




Dashboard   ufs-weather-model   ort-docker-pipeline   Pull Requests (9)   PR-1751   #1


 Status

 Changes

 Console Output

 View as plain text

 Edit Build Information


 Git Build Data

 Open Blue Ocean

 Restart from Stage

 Rebuild

 Pipeline Steps

 Workspaces

## Console Output

Branch indexing

12:46:40 Connecting to <https://api.github.com> using Github App for Jenkins

Obtained tests/ci/Jenkinsfile from

0f12debefdb4c4b90a4e6bebd2526ac39652f908+571a56167af811b73eeafafc389726c5107ad202

(dabf8370983cc2670ae392c2a9911e92aff799f0)

[Pipeline] Start of Pipeline

[Pipeline] stage

[Pipeline] { (ORT)

[Pipeline] parallel

```
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'thr')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'regional_control', TEST_CASE = 'thr')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'mpi')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'dcp')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'regional_control', TEST_CASE = 'dcp')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'rst')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'cpld_control_nowave_noaero_p8', TEST_CASE =
'rst') (hide)
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'bit')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'dbg')
[Pipeline] { (Branch: Matrix - TEST_NAME = 'cpld_control_nowave_noaero_p8', TEST_CASE =
'dbg')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'thr')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'regional_control', TEST_CASE = 'thr')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'mpi')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'dcp')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'regional_control', TEST_CASE = 'dcp')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'rst')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'cpld_control_nowave_noaero_p8', TEST_CASE = 'rst')

[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'bit')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'control_p8', TEST_CASE = 'dbg')
[Pipeline] stage
[Pipeline] { (Matrix - TEST_NAME = 'cpld_control_nowave_noaero_p8', TEST_CASE = 'dbg')

[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
```

```
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
[Pipeline] node
'thr'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'thr'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'mpi'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'dcp'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'dcp'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'rst'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'rst'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'bit'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'dbg'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'dbg'] Still waiting to schedule task
  All nodes of label 'docker-ufs-wm-ci' are offline
'thr'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0dae13c80d8f82b46) in
  /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'rst'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0fdb029553a711e4) in
  /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
```

```
'dcp'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0416fdf069fa797ef) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'thr'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-07a8cab909c3cab68) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'bit'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-09c426404d0febb03) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'mpi'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0250b04e7f93da493) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'dbg'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0856ffc4a2741cc9d) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'dcp'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0cbae2344388b558c) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'rst'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-063a952b12274c228) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
'dbg'] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-02da2a5d7942f3aa1) in
/home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
```

```
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] {
[Pipeline] cleanWs
'thr'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'rst'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'bit'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'mpi'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'dbg'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'thr'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'dcp'] [WS-CLEANUP] Deleting project workspace...
```

```
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] cleanWs
'dcp'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[Pipeline] cleanWs
'dcp'] [WS-CLEANUP] done
'rst'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] checkout
[Pipeline] cleanWs
'dbg'] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] checkout
'rst'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'dcp'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'thr'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'dcp'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'mpi'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'rst'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'thr'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'bit'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'dbg'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'dbg'] The recommended git tool is: /usr/local/git-2.38.0/bin/git
'dcp'] using credential JenkinsePIC
'dbg'] using credential JenkinsEPIC
'dcp'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'rst'] using credential JenkinsePIC
'bit'] using credential JenkinsePIC
```

```
'dbg'] using credential JenkinsEPIC
'dbg'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'tbt'] using credential using credential JenkinsEPIC
'rst'] JenkinsEPIC
'thr'] using credential JenkinsEPIC
'rst'] Cloning the remote Git repository
'mpi'] using credential JenkinsEPIC
'rst'] Cloning with configured refspecs honoured and without tags
'dcp'] using credential JenkinsEPIC
'bit'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'mpi'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'dbg'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
      > /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
      1751 # timeout=10
'thr'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'rst'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'thr'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'dbg'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'dcp'] Cloning the remote Git repository
      Cloning with configured refspecs honoured and without tags
'dbg'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
      > /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
      1751 # timeout=10
      Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
      > /usr/local/git-2.38.0/bin/git --version # timeout=10
      > git --version # 'git version 2.39.3'
      using GIT_ASKPASS to set credentials Github App for Jenkins
      > /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
      https://github.com/ufs-community/ufs-weather-model.git
      +refs/pull/1751/head:refs/remotes/origin/PR-1751
      +refs/heads/develop:refs/remotes/origin/develop # timeout=10
'mpi'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
      > /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
      1751 # timeout=10
      Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
      > /usr/local/git-2.38.0/bin/git --version # timeout=10
      > git --version # 'git version 2.39.3'
```

```
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'thr'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'dcp'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'dcp'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'rst'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
```



```
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'thr'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'bit'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'rst'] Cloning repository https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git init /home/rocky/workspace/odel_ort-docker-pipeline_PR-
1751 # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'dbg'] Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
```

```
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'dcp'] Fetching without tags
Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'dcp'] Fetching without tags
'dcp'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'dcp'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'dcp'] Commit message: "Add new BL_DATE"
First time build. Skipping changelog.
'dcp'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
```

```

> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
'dcp'] Commit message: "Add new BL_DATE"
'bit'] Fetching without tags
'rst'] Fetching without tags
'bit'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'rst'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'bit'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'rst'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'bit'] Commit message: "Add new BL_DATE"
'rst'] Fetching without tags
'rst'] Commit message: "Add new BL_DATE"
'thr'] Fetching without tags
'thr'] Fetching without tags
'rst'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'tbt'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202Merge
succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908

```

```
'thr'] Merging remotes/origin/develop commit 571a56167af811b73eeafbfc389726c5107ad202 into PR
      head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'thr'] into PR head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908
'rst'] Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'thr'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
      Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'thr'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
      Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'rst'] Commit message: "Add new BL_DATE"
'thr'] Commit message: "Add new BL_DATE"
'mpi'] Fetching without tags
'dbg'] Fetching without tags
'thr'] Commit message: "Add new BL_DATE"
'dcp'] > /usr/local/git-2.38.0/bin/git remote # timeout=10
      > /usr/local/git-2.38.0/bin/git submodule init # timeout=10
      > /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
      > /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
      > /usr/local/git-2.38.0/bin/git submodule init # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\
(.+)\.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
      > /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
      > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
```

```

timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'mpi'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #

```

```

timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
'dbg'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
Fetching without tags
'dcp'] > /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\
(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10

```

```
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init--recursive FV3 # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbf389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
```

```
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
```



```

> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbf3c89726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
'␣␣␣'] Merging remotes/origin/developMerging remotes/origin/develop commit
571a56167af811b73eeafbf3c89726c5107ad202 into PR head commit
0f12debefdb4c4b90a4e6bebd2526ac39652f908 commit 571a56167af811b73eeafbf3c89726c5107ad202
into PR head commit 0f12debefdb4c4b90a4e6bebd2526ac39652f908 > /usr/local/git-
2.38.0/bin/git config remote.origin.url https://github.com/ufs-community/ufs-weather-
model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --

```

```
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
'bit'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
```

```
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
```

```
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'mpi']
'dbg']
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/pull/1751/head:refs/remotes/origin/PR-1751 # timeout=10
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
'mpi'] Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'dbg'] Merging remotes/origin/develop commit Merge succeeded, producing
0f12debefdb4c4b90a4e6bebd2526ac39652f908
'dbg'] 571a56167af811b73eeafbfc389726c5107ad202 into PR head commit Checking out Revision
0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'dbg'] 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Merge succeeded, producing 0f12debefdb4c4b90a4e6bebd2526ac39652f908
Checking out Revision 0f12debefdb4c4b90a4e6bebd2526ac39652f908 (PR-1751)
'mpi'] Commit message: "Add new BL_DATE"
'dbg'] Commit message: "Add new BL_DATE"
'dbg'] Commit message: "Add new BL_DATE"
> /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-
community/ufs-weather-model.git # timeout=10
Fetching upstream changes from https://github.com/ufs-community/ufs-weather-model.git
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress --
https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1751/head:refs/remotes/origin/PR-1751
+refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
```

using GIT\_ASKPASS to set credentials Github App for Jenkins

```
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbfc389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path #
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
```

```
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.
(.\+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
```

```
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'mpi'] > /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbf3c389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(
.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
```

```
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.
(.\+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
```



```
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
```

```
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'dbg'] > /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
using GIT_ASKPASS to set credentials Github App for Jenkins
> /usr/local/git-2.38.0/bin/git merge 571a56167af811b73eeafbf389726c5107ad202 #
timeout=10
> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
> /usr/local/git-2.38.0/bin/git checkout -f 0f12debefdb4c4b90a4e6bebd2526ac39652f908 #
timeout=10
> /usr/local/git-2.38.0/bin/git remote # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
> /usr/local/git-2.38.0/bin/git config --get remote.origin.url # timeout=10
> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get-regexp ^submodule\.(.+)\.url # timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.FV3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.FV3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.WW3.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.stochastic_physics.url #
timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get
submodule.stochastic_physics.path # timeout=10
```

```
> /usr/local/git-2.38.0/bin/git config --get submodule.CMakeModules.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMakeModules.path
# timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CMEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CMEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.HYCOM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.HYCOM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.MOM6.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CICE.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CICE.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.CDEPS.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.CDEPS.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.GOCART.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.AQM.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.AQM.path #
timeout=10
> /usr/local/git-2.38.0/bin/git config --get submodule.NOAHMP.url # timeout=10
> /usr/local/git-2.38.0/bin/git config -f .gitmodules --get submodule.NOAHMP.path #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive FV3 # timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'mpi'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-
```

```
interface/CMEPS # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-
interface/CMEPS # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-
interface/HYCOM # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-
interface/CMEPS # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-
interface/HYCOM # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6
# timeout=10
'mpi'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-
interface/CMEPS # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-
interface/HYCOM # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6
# timeout=10
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics
# timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #
timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-
interface/CMEPS # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-
interface/HYCOM # timeout=10
```

```
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #  
timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-  
interface/CMEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics  
# timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #  
timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-  
interface/CMEPS # timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #  
timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-  
interface/CMEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics  
# timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules #  
timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-  
interface/CMEPS # timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-  
interface/CMEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10
```

```
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive HYCOM-  
interface/HYCOM # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive MOM6-interface/MOM6  
# timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
'mpi'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE  
# timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-  
interface/noahmp # timeout=10  
'mpi'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10
```

```
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
'dcp'] > /usr/local/git-2.38.0/bin/git --version # timeout=10  
> git --version # 'git version 2.39.3'  
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CDEPS-  
interface/CDEPS # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10  
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Build)  
[Pipeline] sh  
'dcp'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --  
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag  
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751  
'thr'] > /usr/local/git-2.38.0/bin/git --version # timeout=10  
> git --version # 'git version 2.39.3'  
'dcp'] #1 [internal] load build definition from Dockerfile  
#1 transferring dockerfile: 579B done  
#1 DONE 0.0s  
  
#2 [internal] load .dockerignore  
#2 transferring context: 161B done  
#2 DONE 0.0s  
  
#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
```

```
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
'thr'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'dcp'] #3 DONE 0.8s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 0B / 851B
0.1s
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 0B / 187B
0.1s
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 5.24MB /
28.54MB 0.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 12.58MB /
28.54MB 0.3s
'thr'] #1 [internal] load .dockerignore
#1 transferring context: 161B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'dcp'] #4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.4s done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 19.92MB /
28.54MB 0.4s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.4s
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
```



```
0.4s done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.31MB /
28.54MB 0.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.5s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 0.6s done
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 0B / 151B
0.7s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
0.7s done
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
0.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 9.44MB /
44.66MB 0.9s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 16.78MB /
44.66MB 1.0s
'thr'] #3 DONE 0.5s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e4242caed1e5289077ee4054709 0B / 187B
0.1s
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 0B / 851B
0.1s
'dbp'] ##4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f4
sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 20.92bbe 2.10MB
/ 28.54MB 0.2s
'dcp'] #4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42427MB / 44.66MB 1.1s
'thr'] #4 sha256:7ceaea8da3ed3593559192949aa872d4db97f374caed1e5289077ee4054709 187B / 187B
0.1s done
'dcp'] #4 sha256:576713e7a3dc08c89daa31ff1a0dce5 4.37kB / 4.37kB 1.1s
'dbp'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 25.17MB /
4412ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B.66MB 1.2s
'thr'] #4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89 0.1s done
```

```
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af709daa31ff1a0dce5 4.37kB / 4.37kB 1.1s
done
'thr'] #4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B /
78.90kB4788de3e88b89038e94b6bc08 0B / 165.59MB 0.2s
'dcp'] #4 sha256:b 1.2s
'thr'] 327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB 0.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 6.29MB /
28.54MB 0.3s
'dcp'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 29.36MB /
44.66MB 1.3s
'dbp'] #4 sha256:c46471bef5#4
sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17bab4f42c30ab2eb24e0a4bd31
af7094788de3e88b89038e94b6bc08 11.53MB / 165.59MB 20f2bbe 11.53MB / 28.54MB 0.5s
'dcp'] #4 sha256:345e3491a907bb7c6f1bdd1.5s
'thr'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 37.75MB /
4dcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 13.63MB / 28.54MB 0.6s
'dcp'] #4 s4.66MB 1.5s
'thr'] #4 extracting
sha256:345e3491a907bb7c6f1bdddcf4a94284bha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77e
b7d93f09432b17b20f2bbe 16.78MB / 28.54MB 0.7s
'dcp'] #4 sha256:b327d3abd2a724cb969f28fa262c18b6ddd77eb7d93f09432b17b20f2bbe 0.8s done
'thr'] #4 sha256:9fe62363802f43b5c5753f66c4dd9bd9598a49c556525 5.24MB / 44.66MB 0.7s
'dcp'] 7c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB / 78.90kB 1.4s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.5s
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 42.99MB /
44.66MB 1.7s
'thr'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 18.87MB /
28.54MB 0.8s
'dbp'] #4 sha256:345e3#4
sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6491a907bb7c6f1bdddcf4
a94284b8b6ddd77eb7d93f09432b17b20f2bbe 23.07MB / 28.54MB 0.bc08 20.97MB / 165.59MB 1.9s
'thr'] #4 sha256:b327d3abd2a724cb9699s
'dbp'] #4
sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bdf28fa262c12f43b5c5753f66c4dd9bd
9598a49c556525 44.66MB / 44.66MB 9598a49c556525 9.44MB / 44.66MB 0.9s
'dcp'] #4 sha256:345e3491a907bb7c61.9s done
'dbp'] #4
sha256:112c159de4df28a267685c28f57400c98e9af1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2b
be 28.31d47e7c5b9955493296417b4f1e7e 0B / 2.00kB 1.9s
```

```
'thr'] MB / 28.54MB 1.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 10.49MB /
165.59MB 1.1s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 14.29MB /
44.66MB 1.1s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.2s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 16.78MB /
44.66MB 1.2s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 0B / 151B
1.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 18.87MB /
165.59MB 1.3s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.3s done
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.1s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 19.92MB /
44.66MB 1.4s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 27.26MB /
165.59MB 1.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 23.07MB /
44.66MB 1.5s
'dcp'] #4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.5s done
#5 DONE 2.5s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 33.55MB /
165.59MB 2.6s
'thr'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 27.26MB /
44.66MB 1.7s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.7s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
1.7s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 36.70MB /
165.59MB 1.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 30.41MB /
```

```
44.66MB 1.8s
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.7s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.8s
'dcp'] #4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 2.6s done
'thr'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 2.0s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.9s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 47.19MB /
165.59MB 2.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 38.80MB /
44.66MB 2.2s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 42.99MB /
165.59MB 3.1s
'thr'] #4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 42.99MB /
44.66MB 2.4s
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'dsp'] # > /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 33.55MB /
636.73MB 3.3s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 56.62MB /
165.59MB 2.5s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 51.38MB /
165.59MB 3.6s
'thr'] #4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.7s done
#5 DONE 2.8s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 67.11MB /
165.59MB 2.9s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 60.82MB /
165.59MB 4.1s
```

```
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 75.50MB /
165.59MB 3.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 3.2s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 34.60MB /
636.73MB 3.2s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 0B / 2.00kB
3.4s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 84.93MB /
165.59MB 3.5s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 3.4s done
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 69.21MB /
165.59MB 4.5s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 68.16MB /
636.73MB 4.7s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 93.32MB /
165.59MB 3.8s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 78.64MB /
165.59MB 4.9s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 101.71MB /
165.59MB 4.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 111.15MB /
165.59MB 4.4s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 72.35MB /
636.73MB 4.6s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 90.18MB /
165.59MB 5.4s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 119.54MB /
165.59MB 4.7s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 99.61MB /
165.59MB 5.9s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 101.71MB /
636.73MB 5.9s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 132.12MB /
165.59MB 5.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 141.56MB /
165.59MB 5.4s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 108.00MB /
165.59MB 6.3s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 153.09MB /
165.59MB 5.7s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 105.91MB /
636.73MB 5.9s
```

```
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 119.54MB /
165.59MB 6.9s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 6.1s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 135.27MB /
636.73MB 7.3s
'thr'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 6.4s done
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 128.97MB /
165.59MB 7.4s
'thr'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 138.41MB /
165.59MB 7.7s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 146.80MB /
165.59MB 7.9s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 155.19MB /
165.59MB 8.1s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 139.46MB /
636.73MB 7.1s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 163.58MB /
165.59MB 8.3s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 170.92MB /
636.73MB 8.6s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 8.6s done
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 177.21MB /
636.73MB 8.2s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 210.76MB /
636.73MB 9.6s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 219.15MB /
636.73MB 9.0s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 247.46MB /
636.73MB 10.4s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 257.95MB /
636.73MB 9.8s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 283.12MB /
636.73MB 11.1s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 292.55MB /
636.73MB 10.6s
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 318.77MB /
```

```
636.73MB 11.8s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 327.16MB /
636.73MB 11.4s
'rst'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 356.52MB /
636.73MB 12.7s
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
[Pipeline] }
'dcp'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 390.13MB /
636.73MB 13.4s
'rst'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'thr'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 359.66MB /
636.73MB 12.6s
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'rst'] #1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 579B done
#1 DONE 0.0s

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 426.77MB /
636.73MB 14.1s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 395.31MB /
636.73MB 13.3s
```

```
'rst'] #3 DONE 0.6s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 0.0s
done
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 0B / 851B
0.1s
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 0B / 187B
0.1s
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 3.15MB /
28.54MB 0.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.3s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 5.24MB /
28.54MB 0.4s
'dcp'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
'rst'] #4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 7.34MB /
28.54MB 0.5s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 10.49MB /
28.54MB 0.6s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 4.19MB /
44.66MB 0.6s
'dcp'] #4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 460.32MB /
```



```
636.73MB 15.0s
'tbt'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 14.68#4
sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 429.92MB /
636.73MB 14.3s
'rst'] MB / 28.54MB 0.8s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 10.49MB /
165.59MB 0.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 7.34MB /
44.66MB 0.8s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 18.87MB /
28.54MB 1.0s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 10.49MB /
44.66MB 1.0s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 20.97MB /
28.54MB 1.1s
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 23.07MB /
28.54MB 1.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 13.63MB /
44.66MB 1.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 27.26MB /
28.54MB 1.4s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 22.02MB /
165.59MB 1.4s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 17.83MB /
44.66MB 1.4s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.5s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 20.97MB /
44.66MB 1.5s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.6s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.5s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 26.21MB /
44.66MB 1.7s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.6s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.7s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.7s
```

```
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 31.46MB /
165.59MB 1.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 31.46MB /
44.66MB 1.9s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 495.98MB /
636.73MB 16.4s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 2.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 41.94MB /
165.59MB 2.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 41.94MB /
44.66MB 2.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 2.4s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.9s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 2.5s done
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adb02afc5c3
done
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 0B / 2.00kB
2.5s
#4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.6s done
#5 DONE 2.6s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 2.5s done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 465.57MB /
636.73MB 15.8s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 51.38MB /
165.59MB 2.7s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 34.60MB /
636.73MB 3.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 63.96MB /
165.59MB 3.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 74.45MB /
165.59MB 3.6s
```

```
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 530.58MB /
636.73MB 18.1s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 498.07MB /
636.73MB 17.2s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 88.08MB /
165.59MB 4.1s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 69.21MB /
636.73MB 4.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 98.57MB /
165.59MB 4.5s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 108.00MB /
165.59MB 4.9s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 565.18MB /
636.73MB 19.2s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 118.49MB /
165.59MB 5.3s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 102.76MB /
636.73MB 5.3s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 530.58MB /
636.73MB 18.8s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 127.93MB /
165.59MB 5.7s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 600.83MB /
636.73MB 20.4s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 137.36MB /
165.59MB 6.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 146.80MB /
165.59MB 6.5s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 137.36MB /
636.73MB 6.5s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 155.19MB /
165.59MB 6.8s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 563.09MB /
636.73MB 20.1s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 164.63MB /
165.59MB 7.2s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 169.87MB /
636.73MB 7.5s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 21.7s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 595.59MB /
636.73MB 21.0s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 7.5s done
```

```
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 630.19MB /
636.73MB 21.6s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 204.47MB /
636.73MB 8.3s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 238.03MB /
636.73MB 8.8s
'thr'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 273.68MB /
636.73MB 9.3s
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 311.43MB /
636.73MB 9.8s
'thr'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 343.93MB /
636.73MB 10.2s
'thr'] #1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 579B done
#1 DONE 0.0s

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
#3 DONE 0.4s

#4 [internal] load build context
#4 DONE 0.0s

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#5 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8 done
#5 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adb02afc5c3 0B / 851B
```

```
0.1s
#5 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#5 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#5 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 0B / 187B
0.1s
#5 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 2.10MB /
28.54MB 0.2s
#5 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 381.68MB /
636.73MB 10.7s
'thr'] #5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 5.24MB /
28.54MB 0.3s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 7.34MB /
28.54MB 0.4s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 11.53MB /
28.54MB 0.6s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 6.29MB /
44.66MB 0.6s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 10.49MB /
165.59MB 0.6s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 13.63MB /
28.54MB 0.7s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 15.73MB /
28.54MB 0.8s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 9.44MB /
44.66MB 0.8s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 17.83MB /
28.54MB 0.9s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 18.87MB /
165.59MB 0.9s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 19.92MB /
28.54MB 1.0s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 13.63MB /
```

```
44.66MB 1.0s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 25.5s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 419.43MB /
636.73MB 11.6s
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
3.9s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
0.1s
'thr'] #5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 22.02MB /
28.54MB 1.1s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 24.12MB /
28.54MB 1.2s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 17.83MB /
44.66MB 1.2s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 28.31MB /
165.59MB 1.2s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.4s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 23.07MB /
44.66MB 1.4s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.5s done
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 37.75MB /
165.59MB 1.5s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 28.31MB /
44.66MB 1.6s
#5 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#5 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.6s done
#5 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.6s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 31.46MB /
44.66MB 1.7s
#5 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.6s done
#5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.7s
#5 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.7s done
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 1.8s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 48.23MB /
```

```
165.59MB 1.8s
'thr'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 25.6s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'thr'] #5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 39.85MB /
44.66MB 2.0s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 456.13MB /
636.73MB 12.7s
'thr'] #5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 2.2s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 61.87MB /
165.59MB 2.2s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 2.3s done
#5 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.8s done
#5 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 2.4s done
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 70.25MB /
165.59MB 2.5s
#5 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
#5 ...

#4 [internal] load build context
#4 transferring context: 452.02MB 2.6s done
#4 DONE 2.6s

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#5 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#5 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 79.69MB /
165.59MB 2.8s
'rst'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 490.73MB /
636.73MB 13.5s
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
```

```
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 89.13MB /
165.59MB 3.1s
#5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 34.60MB /
636.73MB 3.1s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 101.71MB /
165.59MB 3.5s
'dbg'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 117.44MB /
165.59MB 3.9s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 523.24MB /
636.73MB 14.3s
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 130.02MB /
165.59MB 4.2s
[Pipeline] }
'dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init--recursive NOAHMP-
interface/noahmp # timeout=10
[Pipeline] // stage
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 69.21MB /
636.73MB 4.3s
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 141.56MB /
165.59MB 4.5s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28+ docker build -
-build-arg test_name= --build-arg build_case= --no-cache --compe0 560.99MB / 636.73MB
15.3s
'dbg'] ress --file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile -
-tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 154.14MB /
165.59MB 4.8s
'dbg'] #1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 579B done
#1 DONE 0.0s

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'thr'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 164.63MB /
```



```
165.59MB 5.1s
'dbg' ] #3 DONE 0.4s
'thr' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 101.71MB /
636.73MB 5.3s
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 596.64MB /
636.73MB 16.1s
'dbg' ]
#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 3.15MB /
28.54MB 0.5s
'thr' ] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 5.7s done
#5 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'dbg' ] #4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 5.24MB /
28.54MB 0.6s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 9.44MB /
165.59MB 0.6s
'thr' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 135.27MB /
636.73MB 6.1s
'dcp' ] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.0s
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 629.15MB /
636.73MB 17.1s
'dbg' ] #4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 8.39MB /
28.54MB 0.8s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 12.58MB /
28.54MB 1.0s
```

```
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 19.92MB /
165.59MB 1.0s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 3.15MB /
44.66MB 1.0s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 15.73MB /
28.54MB 1.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 18.87MB /
28.54MB 1.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 28.31MB /
165.59MB 1.3s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 20.97MB /
28.54MB 1.4s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 24.12MB /
28.54MB 1.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 6.29MB /
44.66MB 1.5s
'thr'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 167.77MB /
636.73MB 7.0s
'dbg'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 27.26MB /
28.54MB 1.6s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 37.75MB /
165.59MB 1.6s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.7s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 47.19MB /
165.59MB 1.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 9.44MB /
44.66MB 1.8s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.1s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.8s done
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.8s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.8s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 55.57MB /
165.59MB 2.0s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
2.0s
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.9s done
```

```
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 12.58MB /
44.66MB 2.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 66.06MB /
165.59MB 2.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 16.78MB /
44.66MB 2.4s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 75.50MB /
165.59MB 2.5s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 201.33MB /
636.73MB 7.9s
'dbg'] #4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.9s done
#4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.7s done
#5 DONE 2.7s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 20.97MB /
44.66MB 2.7s
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 85.98MB /
165.59MB 2.8s
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 26.21MB /
44.66MB 3.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 96.47MB /
165.59MB 3.1s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 31.46MB /
44.66MB 3.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 105.91MB /
165.59MB 3.4s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 32.51MB /
636.73MB 3.4s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 37.75MB /
44.66MB 3.6s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 236.98MB /
636.73MB 9.0s
'dbg'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 116.39MB /
```

```
165.59MB 3.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 41.94MB /
44.66MB 3.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 3.9s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 126.88MB /
165.59MB 4.1s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 4.0s done
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 4.1s done
'thr'] #5 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.0s done
#5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 272.63MB /
636.73MB 10.0s
#5 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
0.1s
'dbg'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 139.46MB /
165.59MB 4.5s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 67.11MB /
636.73MB 4.5s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 149.95MB /
165.59MB 4.8s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 21.3s done
'dbg'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 160.43MB /
165.59MB 5.0s
'rst'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 103.81MB /
636.73MB 5.3s
'mpi'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'dbg'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 5.5s done
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 312.48MB /
636.73MB 11.3s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 137.36MB /
636.73MB 5.9s
[Pipeline] }
'dcp'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.0s
[Pipeline] // stage
'mpi'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
```

```
interface/noahmp # timeout=10
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
'thr'] #5 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
#5 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
#5 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#5 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#5 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'mpi'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 346.03MB /
636.73MB 12.0s
'thr'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.2s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 169.87MB /
636.73MB 6.5s
'mpi'] #1 [internal] load .dockerignore
#1 transferring context: 161B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
#3 DONE 0.3s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 384.83MB /
636.73MB 12.7s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 203.42MB /
636.73MB 7.2s
'dcp'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
12.1s done
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
```

```
'mpi'] #4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 1.05MB /
28.54MB 0.2s
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 5.24MB /
28.54MB 0.3s
'dcp'] #4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
'thr'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2#4 extracting
sha256:a6d2877f8486e17376cf7c1d798589425ed35a339bbe 8.39MB / 28.54MB 0.4s
'thr'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d3085c35c43eee29875c28e0 11.4s
done
'mpi'] #4 extracting sha256:112c159de4df28a267685c28f57493f09432b17b20f2bbe 11.53MB / 28.54MB
0.5s
'thr'] 00c98e9ad47e7c5b9955493296417b4f1e7e done
'mpi'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 13.63MB /
28.54MB 0.6s
'thr'] #4 sha256:b327d3ab#4 DONE 37.4s

'thr'] #6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'mpi'] 2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 3.15MB / 44.66MB 0.6s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 16.78MB /
28.54MB 0.7s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 8.39MB /
165.59MB 0.7s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 18.87MB /
28.54MB 0.8s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 417.33MB /
636.73MB 13.7s
'dcp'] #4 DONE 38.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'mpi'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 24.12MB /
28.54MB 1.0s
```

```
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 7.34MB /
44.66MB 1.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 16.78MB /
165.59MB 1.0s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 26.21MB /
28.54MB 1.1s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.2s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 11.53MB /
44.66MB 1.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 25.17MB /
165.59MB 1.3s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.3s done
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.3s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.3s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
1.4s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 235.93MB /
636.73MB 8.6s
'mpi' ] #4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.4s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 17.83MB /
44.66MB 1.7s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 38.80MB /
165.59MB 1.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 22.02MB /
44.66MB 1.9s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 27.26MB /
44.66MB 2.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 51.38MB /
165.59MB 2.2s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.8s done
'thr' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 449.84MB /
636.73MB 14.7s
'mpi' ] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 30.41MB /
```

```
44.66MB 2.3s
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'dbg'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
'mpi'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 33.55MB /
44.66MB 2.5s
#4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.6s done
#5 DONE 2.6s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 37.75MB /
44.66MB 2.7s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 63.96MB /
165.59MB 2.7s
'dbg'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
0.1s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 268.44MB /
636.73MB 10.2s
'mpi'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 3.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 72.35MB /
165.59MB 3.0s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 32.51MB /
636.73MB 3.2s
'rst'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'mpi'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 81.79MB /
165.59MB 3.4s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 484.44MB /
636.73MB 16.1s
'mpi'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 3.7s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 91.23MB /
165.59MB 3.8s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 3.8s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 100.66MB /
```



```
165.59MB 4.2s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 66.06MB /
636.73MB 4.3s
'dbg'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.6s done
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 304.09MB /
636.73MB 11.6s
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'mpi'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 109.05MB /
165.59MB 4.6s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 518.00MB /
636.73MB 17.3s
'mpi'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 118.49MB /
165.59MB 5.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 126.88MB /
165.59MB 5.3s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 98.57MB /
636.73MB 5.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 140.51MB /
165.59MB 5.7s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 553.65MB /
636.73MB 18.7s
'mpi'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 155.19MB /
165.59MB 6.1s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 337.64MB /
636.73MB 13.0s
'mpi'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 163.58MB /
165.59MB 6.3s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 134.22MB /
636.73MB 6.6s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 6.7s done
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 377.49MB /
636.73MB 14.2s
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 589.30MB /
636.73MB 19.8s
'dbg'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 414.19MB /
```

```
636.73MB 15.0s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 166.72MB /
636.73MB 7.8s
'rst' ] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.1s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 201.33MB /
636.73MB 8.7s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 449.84MB /
636.73MB 15.9s
'thr' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 621.81MB /
636.73MB 21.0s
'rst' ] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
11.3s done
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 235.93MB /
636.73MB 9.3s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 482.34MB /
636.73MB 16.7s
'rst' ] #4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 275.78MB /
636.73MB 10.0s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 518.00MB /
636.73MB 17.5s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 309.33MB /
636.73MB 10.6s
'rst' ] #4 DONE 33.7s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'mpi' ] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
0.1s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 553.65MB /
636.73MB 18.3s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 341.84MB /
636.73MB 11.2s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 591.40MB /
636.73MB 19.1s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 379.58MB /
636.73MB 11.9s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 623.90MB /
636.73MB 19.7s
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 413.14MB /
```

```
636.73MB 12.7s
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
'thr'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 25.3s done
#5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'mpi'] #4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 449.84MB /
636.73MB 13.2s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 485.49MB /
636.73MB 13.7s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 525.34MB /
636.73MB 14.3s
'dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'mpi'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 560.99MB /
636.73MB 14.8s
'dcp'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'mpi'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 593.49MB /
636.73MB 15.2s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
'mpi'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 15.8s
[Pipeline] sh
'dcp'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 579B done
#1 DONE 0.0s

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.0s
```

```
#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'dbg' ] > /usr/local/git-2.38.0/bin/git --version # timeout=10
      > git --version # 'git version 2.39.3'
'dcp' ] #3 DONE 0.2s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 2.10MB /
28.54MB 0.1s
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e4242caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.1s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.1s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 10.49MB /
28.54MB 0.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 15.73MB /
28.54MB 0.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 4.19MB /
44.66MB 0.3s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 20.97MB /
28.54MB 0.4s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 10.49MB /
44.66MB 0.4s
[Pipeline] }
'dcp' ] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 25.17MB /
28.54MB 0.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 14.68MB /
44.66MB 0.5s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 0.6s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 20.97MB /
44.66MB 0.6s
[Pipeline] // stage
[Pipeline] stage
```

```
[Pipeline] { (Build)
'dcp' ] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 0.6s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 27.26MB /
44.66MB 0.7s
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 0B / 151B
0.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 0.8s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
0.8s done
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
0.8s
[Pipeline] sh
'dcp' ] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 10.49MB /
165.59MB 0.9s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 39.85MB /
44.66MB 0.9s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 28.31MB /
165.59MB 1.2s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 1.2s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
1.2s
'dbg' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 24.1s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
0.1s
'dbg' ] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'dcp' ] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 36.70MB /
165.59MB 1.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 1.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 46.14MB /
165.59MB 1.4s
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.4s
'dbg' ] #1 [internal] load .dockerignore
#1 transferring context: 161B done
#1 DONE 0.0s
```

```
#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'thr'] #5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 65.01MB /
165.59MB 1.6s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 1.4s done
#4 extracting sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.9s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 1.4s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
1.6s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 1.5s done
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'rst'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'bit'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 76.55MB /
165.59MB 1.8s
'dbg'] #3 DONE 0.5s

#4 [internal] load build context
#4 DONE 0.0s

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#5 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
#5 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 0B / 187B
0.1s
#5 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
```

```
#5 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#5 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 0B / 851B
0.1s
'dcp' ] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 90.18MB /
165.59MB 2.0s
[Pipeline] }
[Pipeline] // stage
'dbg' ] #5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 2.10MB /
28.54MB 0.2s
#5 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#5 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 4.19MB /
28.54MB 0.3s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 6.29MB /
28.54MB 0.4s
'dcp' ] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 99.61MB /
165.59MB 2.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 109.05MB /
165.59MB 2.5s
[Pipeline] }
[Pipeline] stage
[Pipeline] { (Build)
'dbg' ] #5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 8.39MB /
28.54MB 0.5s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 4.19MB /
44.66MB 0.5s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 10.49MB /
28.54MB 0.6s
'dcp' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 34.60MB /
636.73MB 2.6s
#4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.6s done
#5 DONE 2.7s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
```

```
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
[Pipeline] // stage
[Pipeline] stage
'dbg' #5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 13.63MB /
28.54MB 0.8s (Build)
#5 sha256:c46471bef5ab4f42c30ab2eb2[Pipeline] { (Build)
'dbg' 4e0a4bd31af7094788de3e88b89038e94b6bc08 9.44MB / 165.59MB 0.8s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 9.44MB /
44.66MB 0.8s
#5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 15.73MB /
28.54MB 0.9s
'dcp' #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 121.63MB /
165.59MB 2.9s
[Pipeline] sh
'dbg' #5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 13.63MB /
44.66MB 1.0s
#5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 18.87MB /
28.54MB 1.1s
[Pipeline] sh
'dcp' #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 131.07MB /
165.59MB 3.2s
'mpi' #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 19.6s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'rst' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'dbg' #5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 22.02MB /
28.54MB 1.3s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 17.83MB /
165.59MB 1.3s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 19.92MB /
44.66MB 1.3s
#5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 24.12MB /
28.54MB 1.4s
#5 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 26.21MB /
28.54MB 1.5s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 24.12MB /
44.66MB 1.5s
'bit' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --
file /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751/tests/ci/Dockerfile --tag
ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1751
'rst' #1 [internal] load .dockerignore
#1 transferring context:
```



```
#1 transferring context: 161B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'dbg' #5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.7s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 29.36MB /
44.66MB 1.7s
'bit' #1 [internal] load .dockerignore
'dcp' #1 transferring context: #4
sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 141.56MB /
165.59MB 3.6s
'bit' 161B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2
'dbg' #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 27.26MB /
165.59MB 1.8s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 32.51MB /
44.66MB 1.8s
#5 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.8s done
#5 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.1s
#5 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.9s
'dcp' #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 150.99MB /
165.59MB 3.9s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 69.21MB /
636.73MB 3.9s
'bit' #3 DONE 0.4s
'rst' #3 DONE 0.3s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
```

```
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.2s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.2s
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 3.15MB /
28.54MB 0.3s
'dbg' ] #5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 37.75MB /
44.66MB 2.0s
#5 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7cecdc5ee1ebcb7b5ac742fa43 151B / 151B
1.9s done
#5 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 2.0s done
#5 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
2.0s
#5 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 2.0s done
#5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
2.1s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 35.65MB /
165.59MB 2.2s
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 41.94MB /
44.66MB 2.2s
'dcp' ] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6b
'dcp' ] #4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v1.2@sc08 160.43MB /
165.59MB 4.3s
'bit' ] sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
#4 resolve docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 0.0s
done
#4 sha256:1920f81f65562ffe91e05bac30c47f47183e17f041ca53241f023834438d7738 6.96kB /
6.96kB done
#4 sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 0B / 28.54MB
0.1s
```

```
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 0B / 165.59MB
0.1s
#4 sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8 2.41kB /
2.41kB done
#4 sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3 851B / 851B
0.1s done
#4 sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709 187B / 187B
0.1s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 0B / 44.66MB
0.2s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 6.29MB /
28.54MB 0.5s
'bit'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 4.19MB /
44.66MB 0.5s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 9.44MB /
28.54MB 0.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 4.19MB /
44.66MB 0.7s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 12.58MB /
28.54MB 0.8s
'dbg'] #5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 2.6s
#5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 45.09MB /
165.59MB 2.8s
#5 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.8s done
'bit'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 7.34MB /
44.66MB 0.7s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 14.68MB /
28.54MB 0.9s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 16.78MB /
28.54MB 1.0s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 7.34MB /
44.66MB 1.0s
'dbg'] #5 ...

#4 [internal] load build context
#4 transferring context: 452.02MB 2.8s done
#4 DONE 2.9s

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dc621ffed83af5ca358c38a8
```

```
#5 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adb02afc5c3
done
#5 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
#5 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 3.0s done
#5 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 0B / 2.00kB
3.1s
'bit'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 10.49MB /
44.66MB 0.9s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 2.10MB /
28.54MB 1.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 8.39MB /
165.59MB 1.0s
'dcp'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 5.0s done
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
0.1s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 19.92MB /
28.54MB 1.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 22.02MB /
28.54MB 1.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 10.49MB /
44.66MB 1.4s
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 4.19MB /
28.54MB 1.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 15.73MB /
44.66MB 1.2s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 25.17MB /
28.54MB 1.5s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 8.39MB /
165.59MB 1.5s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 53.48MB /
165.59MB 3.4s
#5 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 3.3s done
'bit'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 18.87MB /
44.66MB 1.4s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 6.29MB /
28.54MB 1.5s
'rst'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 27.26MB /
28.54MB 1.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 14.68MB /
44.66MB 1.7s
```

```
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 1.8s done
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 0B / 151B
1.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 17.83MB /
44.66MB 1.9s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
1.9s done
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
1.9s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 18.87MB /
165.59MB 1.7s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 24.12MB /
44.66MB 1.7s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 8.39MB /
28.54MB 1.8s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 22.02MB /
44.66MB 2.1s
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 2.0s done
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
2.1s
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 10.49MB /
28.54MB 2.0s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 28.31MB /
44.66MB 2.0s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 101.71MB /
636.73MB 5.9s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 61.87MB /
165.59MB 4.1s
'rst'] #4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 2.1s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
2.2s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 25.17MB /
44.66MB 2.3s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 28.31MB /
165.59MB 2.2s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 12.58MB /
28.54MB 2.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 31.46MB /
44.66MB 2.3s
'dbg'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
```

```
5.2s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 17.83MB /
165.59MB 2.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 28.31MB /
44.66MB 2.6s
#4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.6s done
#5 DONE 2.6s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#4 extracting sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.8s done
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 14.68MB /
28.54MB 2.5s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 2.5s
'bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'dbg'] #5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43 >
/usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-
interface/noahmp # timeout=10
'thr'] eee29875c28e0 10.1s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 31.46MB /
44.66MB 2.8s
#4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'bit'] #4 ...

#5 [internal] load build context
#5 transferring context: 452.02MB 2.6s done
#5 DONE 2.7s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-
stack:v1.2@sha256:f84ccf2f58f2af4fe9bc2471d6a00fedcffe64dcdc621ffed83af5ca358c38a8
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 17.83MB /
28.54MB 2.8s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 37.75MB /
```

```
165.59MB 2.8s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 37.75MB /
44.66MB 2.8s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 19.92MB /
28.54MB 2.9s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 34.60MB /
44.66MB 3.0s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 27.26MB /
165.59MB 3.2s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 71.30MB /
165.59MB 4.9s
#5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 33.55MB /
636.73MB 4.9s
'bit'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 40.89MB /
44.66MB 3.0s
#4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 22.02MB /
28.54MB 3.1s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 38.80MB /
44.66MB 3.3s
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 25.17MB /
28.54MB 3.3s
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.04MB /
44.66MB 3.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 46.14MB /
165.59MB 3.4s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 42.99MB /
44.66MB 3.6s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 79.69MB /
165.59MB 5.7s
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 3.5s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 35.65MB /
165.59MB 3.8s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 56.62MB /
165.59MB 3.9s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 46.14MB /
165.59MB 4.2s
'thr'] #5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
12.1s done
'bit'] #4 sha256:345e3491a907bb7c6f1bdddcf4a94284b8b6ddd77eb7d93f09432b17b20f2bbe 28.54MB /
28.54MB 4.2s done
#4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 4.1s done
#4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 0B / 4.37kB
```

```
4.2s
#4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 0B / 151B
4.2s
'rst'] #4 sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525 44.66MB /
44.66MB 4.2s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 33.55MB /
636.73MB 4.3s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 4.3s done
'bit'] #4 sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43 151B / 151B
4.2s done
#4 extracting sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 0B / 78.90kB
4.3s
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 66.06MB /
165.59MB 4.4s
#4 sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b 78.90kB /
78.90kB 4.3s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 0B / 636.73MB
4.4s
'mpi'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 88.08MB /
165.59MB 6.5s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 55.57MB /
165.59MB 4.6s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 139.46MB /
636.73MB 8.2s
'thr'] #5 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
'bit'] #4 sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5 4.37kB /
4.37kB 4.5s done
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 0B / 2.00kB
4.5s
#4 sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e 2.00kB /
2.00kB 4.5s done
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 65.01MB /
165.59MB 5.0s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 74.45MB /
165.59MB 4.9s
#4 extracting sha256:345e3491a907bb7c6f1bddd4a94284b8b6ddd77eb7d93f09432b17b20f2bbe
0.7s done
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 96.47MB /
165.59MB 7.2s
```



```
'dcp'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.0s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
'bit'] #4 extracting sha256:57671312ef6fdbecf340e5fed0fb0863350cd806c92b1fdd7978adbd02afc5c3
done
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
#4 extracting sha256:5e9250ddb7d0fa6d13302c7c3e6a0aa40390e42424caed1e5289077ee4054709
done
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 73.40MB /
165.59MB 5.4s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 84.93MB /
165.59MB 5.5s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 82.8b6bc08
105.91MB / 165.59MB 7.8s
'rst'] 4MB / 165.59MB 5.8s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 171.97MB /
636.73MB 9.7s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 67.11MB /
636.73MB 8.1s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 91.23MB /
165.59MB 6.2s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 94.37MB /
165.59MB 6.1s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 115.34MB /
165.59MB 8.4s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 67.11MB /
636.73MB 6.6s
'dbg'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.3s
'tbt'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 99.#6 DONE
25.3s

'rst'] #7 [3/3] WORKDIR /home/builder/ufs-we61MB / 165.59MB 6.7s
'thr'] ather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
'dcp'] #6 DONE 23.1s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 2.8s
```

```
#8 exporting to image
#8 exporting layers
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 104.86MB /
165.59MB 6.8s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 36.70MB /
636.73MB 6.8s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 108.00MB /
165.59MB 7.2s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 124.78MB /
165.59MB 9.0s
'dcp'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.6s done
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'thr'] #5 DONE 40.3s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 114.29MB /
165.59MB 7.4s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 116.39MB /
165.59MB 7.7s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 134.22MB /
165.59MB 9.6s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 204.47MB /
636.73MB 11.6s
'thr'] #8 exporting layers 2.3s done
#8 writing image sha256:7883e074b1f82973183442bfd4abbd093a8bb50c091152dbec3acd2d7cfc558a
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
'dbg'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
11.5s done
[Pipeline] stage
[Pipeline] { (Stage Test Data)
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 122.68MB /
165.59MB 7.9s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 124.78MB /
165.59MB 8.2s
```

```
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 142.61MB /
165.59MB 10.1s
'dbg'] #4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
[Pipeline] sh
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 99.61MB /
636.73MB 10.5s
'thr'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 131.07MB /
165.59MB 8.5s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 70.25MB /
636.73MB 8.7s
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 150.99MB /
165.59MB 10.6s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 135.27MB /
165.59MB 8.8s
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 100.66MB /
636.73MB 8.8s
'dcp'] #8 exporting layers 2.3s done
#8 writing image sha256:e4ce348fb90fb1f54e4feeca9d7669874d259c1c152574c74942f8242ea6386b
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
'thr'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
'dbg'] #5 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 159.38MB /
165.59MB 11.1s
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 140.51MB /
165.59MB 9.1s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 144.70MB /
165.59MB 9.4s
[Pipeline] sh
'thr'] df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'dbg'] #4 DONE 37.2s
```

```
#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'dcp'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'mpi'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.2s
'bit'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 148.90MB /
165.59MB 9.7s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 156.24MB /
165.59MB 10.0s
'dcp'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 238.03MB /
636.73MB 14.0s
'dbg'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc0#5
sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788 158.33MB / 165.59MB 10.3s
'dbg'] 8de3e88b89038e94b6bc08 165.59MB / 165.59MB 12.0s done
#5 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
0.1s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 10.5s
'dcp'] df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 133.17MB /
636.73MB 12.8s
'mpi'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
11.3s done
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
#4 DONE 31.3s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 106.95MB /
636.73MB 10.8s
'rst'] #4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 10.8s done
#4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
'bit'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
#4 sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08 165.59MB /
165.59MB 11.0s done
```

```
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 133.17MB /
636.73MB 11.3s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 271.58MB /
636.73MB 15.9s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 139.46MB /
636.73MB 12.2s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 166.72MB /
636.73MB 14.9s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 166.72MB /
636.73MB 13.4s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 173.02MB /
636.73MB 13.7s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 304.09MB /
636.73MB 17.7s
'dbg'] #5 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
#5 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
'rst'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
4.1s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
'bit'] #4 extracting sha256:c46471bef5ab4f42c30ab2eb24e0a4bd31af7094788de3e88b89038e94b6bc08
3.8s done
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 206.57MB /
636.73MB 15.2s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 201.33MB /
636.73MB 17.5s
#5 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.6s done
#5 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#5 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#5 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 336.59MB /
636.73MB 20.5s
'rst'] #6 DONE 26.3s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
```

```
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 241.17MB /
636.73MB 16.6s
#4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.8s done
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
'rst'] #4 extracting sha256:b327d3abd2a724cb969f28fa262c12f43b5c5753f66c4dd9bd9598a49c556525
1.7s done
#4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 199.23MB /
636.73MB 16.9s
#4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'bit'] #4 extracting sha256:109d28d9515722abbe5052b38a92b71b46ee3a7ceedc5ee1ebcb7b5ac742fa43
done
#4 extracting sha256:7ceaea8da3ed3593559192949aa872d4db97f37e7a3dc08c89daa31ff1a0dce5
done
#4 extracting sha256:9fe62363807c3c9022f6538307c2698323b08ca505ac5f27596f45259956a66b
done
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 235.93MB /
636.73MB 19.4s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 274.73MB /
636.73MB 18.1s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 369.10MB /
636.73MB 22.6s
'rst'] #8 exporting layers 2.3s done
#8 writing image sha256:b53f4de62bfe74035f84156079b3fbfd3d2bdc67047b691f4e230d98249d391e
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 269.48MB /
636.73MB 21.3s (Stage Test Data)
[Pipeline] { (Stage Test Data)
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 232.78MB /
636.73MB 19.3s
[Pipeline] sh
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 307.23MB /
636.73MB 19.6s
'rst'] + docker volume rm --force DataVolume
```

DataVolume

```
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
```

Unable to find image 'noaaepic/input-data:20221101' locally

20221101: Pulling from noaaepic/input-data

df20fa9351a1: Pulling fs layer

1ff3978cbb81: Pulling fs layer

df20fa9351a1: Verifying Checksum

df20fa9351a1: Download complete

df20fa9351a1: Pull complete

```
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 402.65MB /
636.73MB 24.6s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 301.99MB /
636.73MB 23.3s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 267.39MB /
636.73MB 21.6s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 340.79MB /
636.73MB 21.5s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 435.16MB /
636.73MB 26.9s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 373.29MB /
636.73MB 23.5s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 336.59MB /
636.73MB 25.7s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 300.94MB /
636.73MB 24.3s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 405.80MB /
636.73MB 25.5s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 467.66MB /
636.73MB 29.7s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 369.10MB /
636.73MB 28.2s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 333.45MB /
636.73MB 26.7s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 500.17MB /
636.73MB 31.8s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 438.30MB /
636.73MB 27.7s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 369.10MB /
636.73MB 28.7s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 402.65MB /
636.73MB 30.5s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 532.68MB /
636.73MB 33.9s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 401.60MB /
```

```
636.73MB 30.5s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 471.86MB /
636.73MB 30.0s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 436.21MB /
636.73MB 32.7s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 434.11MB /
636.73MB 32.4s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 504.37MB /
636.73MB 32.1s
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 469.76MB /
636.73MB 34.7s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 566.23MB /
636.73MB 36.5s
'thr'] #6 DONE 23.2s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
#8 exporting layers 2.3s done
#8 writing image sha256:512713dfe230ffa61a0808ed69c424625a03a1ace352314f84f454361f55b3df
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'thr'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'dbg'] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 503.32MB /
636.73MB 36.5s
'dcp'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 600.83MB /
636.73MB 38.5s
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 467.66MB /
636.73MB 34.6s
'bit'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 537.92MB /
636.73MB 34.4s
'thr'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
```



```
1ff3978cbb81: Pulling fs layer
df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'dbg' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 535.82MB /
636.73MB 38.1s
'dcp' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 634.39MB /
636.73MB 40.4s
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 500.17MB /
636.73MB 36.7s
'bit' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 571.47MB /
636.73MB 37.0s
'dbg' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 568.33MB /
636.73MB 39.9s
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 532.68MB /
636.73MB 38.8s
'bit' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 606.08MB /
636.73MB 39.3s
'dbg' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 600.83MB /
636.73MB 42.1s
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 565.18MB /
636.73MB 40.6s
'dcp' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 44.1s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'dbg' ] #6 DONE 27.3s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
#8 exporting layers 2.3s done
#8 writing image sha256:b2ce37dc8903ef456e928897fce80b3904f55bcc40d92ed7463b89a86324739b
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
'bit' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 41.4s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
0.1s
[Pipeline] stage
```

```
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'dbg' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 635.44MB /
636.73MB 44.3s
'dbg' ] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'rst' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 597.69MB /
636.73MB 42.4s
'dbg' ] #5 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 44.6s done
#5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'mpi' ] #6 DONE 26.6s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 2.7s

#8 exporting to image
#8 exporting layers
#8 exporting layers 2.3s done
#8 writing image sha256:645459105a69a55b37885cbb417b4600358db9269afc4ce5ebc1dc2e0f4a2ccb
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
'dbg' ] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'dbg' ] df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'mpi' ] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'mpi' ] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 20221101:
Pulling from noaaepic/input-data
'rst' ] df20fa9351a1: Pulling fs630.19MB / 636.73MB 43.8s
'mpi' ] layer
1ff3978cbb81: Pulling fs layer
```

```
df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'rst'] #4 sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0 636.73MB /
636.73MB 44.7s done
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
'dcp'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'bit'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'dbg'] #5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.1s
'rst'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
5.0s
'dcp'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.1s
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
11.5s done
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
#4 DONE 55.9s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'bit'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.2s
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.9s done
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
#4 DONE 52.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'dbg'] #5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.2s
#5 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
12.0s done
#5 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
#5 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
#5 DONE 56.9s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'rst'] #4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
10.1s
```

```
#4 extracting sha256:a6d2877f8486e17376cf7c1d798589425ed35a3393085c35c43eee29875c28e0
11.4s done
#4 extracting sha256:112c159de4df28a267685c28f57400c98e9ad47e7c5b9955493296417b4f1e7e
done
#4 DONE 56.5s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
'dcp'] #6 DONE 20.1s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
#8 exporting layers 2.2s done
#8 writing image sha256:69e47860052c0e5a51851bf27b35ebf11abc329bb8f79c94fa8a70be329f812a
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
'bit'] #6 DONE 20.0s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'dcp'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'bit'] #8 exporting layers 2.3s done
#8 writing image sha256:768f83dd5cc8e758ad8aa95876500f4be2951f5f98805692fe4aa235fd4a5cb9
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.4s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
```

```
[Pipeline] sh
'dcp'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
'bit'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
'dcp'] df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'bit'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'dbg'] #6 DONE 20.3s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
#8 exporting layers 2.3s done
#8 writing image sha256:952cd2c3277263e0271c9095d282a678a2c55e7e49579bb0db8841be3ec8e477
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'rst'] #6 DONE 20.1s

#7 [3/3] WORKDIR /home/builder/ufs-weather-model/tests
#7 DONE 0.1s

#8 exporting to image
#8 exporting layers
'dbg'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
```

```
Unable to find image 'noaaepic/input-data:20221101' locally
'rst'] #8 exporting layers 2.3s done
#8 writing image sha256:5653957a3c2e79fd2aad7e3073c03980d821122b9cebb1345e3e0b4e23406928
done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
'dbg'] 20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
[Pipeline] }
[Pipeline] // stage
'dbg'] df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
'rst'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
Unable to find image 'noaaepic/input-data:20221101' locally
20221101: Pulling from noaaepic/input-data
df20fa9351a1: Pulling fs layer
1ff3978cbb81: Pulling fs layer
df20fa9351a1: Verifying Checksum
df20fa9351a1: Download complete
df20fa9351a1: Pull complete
'bit'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'rst'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'dbg'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'rst'] 1ff3978cbb81: Retrying in 10 seconds
1ff3978cbb81: Retrying in 9 seconds
```

1ff3978cbb81: Retrying in 8 seconds  
1ff3978cbb81: Retrying in 7 seconds  
1ff3978cbb81: Retrying in 6 seconds  
1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds  
'thr'] 1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
'rst'] 1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds  
1ff3978cbb81: Retrying in 1 second  
'rst'] 1ff3978cbb81: Retrying in 1 second  
'thr'] 1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds  
'bit'] 1ff3978cbb81: Retrying in 10 seconds  
1ff3978cbb81: Retrying in 9 seconds  
1ff3978cbb81: Retrying in 8 seconds  
1ff3978cbb81: Retrying in 7 seconds  
1ff3978cbb81: Retrying in 6 seconds  
'thr'] 1ff3978cbb81: Retrying in 1 second  
'bit'] 1ff3978cbb81: Retrying in 5 seconds  
'thr'] 1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds  
1ff3978cbb81: Retrying in 1 second  
'bit'] 1ff3978cbb81: Retrying in 4 seconds  
'dbg'] 1ff3978cbb81: Retrying in 10 seconds  
1ff3978cbb81: Retrying in 9 seconds  
1ff3978cbb81: Retrying in 8 seconds  
1ff3978cbb81: Retrying in 7 seconds  
1ff3978cbb81: Retrying in 6 seconds  
1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds  
1ff3978cbb81: Retrying in 1 second  
'dcp'] 1ff3978cbb81: Retrying in 5 seconds  
1ff3978cbb81: Retrying in 4 seconds  
1ff3978cbb81: Retrying in 3 seconds  
1ff3978cbb81: Retrying in 2 seconds

```
1ff3978cbb81: Retrying in 1 second
'bit'] 1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'dbg'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'mpi'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'dcp'] 1ff3978cbb81: Retrying in 5 seconds
1ff3978cbb81: Retrying in 4 seconds
1ff3978cbb81: Retrying in 3 seconds
1ff3978cbb81: Retrying in 2 seconds
1ff3978cbb81: Retrying in 1 second
'thr'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'dcp'] 1ff3978cbb81: Download complete
'rst'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'thr'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'dcp'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'thr'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'dbg'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'dcp'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'bit'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'dbg'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'mpi'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
'rst'] 1ff3978cbb81: Verifying Checksum
1ff3978cbb81: Download complete
```



```
'rst'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'thr'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'dbg'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'dcp'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'bit'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'dbg'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'rst'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'mpi'] 1ff3978cbb81: Pull complete
Digest: sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Status: Downloaded newer image for noaaepic/input-data:20221101
'thr'] 3c98bf45bea9fa332752490182e85a18206211205d7048ca29e82e9a4c386f80
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'thr'] + docker run --rm --env test_name=regional_control --env run_case=thr --workdir
/home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSFV3GFS
--interactive --shm-size=16gb ci-test-weather
1b455e4e7d0d
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: regional_control
cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'dcp'] b564317c0834c328f26ae4c8d54310a80306186999f8c498cc7896e5258480b0
[Pipeline] }
```

```
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'dcp'] + docker run --rm --env test_name=control_p8 --env run_case=dcp --workdir
/home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSFV3GFS
--interactive --shm-size=16gb ci-test-weather
e6917e877268
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: control_p8
cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'thr'] done compiling std
cases to run: std_base thr
Running test for std_base
    THRD: 1; INPES: 10; JNPES: 11; TPN: 40
+ echo PID=15776
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=regional_control
+ TEST_NAME=regional_control
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: regional_control'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
```

```
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
```

```
model/tests/logs/OpnReqTests_regional_control_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
```

```
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
```

```
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thrld=3
++ JNPES_thrld=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrld=2
++ INPES_cpl_thrld=3
++ JNPES_cpl_thrld=4
++ WPG_cpl_thrld=6
++ OCN_tasks_cpl_thrld=20
++ ICE_tasks_cpl_thrld=10
++ WAV_tasks_cpl_thrld=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/regional_control
```

```

++ export 'TEST_DESCR=Compare FV3 regional control results with previous trunk version'
++ TEST_DESCR='Compare FV3 regional control results with previous trunk version'
++ export CNTL_DIR=regional_control
++ CNTL_DIR=regional_control
++ export 'LIST_FILES=dynf000.nc                dynf006.nc
phyf000.nc                phyf006.nc                PRSLEV.GrbF00
PRSLEV.GrbF00                NATLEV.GrbF00                NATLEV.GrbF06'
++ LIST_FILES='dynf000.nc                dynf006.nc                phyf000.nc
phyf006.nc                PRSLEV.GrbF00                PRSLEV.GrbF06
NATLEV.GrbF00                NATLEV.GrbF06'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.

```

```
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
```





```
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
```

```
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
```

```
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1
```

```
:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5" '
++
FSCAV_AERO="'*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6
", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1
:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5" '
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNSFCLAY=.false.
++ DO_MYNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
```

```
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
```

```
++ FNMSKH_control='\'global_slmask.t1534.3072.1536.grb\'\'\'
++ export 'FNABSC='\'global_mxsnoalb.uariz.t126.384.190.rg.grb\'\'\'
++ FNABSC='\'global_mxsnoalb.uariz.t126.384.190.rg.grb\'\'\'
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
```

```
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
```



```

++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'

```

```
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export FV3_RUN=regional_run.IN  
++ FV3_RUN=regional_run.IN  
++ export OZ_PHYS_OLD=.false.  
++ OZ_PHYS_OLD=.false.  
++ export OZ_PHYS_NEW=.true.  
++ OZ_PHYS_NEW=.true.  
++ export H2O_PHYS=.true.  
++ H2O_PHYS=.true.  
++ export HYBEDMF=.false.  
++ HYBEDMF=.false.  
++ export 'RESTART_INTERVAL=3 -1'
```

```
++ RESTART_INTERVAL='3 -1'  
++ export WRITE_DOPOST=.true.  
++ WRITE_DOPOST=.true.  
++ export POSTAPP=lam  
++ POSTAPP=lam  
++ export CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km  
++ CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km  
++ export INPUT_NML=regional.nml.IN  
++ INPUT_NML=regional.nml.IN  
++ export MODEL_CONFIGURE=model_configure_regional.IN  
++ MODEL_CONFIGURE=model_configure_regional.IN  
++ export DIAG_TABLE=diag_table_lam  
++ DIAG_TABLE=diag_table_lam  
++ export FIELD_TABLE=field_table_regional  
++ FIELD_TABLE=field_table_regional  
++ export WLCLK=15  
++ WLCLK=15  
++ export FHMAX=6  
++ FHMAX=6  
++ export INPES=10  
++ INPES=10  
++ export JNPES=11  
++ JNPES=11  
++ export 'OUTPUT_FH=3 -1'  
++ OUTPUT_FH='3 -1'  
++ WRITE_GROUP=1  
++ WRTTASK_PER_GROUP=10  
++ NTILES=1  
+ remove_fail_test  
+ echo 'Removing test failure flag file for regional_control_gnu_std_base'  
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base  
+ export INPUT_DIR=regional_control  
+ INPUT_DIR=regional_control  
+ export  
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std  
_base  
+  
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std  
_base  
+ export CNTL_DIR=regional_control_std_base  
+ CNTL_DIR=regional_control_std_base  
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7  
+ export JBNME=opnReqTest_7_std_base  
+ JBNME=opnReqTest_7_std_base
```

```

++ date +%s
+ echo -n 'regional_control_gnu, 1686144698,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_regional_control_gnu_std_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_regional_control_gnu_std_base.log
+ echo 'Test std_base regional_control_gnu Compare FV3 regional control results with
previous trunk version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
+ cd
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+
RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_b
ase
+ '[' '!' -z regional_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'

```

```
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure_regional.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=110
+ [[ .true. = \.\t\r\u\e\.\ ]]
+ ATM_io_tasks=10
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=10
+ [[ 120 -gt 0 ]]
+ atm_petlist_bounds='0 119'
+ n=120
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 109'
+ med_petlist_bounds='0 109'
+ aqm_petlist_bounds='0 109'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=120
+ echo 'ATM_petlist_bounds: 0 119'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 109'
+ echo 'MED_petlist_bounds: 0 109'
+ echo 'AQM_petlist_bounds: 0 109'
```



```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -rf INPUT RESTART
++ mkdir INPUT RESTART
```

```
++ rsync -arv /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_regional/INPUT/.  
INPUT/.  
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc  
aeroclim.m01.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc  
aeroclim.m02.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc  
aeroclim.m03.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc  
aeroclim.m04.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc  
aeroclim.m05.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc  
aeroclim.m06.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc  
aeroclim.m07.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc  
aeroclim.m08.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc  
aeroclim.m09.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc  
aeroclim.m10.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc  
aeroclim.m11.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc  
aeroclim.m12.nc  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat  
++ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat  
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```



```

20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' .false. = .true.  ]'
++ '[' .false. = .true.  ]'
++ [[ lam = \l\a\m ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_fv3lam itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
+ [[ .false. == .true.  ]]
+ [[ .false. == .true.  ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true.  ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ export NODES
+ TASKS=120
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 120 ./fv3.exe
++ tee err
++ mpiexec -n 120 ./fv3.exe

```

'rst'] 2eb25aa630b7772a85dcca8594ad47713f888be0379be90a8337e6155cefba45

```
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'rst'] + docker run --rm --env test_name=cpld_control_nowave_noaero_p8 --env run_case=rst --
workdir /home/builder/ufs-weather-model/tests --volume
DataVolume:/home/builder/data/NEMSFV3GFS --interactive --shm-size=16gb ci-test-weather
922c331c8738
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: cpld_control_nowave_noaero_p8
cases to compile: std
compiling std with compile option -DAPP=S2SW -DCCPP_SUITES=FV3_GFS_v17_coupled_p8
'dcp'] done compiling std
cases to run: std_base dcp
Running test for std_base
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=15736
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
```

```
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
```

```
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
```

```
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
```

```
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
```

```

++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                                sfcf021.nc
sfcf024.nc                                atm021.nc                                atm021.nc
atmf024.nc                                GFSFLX.GrbF00                                GFSFLX.GrbF21
GFSFLX.GrbF24                                GFSPRS.GrbF00                                GFSPRS.GrbF21
GFSPRS.GrbF24                                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc                                sfcf021.nc                                sfcf024.nc
atmf000.nc                                atm021.nc                                atm024.nc
GFSFLX.GrbF00                                GFSFLX.GrbF21                                GFSFLX.GrbF24
GFSPRS.GrbF00                                GFSPRS.GrbF21                                GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc

```

```
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
```



```
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
```



```
++ DOGP_LWSCAT=.false.
++ export USE_LW_JACOBIAN=.false.
++ USE_LW_JACOBIAN=.false.
++ export DAMP_LW_FLUXADJ=.false.
++ DAMP_LW_FLUXADJ=.false.
++ export RRTMGP_LW_PHYS_BLKSZ=2
++ RRTMGP_LW_PHYS_BLKSZ=2
++ export ICLLOUD=0
++ ICLLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
```

```
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
```

```
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
```

```
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
```

```
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
```

```
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
```



```
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
```

```
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
```

```
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
```

```
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
```

```
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
```

```
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
```

```
++ FNSMCC='\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'''
++ export 'FNMSKH='\'global_slmask.t1534.3072.1536.grb\'''
++ FNMSKH='\'global_slmask.t1534.3072.1536.grb\'''
++ export 'FNMNC='\'C96.vegetation_greenness.tileX.nc\'''
++ FNMNC='\'C96.vegetation_greenness.tileX.nc\'''
++ export 'FNMXC='\'C96.vegetation_greenness.tileX.nc\'''
++ FNMXC='\'C96.vegetation_greenness.tileX.nc\'''
++ export 'FNSLPC='\'C96.slope_type.tileX.nc\'''
++ FNSLPC='\'C96.slope_type.tileX.nc\'''
++ export 'FNABSC='\'C96.maximum_snow_albedo.tileX.nc\'''
++ FNABSC='\'C96.maximum_snow_albedo.tileX.nc\'''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
```





```
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
```

```
+ ATM_compute_tasks=144
+ [[ .true. = \.\\t\\r\\u\\e\\. ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
```

```
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set -x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdlos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
```

```
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFV3GFS/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFV3GFS/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFV3GFS/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
```

20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_type.tile6.nc .

```
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_sno clim.1.875.grb
.
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m01.nc
aero clim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m02.nc
aero clim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m03.nc
aero clim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m04.nc
aero clim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m05.nc
aero clim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
```



```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m06.nc
aerochim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m07.nc
aerochim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m08.nc
aerochim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m09.nc
aerochim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m10.nc
aerochim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m11.nc
aerochim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m12.nc
aerochim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -> ']'
++ '[' .false. = .true. -> ']'
++ '[' 8 = 8 -> ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
```

```
++ '[' .false. = .true. ]'  
+ [[ .false. == .true. ]]  
+ [[ .false. == .true. ]]  
+ [[ false = \t\r\u\e ]]  
+ [[ false = \t\r\u\e ]]  
+ [[ false = \t\r\u\e ]]  
+ [[ Q != Q ]]  
+ [[ .false. == .true. ]]  
+ [[ false = \t\r\u\e ]]  
+ [[ false = \t\r\u\e ]]  
+ TPN=40  
+ (( TASKS < TPN ))  
+ export TPN  
+ NODES=3  
+ (( NODES * TPN < TASKS ))  
+ NODES=4  
+ export NODES  
+ TASKS=160  
+ export TASKS  
+ [[ none = \p\b\s ]]  
+ [[ none = \s\l\u\r\m ]]  
+ [[ none = \l\s\f ]]  
+ export OMP_ENV=  
+ OMP_ENV=  
+ [[ none = \n\o\n\e ]]  
+ ulimit -s unlimited  
+ [[ true = \t\r\u\e ]]  
+ eval mpiexec -n 160 ./fv3.exe  
++ tee err  
++ mpiexec -n 160 ./fv3.exe  
'thr']
```

```
WARNING from PE 34: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even  
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 35: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even  
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 36: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even  
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

WARNING from PE 38: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 42: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 43: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 46: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 96: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 1: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 3: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 7: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 39: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 40: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 44: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 45: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 47: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 56: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 58: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 62: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 97: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 2: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 4: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 5: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 9: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 11: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 13: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 16: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 17: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 19: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 20: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 48: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 50: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 61: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 64: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 66: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 67: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 68: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 6: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 12: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 14: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 15: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 18: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 21: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 23: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 51: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 59: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 60: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 63: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 65: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 69: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 70: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 71: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 101: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 53: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 32: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 103: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 0: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 22: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 52: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 57: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 24: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 25: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 26: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 27: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 28: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 30: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 31: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 29: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 33: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12



WARNING from PE 99: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 98: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 37: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 72: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 73: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 74: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 75: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 76: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 78: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 79: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 104: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 107: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 106: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 54: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 55: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 10: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 49: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 8: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 102: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 41: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 77: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 80: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 81: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 82: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 83: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 84: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 85: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 86: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 87: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 88: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 89: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 90: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 91: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 92: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 93: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 94: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 95: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 100: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 105: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 108: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 109: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

```
'thr'] 4e3bd63cccc270305cddab2b3005ec915e05f866142efc7c5ea3044223dc80c5
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] stage
```

```
[Pipeline] { (Test)
```

```
[Pipeline] sh
```

```
'thr'] + docker run --rm --env test_name=control_p8 --env run_case=thr --workdir
```

```
/home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSFv3gfs
```

```
--interactive --shm-size=16gb ci-test-weather
```

```
3ce5d1091e2e
```

```
detect_machine.sh: line 108: PW_CSP: unbound variable
```

```
WARNING: UNKNOWN PLATFORM
```

```
test name: control_p8
```

```
cases to compile: std
```

```
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'dcp'] 8eb0736d422c05b342ad81d90ae5dcc3a310432b77449cfb69318621d61c8aff
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'dcp'] + docker run --rm --env test_name=regional_control --env run_case=dcp --workdir
/home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSFv3gfs
--interactive --shm-size=16gb ci-test-weather
da10689e790b
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: regional_control
cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'dbg'] 7b0ec74d5db059fd93d8870be64638f52275e4b9c8f53f7aae6979ba98a5a2ce
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'dbg'] + docker run --rm --env test_name=cpld_control_nowave_noaero_p8 --env run_case=dbg --
workdir /home/builder/ufs-weather-model/tests --volume
DataVolume:/home/builder/data/NEMSFv3gfs --interactive --shm-size=16gb ci-test-weather
d0eb677cc852
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: cpld_control_nowave_noaero_p8
cases to compile: dbg
compiling dbg with compile option -DAPP=S2SW -DCCPP_SUITES=FV3_GFS_v17_coupled_p8 -
DDEBUG=ON
'bit'] d816945ad2a76bf7d2159e6e59f457c0a154ac1794076526705fa9140474b51d
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
```

```
'dbg'] 8326e6099c5a6a10749fb9632ab8eccd7421ba74c145b1c4100f2bee553b63bc
  [Pipeline] }
'bit'] + docker run --rm --env test_name=control_p8 --env run_case=bit --workdir
  /home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSfv3gfs
  --interactive --shm-si[Pipeline] // stage
'bit'] ze=16gb ci-test-weather
  [Pipeline] stage
  [Pipeline] { (Test)
'bit'] 3f72c9899bc8
'bit'] detect_machine.sh: line 108: PW_CSP: unbound variable
  WARNING: UNKNOWN PLATFORM
  test name: control_p8
  cases [Pipeline] sh
'bit'] to compile: bit
  compiling bit with compile option -DAPP=ATM -
  DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
  GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn
'dbg'] + docker run --rm --env test_name=control_p8 --env run_case=dbg --workdir
  /home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSfv3gfs
  --interactive --shm-size=16gb ci-test-weather
  45982ad2fde8
  detect_machine.sh: line 108: PW_CSP: unbound variable
  WARNING: UNKNOWN PLATFORM
  test name: control_p8
  cases to compile: dbg
  compiling dbg with compile option -DAPP=ATM -
  DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
  GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
  D32BIT=ON -DDEBUG=ON
'mpi'] ba00e6cbc641d05a6fdceab9c685bc989f1e5f05e74ac15821f7379dcb6cd8a0
  [Pipeline] }
  [Pipeline] // stage
  [Pipeline] stage
  [Pipeline] { (Test)
  [Pipeline] sh
'mpi'] + docker run --rm --env test_name=control_p8 --env run_case=mpi --workdir
  /home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSfv3gfs
  --interactive --shm-size=16gb ci-test-weather
  9afeaa8014fb
  detect_machine.sh: line 108: PW_CSP: unbound variable
  WARNING: UNKNOWN PLATFORM
  test name: control_p8
  cases to compile: std
  compiling std with compile option -DAPP=ATM -
```

```

DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'rst'] 3ea82409384b4430c1f2158f84aca1d8cba83f4da623d647b9d7209cff1ece03
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
'rst'] + docker run --rm --env test_name=control_p8 --env run_case=rst --workdir
/home/builder/ufs-weather-model/tests --volume DataVolume:/home/builder/data/NEMSFv3gfs
--interactive --shm-size=16gb ci-test-weather
5030c37cbf91
detect_machine.sh: line 108: PW_CSP: unbound variable
WARNING: UNKNOWN PLATFORM
test name: control_p8
cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v15_thompson_mynn,FV3_GFS_v17_p8,FV3_
GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON
'rst'] done compiling std
cases to run: std_base rst
Running test for std_base
    THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=30827
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=cpld_control_nowave_noaero_p8
+ TEST_NAME=cpld_control_nowave_noaero_p8
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: cpld_control_nowave_noaero_p8'

```

```
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
```



```
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cp1_atmw=1
++ INPES_cp1_atmw=3
++ JNPES_cp1_atmw=8
++ WPG_cp1_atmw=6
++ WAV_tasks_cp1_atmw=30
++ WAV_thrds_cp1_atmw=1
++ THRD_cp1_c48=1
++ INPES_cp1_c48=1
++ JNPES_cp1_c48=1
++ WPG_cp1_c48=6
++ OCN_tasks_cp1_c48=4
++ ICE_tasks_cp1_c48=4
++ THRD_cp1_dflt=1
++ INPES_cp1_dflt=3
++ JNPES_cp1_dflt=8
++ WPG_cp1_dflt=6
++ OCN_tasks_cp1_dflt=20
++ ICE_tasks_cp1_dflt=10
++ WAV_tasks_cp1_dflt=20
++ THRD_cp1_thrd=2
++ INPES_cp1_thrd=3
++ JNPES_cp1_thrd=4
++ WPG_cp1_thrd=6
++ OCN_tasks_cp1_thrd=20
++ OCN_thrds_cp1_thrd=1
```

```
++ ICE_tasks_cpl_thrds=10
++ ICE_thrds_cpl_thrds=1
++ WAV_tasks_cpl_thrds=12
++ WAV_thrds_cpl_thrds=2
++ THRD_cpl_dcpl=1
++ INPES_cpl_dcpl=4
++ JNPES_cpl_dcpl=6
++ WPG_cpl_dcpl=6
++ OCN_tasks_cpl_dcpl=20
++ ICE_tasks_cpl_dcpl=10
++ WAV_tasks_cpl_dcpl=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
```

```
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
```

```
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/cpld_control_nowave_noaero_p8
++ export 'TEST_DESCR=Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ TEST_DESCR='Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ export CNTL_DIR=cpld_control_c96_noaero_p8
++ CNTL_DIR=cpld_control_c96_noaero_p8
++ export 'LIST_FILES=sfcf021.tile1.nc          sfcf021.tile2.nc
sfcf021.tile3.nc          sfcf021.tile4.nc          sfcf021.tile5.nc
sfcf021.tile6.nc          atmf021.tile1.nc          atmf021.tile2.nc
atmf021.tile3.nc          atmf021.tile4.nc          atmf021.tile5.nc
atmf021.tile6.nc          sfcf024.tile1.nc          sfcf024.tile2.nc
sfcf024.tile3.nc          sfcf024.tile4.nc          sfcf024.tile5.nc
sfcf024.tile6.nc          atmf024.tile1.nc          atmf024.tile2.nc
atmf024.tile3.nc          atmf024.tile4.nc          atmf024.tile5.nc
atmf024.tile6.nc          RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
```

```
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/ufscpld.cpl.r.2021-03-23-21600.nc '
++ LIST_FILES='sfcf021.tile1.nc
sfcf021.tile2.nc
sfcf021.tile3.nc
sfcf021.tile4.nc
sfcf021.tile5.nc
sfcf021.tile6.nc
atmf021.tile1.nc
atmf021.tile2.nc
atmf021.tile3.nc
atmf021.tile4.nc
atmf021.tile5.nc
atmf021.tile6.nc
sfcf024.tile1.nc
sfcf024.tile2.nc
sfcf024.tile3.nc
sfcf024.tile4.nc
sfcf024.tile5.nc
atmf024.tile1.nc
atmf024.tile2.nc
atmf024.tile3.nc
atmf024.tile4.nc
atmf024.tile5.nc
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
```

```
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/ufc.cpld.cpl.r.2021-03-23-21600.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
```

```
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
++ WARM_START=.false.
```





```
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
```

```
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
```

```
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
```

```
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
```

```
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC=''global_snowfree_albedo.bosu.t126.384.190.rg.grb''''
++ FNALBC=''global_snowfree_albedo.bosu.t126.384.190.rg.grb''''
++ export 'FNVETC=''global_vegtype.igbp.t126.384.190.rg.grb''''
++ FNVETC=''global_vegtype.igbp.t126.384.190.rg.grb''''
++ export 'FNSOTC=''global_soiltype.statsgo.t126.384.190.rg.grb''''
++ FNSOTC=''global_soiltype.statsgo.t126.384.190.rg.grb''''
++ export 'FNSMCC=''global_soilmgldas.t126.384.190.rg.grb''''
++ FNSMCC=''global_soilmgldas.t126.384.190.rg.grb''''
++ export 'FNSMCC_control=''global_soilmgldas.statsgo.t1534.3072.1536.grb''''
++ FNSMCC_control=''global_soilmgldas.statsgo.t1534.3072.1536.grb''''
++ export 'FNMSKH_control=''global_slmask.t1534.3072.1536.grb''''
++ FNMSKH_control=''global_slmask.t1534.3072.1536.grb''''
++ export 'FNABSC=''global_mxsnoalb.uariz.t126.384.190.rg.grb''''
++ FNABSC=''global_mxsnoalb.uariz.t126.384.190.rg.grb''''
++ export ATMRES=C96
++ ATMRES=C96
```

```
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
```

```
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
```

```
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
```



```
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export_cpl  
++ export FV3=true  
++ FV3=true  
++ export S2S=true  
++ S2S=true  
++ export HAFS=false  
++ HAFS=false  
++ export AQM=false  
++ AQM=false  
++ export DATM_CDEPS=false  
++ DATM_CDEPS=false  
++ export DOCN_CDEPS=false  
++ DOCN_CDEPS=false  
++ export FV3BMIC=p8c  
++ FV3BMIC=p8c  
++ export SYEAR=2021
```

```
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
+++ expr 06 '*' 3600
++ export SECS=21600
++ SECS=21600
++ export BMIC=.false.
++ BMIC=.false.
++ export DAYS=1
++ DAYS=1
++ export FHMAX=24
++ FHMAX=24
++ export FDIAG=6
++ FDIAG=6
++ export FHZERO=6
++ FHZERO=6
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export ATMRES=C96
++ ATMRES=C96
++ export OCNRES=100
++ OCNRES=100
++ export ICERES=1.00
++ ICERES=1.00
++ export NX_GLB=360
++ NX_GLB=360
++ export NY_GLB=320
++ NY_GLB=320
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DOMAINS_STACK_SIZE=8000000
++ DOMAINS_STACK_SIZE=8000000
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export THRD=1
++ THRD=1
```

```
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ WAV_tasks=20
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export DT_CICE=720
++ DT_CICE=720
++ export DT_DYNAM_MOM6=1800
++ DT_DYNAM_MOM6=1800
++ export DT_THERM_MOM6=3600
++ DT_THERM_MOM6=3600
++ export NEMS_CONFIGURE=nems.configure.cpld.IN
++ NEMS_CONFIGURE=nems.configure.cpld.IN
++ export med_model=cmeqs
++ med_model=cmeqs
++ export atm_model=fv3
++ atm_model=fv3
++ export chm_model=gocart
++ chm_model=gocart
++ export ocn_model=mom6
++ ocn_model=mom6
++ export ice_model=cice6
++ ice_model=cice6
++ export wav_model=ww3
++ wav_model=ww3
++ export coupling_interval_slow_sec=3600
++ coupling_interval_slow_sec=3600
++ export coupling_interval_fast_sec=720
++ coupling_interval_fast_sec=720
++ export RESTART_N=24
++ RESTART_N=24
++ export CPLMODE=nems_frac
++ CPLMODE=nems_frac
++ export cap_dbug_flag=0
++ cap_dbug_flag=0
++ export use_coldstart=false
++ use_coldstart=false
++ export use_mommesh=true
++ use_mommesh=true
++ export RUNTYPE=startup
```

```
++ RUNTYPE=startup
++ export CICERUNTYPE=initial
++ CICERUNTYPE=initial
++ export eps_imesh=1.0e-1
++ eps_imesh=1.0e-1
+++ expr 97 - 1
++ export ATMTILESIZE=96
++ ATMTILESIZE=96
++ export MULTIGRID=false
++ MULTIGRID=false
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export DIAG_TABLE_ADDITIONAL=
++ DIAG_TABLE_ADDITIONAL=
++ export FHROT=0
++ FHROT=0
++ export NSOUT=-1
++ NSOUT=-1
++ export 'OUTPUT_FH=6 -1'
++ OUTPUT_FH='6 -1'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
```

```
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export DZ_MIN=6
++ DZ_MIN=6
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,0,0,0,0
++ NSTF_NAME=2,0,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_GSL_DRAG_LS_BL=.true.
++ DO_GSL_DRAG_LS_BL=.true.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
```

```
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
```

```
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export USE_CICE_ALB=.true.
++ USE_CICE_ALB=.true.
++ export MIN_SEAICE=1.0e-6
++ MIN_SEAICE=1.0e-6
++ export DNATS=2
++ DNATS=2
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ export KTHERM=2
++ KTHERM=2
++ export TFREEZE_OPTION=mushy
++ TFREEZE_OPTION=mushy
++ export CPLFLX=.true.
++ CPLFLX=.true.
```

```
++ export CPLICE=.true.
++ CPLICE=.true.
++ export CPL=.true.
++ CPL=.true.
++ export CPLWAV=.true.
++ CPLWAV=.true.
++ export CPLWAV2ATM=.true.
++ CPLWAV2ATM=.true.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export CPLCHM=.true.
++ CPLCHM=.true.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export WARM_START=.false.
++ WARM_START=.false.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export NA_INIT=1
++ NA_INIT=1
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export NGGPS_IC=.true.
++ NGGPS_IC=.true.
++ export MOUNTAIN=.false.
++ MOUNTAIN=.false.
++ export MOM_INPUT=MOM_input_template_100
++ MOM_INPUT=MOM_input_template_100
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export MOM6_RIVER_RUNOFF=False
++ MOM6_RIVER_RUNOFF=False
++ export FRUNOFF=
++ FRUNOFF=
++ export CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ export MOM6_USE_LI2016=True
++ MOM6_USE_LI2016=True
++ export MOM6_THERMO_SPAN=False
++ MOM6_THERMO_SPAN=False
++ export MOM6_USE_WAVES=True
++ MOM6_USE_WAVES=True
++ export MOM6_ALLOW_LANDMASK_CHANGES=False
++ MOM6_ALLOW_LANDMASK_CHANGES=False
```



```
++ export MOM_IAU=False
++ MOM_IAU=False
++ export MOM_IAU_HRS=6
++ MOM_IAU_HRS=6
++ export DO_OCN_SPPT=False
++ DO_OCN_SPPT=False
++ export PERT_EPBL=False
++ PERT_EPBL=False
++ export OCN_SPPT=-999.
++ OCN_SPPT=-999.
++ export EPBL=-999.
++ EPBL=-999.
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
++ export NPROC_ICE=10
++ NPROC_ICE=10
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
+++ expr 10 / 2
++ export np2=5
++ np2=5
+++ expr 360 / 5
++ export BLCKX=72
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export MESHOCN_ICE=mesh.mx100.nc
++ MESHOCN_ICE=mesh.mx100.nc
++ export WAVDOMAIN=mx100
++ WAVDOMAIN=mx100
++ export MODDEF_WAV=mod_def.mx100
++ MODDEF_WAV=mod_def.mx100
++ export MESH_WAV=mesh.mx100.nc
++ MESH_WAV=mesh.mx100.nc
++ export CICEGRID=grid_cice_NEMS_mx100.nc
++ CICEGRID=grid_cice_NEMS_mx100.nc
++ export CICEMASK=kmtu_cice_NEMS_mx100.nc
++ CICEMASK=kmtu_cice_NEMS_mx100.nc
++ export RUNID=unknown
++ RUNID=unknown
++ export DUMPFREQ=d
++ DUMPFREQ=d
++ export DUMPFREQ_N=1000
```

```
++ DUMPFREQ_N=1000
++ export USE_RESTART_TIME=.false.
++ USE_RESTART_TIME=.false.
++ export RESTART_EXT=.false.
++ RESTART_EXT=.false.
++ export FRAZIL_FWSALT=.true.
++ FRAZIL_FWSALT=.true.
++ export CICE_HIST_AVG=.true.
++ CICE_HIST_AVG=.true.
++ export GRIDATM=A
++ GRIDATM=A
++ export GRIDOCN=A
++ GRIDOCN=A
++ export GRIDICE=B
++ GRIDICE=B
++ export WW3RSTDTHR=3
++ WW3RSTDTHR=3
+++ printf %02d 10800
++ export DT_2_RST=10800
++ DT_2_RST=10800
++ export WW3OUTDTHR=3
++ WW3OUTDTHR=3
+++ printf %02d 10800
++ export DTFLD=10800
++ DTFLD=10800
+++ printf %02d 10800
++ export DTPNT=10800
++ DTPNT=10800
++ export WAV_CUR=C
++ WAV_CUR=C
++ export WAV_ICE=C
++ WAV_ICE=C
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export RESTART_FILE_PREFIX=
++ RESTART_FILE_PREFIX=
++ export RESTART_FILE_SUFFIX_SECS=
++ RESTART_FILE_SUFFIX_SECS=
++ export RT35D=
++ RT35D=
```

```
++ export RESTART_N=12
++ RESTART_N=12
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export atm_omp_num_threads=1
++ atm_omp_num_threads=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ export WAV_tasks=0
++ WAV_tasks=0
++ export NPROC_ICE=10
++ NPROC_ICE=10
+++ expr 10 / 2
++ export np2=5
++ np2=5
+++ expr 360 / 5
++ export BLCKX=72
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export MOM6_USE_WAVES=False
++ MOM6_USE_WAVES=False
++ export eps_imesh=2.5e-1
++ eps_imesh=2.5e-1
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export DNATS=0
++ DNATS=0
++ export TOPOEDITS=ufs.topo_edits_011818.nc
++ TOPOEDITS=ufs.topo_edits_011818.nc
++ export MOM6_ALLOW_LANDMASK_CHANGES=True
```

```
++ MOM6_ALLOW_LANDMASK_CHANGES=True
++ export DIAG_TABLE=diag_table_template
++ DIAG_TABLE=diag_table_template
++ export NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ export FV3_RUN=cpld_control_run.IN
++ FV3_RUN=cpld_control_run.IN
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for cpld_control_nowave_noaero_p8_gnu_std_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base
+ export INPUT_DIR=cpld_control_c96_noaero_p8
+ INPUT_DIR=cpld_control_c96_noaero_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noae
ro_p8_gnu_std_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noae
ro_p8_gnu_std_base
+ export CNTL_DIR=cpld_control_c96_noaero_p8_std_base
+ CNTL_DIR=cpld_control_c96_noaero_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_std_base
+ JBNME=opnReqTest_7_std_base
++ date +%s
+ echo -n 'cpld_control_nowave_noaero_p8_gnu, 1686144899,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_cpld_control_nowave_noaero_p8_gnu_std_
base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_cpld_control_nowave_noaero_p8_gnu_std_
base.log
+ echo 'Test std_base cpld_control_nowave_noaero_p8_gnu Fully coupled FV3-CCPP-MOM6-
CICE-CMEPS system - C96MX100'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_std_base
```

```
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_std_base
+ cd
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+
RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero
_p8_gnu_std_base
+ '[' !' -z cpld_control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
```

```
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 20 -gt 0 ]]
+ OCN_tasks=20
+ ocn_petlist_bounds='150 169'
+ n=170
+ [[ 10 -gt 0 ]]
+ ICE_tasks=10
+ ice_petlist_bounds='170 179'
+ n=180
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=180
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: 150 169'
+ echo 'ICE_petlist_bounds: 170 179'
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 180'
+ export TASKS=180
+ TASKS=180
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.cpld_noaero_nowave.IN
]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']
```

```
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke_GOCART != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke_GOCART field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdllos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ mkdir INPUT RESTART history MOM6_OUTPUT
++ [[ C96 == C96 ]]
++ FV3_DIR=FV3_input_data
++ ICERES=1.00
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ FV3_IC=/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100
++ MOM_IC=/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_IC
++ ICE_IC=/home/builder/data/NEMSFV3gfs/input-data-20221101/CICE_IC/100
```



```
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile1.nc INPUT/oro_data.tile1.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile2.nc INPUT/oro_data.tile2.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile3.nc INPUT/oro_data.tile3.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile4.nc INPUT/oro_data.tile4.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile5.nc INPUT/oro_data.tile5.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile6.nc INPUT/oro_data.tile6.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
```

20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile6.nc

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/CPL_FIX/aC96o100/grid_spec.nc
./INPUT
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT/C96_grid.tile1.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT/C96_grid.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile6.nc
./INPUT
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT/grid_spec.nc ./INPUT/C96_mosaic.nc
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/KH_background_2d.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/MOM_channels_SPEAR
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/MOM_override
/home/builder/data/NEMSFV3gfs/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xland_mosaic_tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/hycom1_75_800m.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/interpolate_zgrid_40L.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/land_mask.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/MOM6_FIX/100/land_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/layer_coord.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/ocean_hgrid.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/ocean_mask.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/ocean_mosaic.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/MOM6_FIX/100/seawifs_1998-
2006_smoothed_2X.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/MOM6_FIX/100/tidal_amplitude.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/MOM6_FIX/100/topo_edits_011818.nc /home/builder/data/NEMSFV3gfs/input-data-
```

```
20221101/MOM6_FIX/100/topog.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/ufs.topo_edits_011818.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/vgrid_75_2m.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_FIX/100/grid_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_FIX/100/kmtu_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/CICE_FIX/100/mesh.mx100.nc .
++ [[ .false. == .true. ]]
++ '[' .false. = .true. ']'
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_ctrl.nc ./INPUT
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/MOM6_IC/MOM6_IC_TS_2021032206.nc
./INPUT/MOM6_IC_TS.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/CICE_IC/100/cice_model_1.00.cpc.res_20210322.nc ./cice_model.res.nc
++ '[' .false. = .true.  ']'
++ '[' 1011 = 1011  ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
```

```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/ugwp_c384_tau.nc
./ugwp_limb_tau.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc ./INPUT
++ '[' 8 = 8 ']
```

```
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN
CCN_ACTIVATE.BIN
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH20.dat
freezeH20.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
qr_acr_qgV2.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat
qr_acr_qsV2.dat
++ '[' .false. = .true. ]'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace ]'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=4
+ (( NODES * TPN < TASKS ))
```

```
+ NODES=5
+ export NODES
+ TASKS=200
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 200 ./fv3.exe
++ tee err
++ mpiexec -n 200 ./fv3.exe
```

```
WARNING from PE      0: MOM_obsolete_params: ETA_TOLERANCE_AUX is an obsolete run-time
flag.
```

```
WARNING from PE      0: Open_file is appending .nc to the filename
MOM6_OUTPUT/ocean_geometry
```

```
'dbg'] done compiling dbg
cases to run: dbg_base
Running test for dbg_base
    THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=35631
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=cpld_control_nowave_noaero_p8
+ TEST_NAME=cpld_control_nowave_noaero_p8
+ export TEST_NR=dbg_base
+ TEST_NR=dbg_base
+ export COMPILER_NR=dbg
+ COMPILER_NR=dbg
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
```



```
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: cpld_control_nowave_noaero_p8'
+ echo 'TEST_NR: dbg_base'
+ echo 'COMPILE_NR: dbg'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dbg_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dbg_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_dbg_base
++ RT_SUFFIX=_dbg_base
++ export BL_SUFFIX=_dbg_base
++ BL_SUFFIX=_dbg_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
```

```
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cp1_atmw=1
++ INPES_cp1_atmw=3
++ JNPES_cp1_atmw=8
++ WPG_cp1_atmw=6
++ WAV_tasks_cp1_atmw=30
++ WAV_thrds_cp1_atmw=1
++ THRD_cp1_c48=1
++ INPES_cp1_c48=1
++ JNPES_cp1_c48=1
++ WPG_cp1_c48=6
++ OCN_tasks_cp1_c48=4
++ ICE_tasks_cp1_c48=4
++ THRD_cp1_dflt=1
++ INPES_cp1_dflt=3
++ JNPES_cp1_dflt=8
++ WPG_cp1_dflt=6
++ OCN_tasks_cp1_dflt=20
++ ICE_tasks_cp1_dflt=10
++ WAV_tasks_cp1_dflt=20
++ THRD_cp1_thrd=2
++ INPES_cp1_thrd=3
++ JNPES_cp1_thrd=4
++ WPG_cp1_thrd=6
```

```
++ OCN_tasks_cpl_thrds=20
++ OCN_thrds_cpl_thrds=1
++ ICE_tasks_cpl_thrds=10
++ ICE_thrds_cpl_thrds=1
++ WAV_tasks_cpl_thrds=12
++ WAV_thrds_cpl_thrds=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
```

```
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
```

```
++ OCN_tasks_cpl_thrld=20
++ ICE_tasks_cpl_thrld=10
++ WAV_tasks_cpl_thrld=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/cpld_control_nowave_noaero_p8
++ export 'TEST_DESCR=Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ TEST_DESCR='Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ export CNTL_DIR=cpld_control_c96_noaero_p8
++ CNTL_DIR=cpld_control_c96_noaero_p8
++ export 'LIST_FILES=sfcf021.tile1.nc          sfcf021.tile2.nc
sfcf021.tile3.nc          sfcf021.tile4.nc          sfcf021.tile5.nc
sfcf021.tile6.nc          atmf021.tile1.nc          atmf021.tile2.nc
atmf021.tile3.nc          atmf021.tile4.nc          atmf021.tile5.nc
atmf021.tile6.nc          sfcf024.tile1.nc          sfcf024.tile2.nc
sfcf024.tile3.nc          sfcf024.tile4.nc          sfcf024.tile5.nc
sfcf024.tile6.nc          atmf024.tile1.nc          atmf024.tile2.nc
atmf024.tile3.nc          atmf024.tile4.nc          atmf024.tile5.nc
atmf024.tile6.nc          RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
```

```
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc                RESTART/iced.2021-03-23-21600.nc
RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc '
++ LIST_FILES='sfcf021.tile1.nc                sfcf021.tile2.nc
sfcf021.tile3.nc                sfcf021.tile4.nc                sfcf021.tile5.nc
sfcf021.tile6.nc                atmf021.tile1.nc                atmf021.tile2.nc
atmf021.tile3.nc                atmf021.tile4.nc                atmf021.tile5.nc
atmf021.tile6.nc                sfcf024.tile1.nc                sfcf024.tile2.nc
sfcf024.tile3.nc                sfcf024.tile4.nc                sfcf024.tile5.nc
sfcf024.tile6.nc                atmf024.tile1.nc                atmf024.tile2.nc
atmf024.tile3.nc                atmf024.tile4.nc                atmf024.tile5.nc
atmf024.tile6.nc                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
```

```
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/ufscpld.cpl.r.2021-03-23-21600.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
```

```
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
```





```
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
```

```
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
```

```
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6
```

```
", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
```

```
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
```

```
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
```

```
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
```



```

++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'

```

```
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export_cpl  
++ export FV3=true  
++ FV3=true  
++ export S2S=true  
++ S2S=true  
++ export HAFS=false  
++ HAFS=false  
++ export AQM=false  
++ AQM=false  
++ export DATM_CDEPS=false  
++ DATM_CDEPS=false  
++ export DOCN_CDEPS=false  
++ DOCN_CDEPS=false  
++ export FV3BMIC=p8c
```

```
++ FV3BMIC=p8c
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
+++ expr 06 '*' 3600
++ export SECS=21600
++ SECS=21600
++ export BMIC=.false.
++ BMIC=.false.
++ export DAYS=1
++ DAYS=1
++ export FHMAX=24
++ FHMAX=24
++ export FDIAG=6
++ FDIAG=6
++ export FHZERO=6
++ FHZERO=6
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export ATMRES=C96
++ ATMRES=C96
++ export OCNRES=100
++ OCNRES=100
++ export ICERES=1.00
++ ICERES=1.00
++ export NX_GLB=360
++ NX_GLB=360
++ export NY_GLB=320
++ NY_GLB=320
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DOMAINS_STACK_SIZE=8000000
++ DOMAINS_STACK_SIZE=8000000
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
```

```
++ export THRD=1
++ THRD=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ WAV_tasks=20
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export DT_CICE=720
++ DT_CICE=720
++ export DT_DYNAM_MOM6=1800
++ DT_DYNAM_MOM6=1800
++ export DT_THERM_MOM6=3600
++ DT_THERM_MOM6=3600
++ export NEMS_CONFIGURE=nems.configure.cpld.IN
++ NEMS_CONFIGURE=nems.configure.cpld.IN
++ export med_model=cmeeps
++ med_model=cmeeps
++ export atm_model=fv3
++ atm_model=fv3
++ export chm_model=gocart
++ chm_model=gocart
++ export ocn_model=mom6
++ ocn_model=mom6
++ export ice_model=cice6
++ ice_model=cice6
++ export wav_model=ww3
++ wav_model=ww3
++ export coupling_interval_slow_sec=3600
++ coupling_interval_slow_sec=3600
++ export coupling_interval_fast_sec=720
++ coupling_interval_fast_sec=720
++ export RESTART_N=24
++ RESTART_N=24
++ export CPLMODE=nems_frac
++ CPLMODE=nems_frac
++ export cap_dbug_flag=0
++ cap_dbug_flag=0
++ export use_coldstart=false
++ use_coldstart=false
++ export use_mommesh=true
```

```
++ use_mommesh=true
++ export RUNTYPE=startup
++ RUNTYPE=startup
++ export CICERUNTYPE=initial
++ CICERUNTYPE=initial
++ export eps_imesh=1.0e-1
++ eps_imesh=1.0e-1
+++ expr 97 - 1
++ export ATMTILESIZE=96
++ ATMTILESIZE=96
++ export MULTIGRID=false
++ MULTIGRID=false
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export DIAG_TABLE_ADDITIONAL=
++ DIAG_TABLE_ADDITIONAL=
++ export FHROT=0
++ FHROT=0
++ export NSOUT=-1
++ NSOUT=-1
++ export 'OUTPUT_FH=6 -1'
++ OUTPUT_FH='6 -1'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
```

```
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export DZ_MIN=6
++ DZ_MIN=6
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,0,0,0,0
++ NSTF_NAME=2,0,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_GSL_DRAG_LS_BL=.true.
++ DO_GSL_DRAG_LS_BL=.true.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
```

```
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''''
++ FNALBC2='\''C96.facsf.tileX.nc'\''''
```

```
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export USE_CICE_ALB=.true.
++ USE_CICE_ALB=.true.
++ export MIN_SEAICE=1.0e-6
++ MIN_SEAICE=1.0e-6
++ export DNATS=2
++ DNATS=2
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ export KTHERM=2
++ KTHERM=2
++ export TFREEZE_OPTION=mushy
++ TFREEZE_OPTION=mushy
```



```
++ export CPLFLX=.true.
++ CPLFLX=.true.
++ export CPLICE=.true.
++ CPLICE=.true.
++ export CPL=.true.
++ CPL=.true.
++ export CPLWAV=.true.
++ CPLWAV=.true.
++ export CPLWAV2ATM=.true.
++ CPLWAV2ATM=.true.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export CPLCHM=.true.
++ CPLCHM=.true.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export WARM_START=.false.
++ WARM_START=.false.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export NA_INIT=1
++ NA_INIT=1
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export NGGPS_IC=.true.
++ NGGPS_IC=.true.
++ export MOUNTAIN=.false.
++ MOUNTAIN=.false.
++ export MOM_INPUT=MOM_input_template_100
++ MOM_INPUT=MOM_input_template_100
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export MOM6_RIVER_RUNOFF=False
++ MOM6_RIVER_RUNOFF=False
++ export FRUNOFF=
++ FRUNOFF=
++ export CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ export MOM6_USE_LI2016=True
++ MOM6_USE_LI2016=True
++ export MOM6_THERMO_SPAN=False
++ MOM6_THERMO_SPAN=False
++ export MOM6_USE_WAVES=True
++ MOM6_USE_WAVES=True
```

```
++ export MOM6_ALLOW_LANDMASK_CHANGES=False
++ MOM6_ALLOW_LANDMASK_CHANGES=False
++ export MOM_IAU=False
++ MOM_IAU=False
++ export MOM_IAU_HRS=6
++ MOM_IAU_HRS=6
++ export DO_OCN_SPPT=False
++ DO_OCN_SPPT=False
++ export PERT_EPBL=False
++ PERT_EPBL=False
++ export OCN_SPPT=-999.
++ OCN_SPPT=-999.
++ export EPBL=-999.
++ EPBL=-999.
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
++ export NPROC_ICE=10
++ NPROC_ICE=10
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
+++ expr 10 / 2
++ export np2=5
++ np2=5
+++ expr 360 / 5
++ export BLCKX=72
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export MESHOCN_ICE=mesh.mx100.nc
++ MESHOCN_ICE=mesh.mx100.nc
++ export WAVDOMAIN=mx100
++ WAVDOMAIN=mx100
++ export MODDEF_WAV=mod_def.mx100
++ MODDEF_WAV=mod_def.mx100
++ export MESH_WAV=mesh.mx100.nc
++ MESH_WAV=mesh.mx100.nc
++ export CICEGRID=grid_cice_NEMS_mx100.nc
++ CICEGRID=grid_cice_NEMS_mx100.nc
++ export CICEMASK=kmtn_cice_NEMS_mx100.nc
++ CICEMASK=kmtn_cice_NEMS_mx100.nc
++ export RUNID=unknown
++ RUNID=unknown
++ export DUMPFREQ=d
```

```
++ DUMPFREQ=d
++ export DUMPFREQ_N=1000
++ DUMPFREQ_N=1000
++ export USE_RESTART_TIME=.false.
++ USE_RESTART_TIME=.false.
++ export RESTART_EXT=.false.
++ RESTART_EXT=.false.
++ export FRAZIL_FWSALT=.true.
++ FRAZIL_FWSALT=.true.
++ export CICE_HIST_AVG=.true.
++ CICE_HIST_AVG=.true.
++ export GRIDATM=A
++ GRIDATM=A
++ export GRIDOCN=A
++ GRIDOCN=A
++ export GRIDICE=B
++ GRIDICE=B
++ export WW3RSTDTHR=3
++ WW3RSTDTHR=3
+++ printf %02d 10800
++ export DT_2_RST=10800
++ DT_2_RST=10800
++ export WW3OUTDTHR=3
++ WW3OUTDTHR=3
+++ printf %02d 10800
++ export DTFLD=10800
++ DTFLD=10800
+++ printf %02d 10800
++ export DTPNT=10800
++ DTPNT=10800
++ export WAV_CUR=C
++ WAV_CUR=C
++ export WAV_ICE=C
++ WAV_ICE=C
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export RESTART_FILE_PREFIX=
++ RESTART_FILE_PREFIX=
++ export RESTART_FILE_SUFFIX_SECS=
++ RESTART_FILE_SUFFIX_SECS=
```

```
++ export RT35D=
++ RT35D=
++ export RESTART_N=12
++ RESTART_N=12
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export atm_omp_num_threads=1
++ atm_omp_num_threads=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ export WAV_tasks=0
++ WAV_tasks=0
++ export NPROC_ICE=10
++ NPROC_ICE=10
+++ expr 10 / 2
++ export np2=5
++ np2=5
+++ expr 360 / 5
++ export BLCKX=72
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export MOM6_USE_WAVES=False
++ MOM6_USE_WAVES=False
++ export eps_imesh=2.5e-1
++ eps_imesh=2.5e-1
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export DNATS=0
++ DNATS=0
++ export TOPOEDITS=ufs.topo_edits_011818.nc
```

```
++ TOPOEDITS=ufs.topo_edits_011818.nc
++ export MOM6_ALLOW_LANDMASK_CHANGES=True
++ MOM6_ALLOW_LANDMASK_CHANGES=True
++ export DIAG_TABLE=diag_table_template
++ DIAG_TABLE=diag_table_template
++ export NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ export FV3_RUN=cpld_control_run.IN
++ FV3_RUN=cpld_control_run.IN
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for cpld_control_nowave_noaero_p8_gnu_dbg_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_dbg_base
+ export INPUT_DIR=cpld_control_c96_noaero_p8
+ INPUT_DIR=cpld_control_c96_noaero_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noae
ro_p8_gnu_dbg_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noae
ro_p8_gnu_dbg_base
+ export CNTL_DIR=cpld_control_c96_noaero_p8_dbg_base
+ CNTL_DIR=cpld_control_c96_noaero_p8_dbg_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_dbg_base
+ JBNME=opnReqTest_7_dbg_base
++ date +%s
+ echo -n 'cpld_control_nowave_noaero_p8_gnu, 1686144957,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dbg_base_cpld_control_nowave_noaero_p8_gnu_dbg_
base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dbg_base_cpld_control_nowave_noaero_p8_gnu_dbg_
base.log
+ echo 'Test dbg_base cpld_control_nowave_noaero_p8_gnu Fully coupled FV3-CCPP-MOM6-
CICE-CMEPS system - C96MX100'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
```

```
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_dbg_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_dbg_base
+ cd
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_dbg_base
+ cp /home/builder/ufs-weather-model/tests/fv3_dbg.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_dbg ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+
RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_dbg_base
+ '[' '!' -z cpld_control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
```

```
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 20 -gt 0 ]]
+ OCN_tasks=20
+ ocn_petlist_bounds='150 169'
+ n=170
+ [[ 10 -gt 0 ]]
+ ICE_tasks=10
+ ice_petlist_bounds='170 179'
+ n=180
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=180
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: 150 169'
+ echo 'ICE_petlist_bounds: 170 179'
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 180'
+ export TASKS=180
+ TASKS=180
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.cpld_noaero_nowave.IN
]]
+ atparse
```

```

+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke_GOCART != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke_GOCART field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt

```



```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ mkdir INPUT RESTART history MOM6_OUTPUT
++ [[ C96 == C96 ]]
++ FV3_DIR=FV3_input_data
++ ICERES=1.00
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ FV3_IC=/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100
```

```
++ MOM_IC=/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_IC
++ ICE_IC=/home/builder/data/NEMSFV3GFS/input-data-20221101/CICE_IC/100
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile1.nc INPUT/oro_data.tile1.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile2.nc INPUT/oro_data.tile2.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile3.nc INPUT/oro_data.tile3.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile4.nc INPUT/oro_data.tile4.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile5.nc INPUT/oro_data.tile5.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile6.nc INPUT/oro_data.tile6.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFV3GFS/input-
```

data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile5.nc

```
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/CPL_FIX/aC96o100/grid_spec.nc
./INPUT
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT/C96_grid.tile1.nc /home/builder/data/NEMSFV3GFS/input-
data-20221101/FV3_input_data/INPUT/C96_grid.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile6.nc
./INPUT
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT/grid_spec.nc ./INPUT/C96_mosaic.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/KH_background_2d.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/MOM_channels_SPEAR
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/MOM_override
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xland_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/hycom1_75_800m.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/interpolate_zgrid_40L.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/land_mask.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/land_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/layer_coord.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_hgrid.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_mask.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_mosaic.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/seawifs_1998-
2006_smoothed_2X.nc /home/builder/data/NEMSFV3GFS/input-data-
```

```
20221101/MOM6_FIX/100/tidal_amplitude.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/topo_edits_011818.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/topog.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/ufs.topo_edits_011818.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/MOM6_FIX/100/vgrid_75_2m.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_FIX/100/grid_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_FIX/100/kmtu_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/CICE_FIX/100/mesh.mx100.nc .
++ [[ .false. == .true. ]]
++ '[' .false. = .true. ']'
++ OPNREQ_TEST=false
++ SUFFIX=_dbg_base
++ '[' .false. = .false. ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_ctrl.nc ./INPUT
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/MOM6_IC/MOM6_IC_TS_2021032206.nc
```

```
./INPUT/MOM6_IC_TS.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_IC/100/cice_model_1.00.cpc.res_20210322.nc ./cice_model.res.nc
++ '[' .false. = .true. ']'
++ '[' 1011 = 1011 ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
```

```
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/ugwp_c384_tau.nc
./ugwp_limb_tau.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc ./INPUT
++ '[' 8 = 8 ']'
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN
CCN_ACTIVATE.BIN
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/freezeH20.dat
freezeH20.dat
'dbg'] done compiling dbg
cases to run: dbg_base
Running test for dbg_base
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=18869
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=dbg_base
+ TEST_NR=dbg_base
+ export COMPILE_NR=dbg
+ COMPILE_NR=dbg
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: dbg_base'
+ echo 'COMPILE_NR: dbg'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dbg_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dbg_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
```



```
++ INPUTDATA_ROOT=/home/builder/data/NEMSFv3gfs/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFv3gfs/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFv3gfs/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFv3gfs/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFv3gfs/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_dbg_base
++ RT_SUFFIX=_dbg_base
++ export BL_SUFFIX=_dbg_base
++ BL_SUFFIX=_dbg_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
```

```
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
```

```
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
```

```

++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcross2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24                GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc'

```

```
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc          sfcf021.nc          sfcf024.nc
atmf000.nc          atmf021.nc          atmf024.nc
GFSFLX.GrbF00      GFSFLX.GrbF21      GFSFLX.GrbF24
GFSPRS.GrbF00      GFSPRS.GrbF21      GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
```

```
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
```

```
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\"'atm'\"' '\"'sfc'\"''
++ FILENAME_BASE='\"'atm'\"' '\"'sfc'\"''
++ export 'OUTPUT_GRID='\"'cubed_sphere_grid'\"''
++ OUTPUT_GRID='\"'cubed_sphere_grid'\"''
++ export 'OUTPUT_FILE='\"'netcdf'\"''
++ OUTPUT_FILE='\"'netcdf'\"''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
```





```
++ ICLLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
```

```
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
```

```
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
```

```
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
```

```
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
```

```
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
```

```
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
```

```
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''
''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
```



```
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
```

```
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
```

```
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
```

```
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''''
++ FNALBC2='\''C96.facsf.tileX.nc'\''''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''''
++ export 'FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''''
```

```
++ FNSLPC='\'\'C96.slope_type.tileX.nc\'\'\'
++ export 'FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
```

```
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu_dbg_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_dbg_base
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+ export CNTL_DIR=control_p8_dbg_base
+ CNTL_DIR=control_p8_dbg_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_dbg_base
+ JBNME=opnReqTest_7_dbg_base
++ date +%s
+ echo -n 'control_p8_gnu, 1686144955,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dbg_base_control_p8_gnu_dbg_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dbg_base_control_p8_gnu_dbg_base.log
+ echo 'Test dbg_base control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+ cp /home/builder/ufs-weather-model/tests/fv3_dbg.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_dbg ./modulefiles/modules.fv3
```

```
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
```

```
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\|output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\|output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\|output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\|output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\|output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
```



```
+ cp /home/builder/ufs-weather-  
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table  
+ [[ true == true ]]  
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .  
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdlos.f77 .  
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .  
+ cp /home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt  
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt  
. .  
+ [[ .true. != .true. ]]  
+ [[ false == .true. ]]  
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml  
+ source ./fv3_run  
++ rm -fr INPUT RESTART
```

```
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_dbg_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3gfs/input-data-
```

20221101/FV3\_fix\_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile1.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile2.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile3.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile4.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile5.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile6.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile2.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile4.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile6.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile1.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile2.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile3.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile4.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile5.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile6.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSFv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc

```
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
```

```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/global_soilmglas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
```

```

++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m08.nc
aerochim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m09.nc
aerochim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m10.nc
aerochim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m11.nc
aerochim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m12.nc
aerochim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -> ']'
++ '[' .false. = .true. -> ']'
++ '[' 8 = 8 -> ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH20.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -> ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\>e ]]
+ [[ false = \t\r\u\>e ]]
+ [[ false = \t\r\u\>e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]

```

```

+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'dbg'] ++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
qr_acr_qgV2.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat
qr_acr_qsV2.dat
++ '[' .false. = .true. ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x

```



```

+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=4
+ (( NODES * TPN < TASKS ))
+ NODES=5
+ export NODES
+ TASKS=200
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 200 ./fv3.exe
++ tee err
++ mpiexec -n 200 ./fv3.exe

```

WARNING from PE 0: MOM\_obsolete\_params: ETA\_TOLERANCE\_AUX is an obsolete run-time flag.

WARNING from PE 0: Open\_file is appending .nc to the filename  
MOM6\_OUTPUT/ocean\_geometry

```

'thr'] done compiling std
cases to run: std_base thr
Running test for std_base

```

```
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=15736
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
```

```
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
```

```
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
```

```
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcross2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
```

```

++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thrd=3
++ JNPES_thrd=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ ICE_tasks_cpl_thrd=10
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24                GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc

```

```
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ LIST_FILES= 'sfcf000.nc          sfcf021.nc          sfcf024.nc
atmf000.nc          atmf021.nc          atmf024.nc
GFSFLX.GrbF00      GFSFLX.GrbF21      GFSFLX.GrbF24
GFSPRS.GrbF00      GFSPRS.GrbF21      GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
```

```
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
```



```
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
```



```
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
```

```
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
```

```
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
```

```
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6",
", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1
:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6",
", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1
:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
```

```
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
```

```
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
```



```
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDRP_TYPE=0
++ LNDRP_TYPE=0
++ export N_VAR_LNDRP=0
++ N_VAR_LNDRP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDRP_VAR_LIST='\''XXX'\''
++ LNDRP_VAR_LIST='\''XXX'\''
++ export LNDRP_PRT_LIST=-999
++ LNDRP_PRT_LIST=-999
++ export LNDRP_MODEL_TYPE=0
++ LNDRP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
```

```
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''
''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
```

```
++ export 'RUN_END=21001003 000000'  
++ RUN_END='21001003 000000'  
++ export 'OUT_BEG=20161003 000000'  
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export NPZ=127  
++ NPZ=127  
++ export NPZP=128  
++ NPZP=128  
++ export DT_ATMOS=720  
++ DT_ATMOS=720  
++ export DT_INNER=720  
++ DT_INNER=720
```

```
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
```

```
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
```

```
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
```

```
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu_std_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base
```

```
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_std_base
+ JBNME=opnReqTest_7_std_base
++ date +%s
+ echo -n 'control_p8_gnu, 1686145026,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ echo 'Test std_base control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\t|i|l\s.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wco2s2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
```



```
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
```

```

+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks      : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -x ]
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -x ]
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_h2oprldlos.f77
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prldlos.f77 .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat

```

```
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=V3_input_data
++ echo inputdir=V3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSFv3gfs/input-data-
20221101/V3_input_data/INPUT_L127/C96_grid.tile1.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
```

20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.maximum\_snow\_albedo.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-

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20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
```

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++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```



```

20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH20.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -e ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES

```

```

+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'dcp'] done compiling std
cases to run: std_base dcp
Running test for std_base
    THRD: 1; INPES: 10; JNPES: 11; TPN: 40
+ echo PID=15777
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ export TEST_NAME=regional_control
+ TEST_NAME=regional_control
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8'
+ echo 'TEST_NAME: regional_control'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/run_test_std_base.env

```

```
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
```

```
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
```

```
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
```

```
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/regional_control
++ export 'TEST_DESCR=Compare FV3 regional control results with previous trunk version'
++ TEST_DESCR='Compare FV3 regional control results with previous trunk version'
++ export CNTL_DIR=regional_control
```

```
++ CNTL_DIR=regional_control
++ export 'LIST_FILES=dynf000.nc                dynf006.nc
phyf000.nc                phyf006.nc                PRSLEV.GrbF00
PRSLEV.GrbF06                NATLEV.GrbF00                NATLEV.GrbF06'
++ LIST_FILES='dynf000.nc                dynf006.nc                phyf000.nc
phyf006.nc                PRSLEV.GrbF00                PRSLEV.GrbF06
NATLEV.GrbF00                NATLEV.GrbF06'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
```

```
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
```





```
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
```

```
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
```

```
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6
```

```
", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
```

```
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
```

```
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
```

```
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
```



```

++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'

```

```
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export FV3_RUN=regional_run.IN  
++ FV3_RUN=regional_run.IN  
++ export OZ_PHYS_OLD=.false.  
++ OZ_PHYS_OLD=.false.  
++ export OZ_PHYS_NEW=.true.  
++ OZ_PHYS_NEW=.true.  
++ export H2O_PHYS=.true.  
++ H2O_PHYS=.true.  
++ export HYBEDMF=.false.  
++ HYBEDMF=.false.  
++ export 'RESTART_INTERVAL=3 -1'  
++ RESTART_INTERVAL='3 -1'  
++ export WRITE_DOPOST=.true.  
++ WRITE_DOPOST=.true.
```

```
++ export POSTAPP=lam
++ POSTAPP=lam
++ export CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ export INPUT_NML=regional.nml.IN
++ INPUT_NML=regional.nml.IN
++ export MODEL_CONFIGURE=model_configure_regional.IN
++ MODEL_CONFIGURE=model_configure_regional.IN
++ export DIAG_TABLE=diag_table_lam
++ DIAG_TABLE=diag_table_lam
++ export FIELD_TABLE=field_table_regional
++ FIELD_TABLE=field_table_regional
++ export WLCLK=15
++ WLCLK=15
++ export FHMAX=6
++ FHMAX=6
++ export INPES=10
++ INPES=10
++ export JNPES=11
++ JNPES=11
++ export 'OUTPUT_FH=3 -1'
++ OUTPUT_FH='3 -1'
++ WRITE_GROUP=1
++ WRTTASK_PER_GROUP=10
++ NTILES=1
+ remove_fail_test
+ echo 'Removing test failure flag file for regional_control_gnu_std_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base
+ export INPUT_DIR=regional_control
+ INPUT_DIR=regional_control
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
+ export CNTL_DIR=regional_control_std_base
+ CNTL_DIR=regional_control_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ export JBNME=opnReqTest_8_std_base
+ JBNME=opnReqTest_8_std_base
++ date +%s
+ echo -n 'regional_control_gnu, 1686145029,'
+ export RT_LOG=/home/builder/ufs-weather-
```

```
model/tests/logs/log_opnReqTest_linux/rt_std_base_regional_control_gnu_std_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_regional_control_gnu_std_base.log
+ echo 'Test std_base regional_control_gnu Compare FV3 regional control results with
previous trunk version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
+ cd
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+
RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_b
ase
+ '[' '!' -z regional_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
```

```
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure_regional.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=110
+ [[ .true. = \.\t\r\u\e\.\. ]]
+ ATM_io_tasks=10
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=10
+ [[ 120 -gt 0 ]]
+ atm_petlist_bounds='0 119'
+ n=120
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 109'
+ med_petlist_bounds='0 109'
+ aqm_petlist_bounds='0 109'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=120
+ echo 'ATM_petlist_bounds: 0 119'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 109'
+ echo 'MED_petlist_bounds: 0 109'
+ echo 'AQM_petlist_bounds: 0 109'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks           : 120'
+ export TASKS=120
```

```
+ TASKS=120
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set -x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_lam != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set -x
+ [[ Qfield_table_regional != Q ]]
+ cp /home/builder/ufs-weather-model/tests/parm/field_table/field_table_regional
field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprldlos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prldlos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
```

```

20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaiice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -rf INPUT RESTART
++ mkdir INPUT RESTART
++ rsync -arv /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_regional/INPUT/.
INPUT/.
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .

```

```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m01.nc
aerochim.m01.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m02.nc
aerochim.m02.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m03.nc
aerochim.m03.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m04.nc
aerochim.m04.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m05.nc
aerochim.m05.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m06.nc
aerochim.m06.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m07.nc
aerochim.m07.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m08.nc
aerochim.m08.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m09.nc
aerochim.m09.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m10.nc
aerochim.m10.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m12.nc
aerochim.m11.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m12.nc
aerochim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
```



```

++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' .false. = .true. ']'
++ '[' .false. = .true. ']'
++ [[ lam = \l\a\m ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_fv3lam itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ export NODES
+ TASKS=120
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 120 ./fv3.exe
++ tee err
++ mpiexec -n 120 ./fv3.exe
'bit'] done compiling bit
cases to run: bit_base
Running test for bit_base
      THRD: 1; INPES: 3; JNPES: 2; TPN: 40

```

```
+ echo PID=16152
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=bit_base
+ TEST_NR=bit_base
+ export COMPILER_NR=bit
+ COMPILER_NR=bit
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: bit_base'
+ echo 'COMPILER_NR: bit'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_bit_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_bit_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
```

```
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_bit_base
++ RT_SUFFIX=_bit_base
++ export BL_SUFFIX=_bit_base
++ BL_SUFFIX=_bit_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
```

```
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
```

```
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
```

```
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24                GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
```

```

RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc                sfcf021.nc                sfcf024.nc
atmf000.nc                atmf021.nc                atmf024.nc
GFSFLX.GrbF00            GFSFLX.GrbF21            GFSFLX.GrbF24
GFSPRS.GrbF00            GFSPRS.GrbF21            GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc

```

```
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
```



```
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''''
++ export 'OUTPUT_FILE='\''netcdf'\''''
++ OUTPUT_FILE='\''netcdf'\''''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
```



```
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFR_IN=.false.
++ EFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
```

```
++ RRF5_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
```

```
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
```

```
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
```

```
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
```

```
++ FNSMCC_control='\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'\'\'
++ export 'FNMSKH_control='\'global_slmask.t1534.3072.1536.grb\'\'\'
++ FNMSKH_control='\'global_slmask.t1534.3072.1536.grb\'\'\'
++ export 'FNABSC='\'global_mxsnoalb.uariz.t126.384.190.rg.grb\'\'\'
++ FNABSC='\'global_mxsnoalb.uariz.t126.384.190.rg.grb\'\'\'
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
```



```
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
```

```
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
```

```
++ RUN_END='21001003 000000'  
++ export 'OUT_BEG=20161003 000000'  
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export NPZ=127  
++ NPZ=127  
++ export NPZP=128  
++ NPZP=128  
++ export DT_ATMOS=720  
++ DT_ATMOS=720  
++ export DT_INNER=720  
++ DT_INNER=720  
++ export SYEAR=2021
```

```
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
```

```
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
```

```
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''''
++ FNALBC2='\''C96.facsf.tileX.nc'\''''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''''
++ export 'FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''''
++ FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
```

```
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu bit_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_bit_base
+ export INPUT_DIR=control_p8
```

```
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+ export CNTL_DIR=control_p8_bit_base
+ CNTL_DIR=control_p8_bit_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_bit_base
+ JBNME=opnReqTest_7_bit_base
++ date +%s
+ echo -n 'control_p8_gnu, 1686145047,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_bit_base_control_p8_gnu_bit_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_bit_base_control_p8_gnu_bit_base.log
+ echo 'Test bit_base control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+ cp /home/builder/ufs-weather-model/tests/fv3_bit.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_bit ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spacak.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcos2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
```



```
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
```

```

+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\|/output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\|/output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\|/output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\|/output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\|/output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_o3prdllos.f77 .
+ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat

```

```
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_bit_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
```

```
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
```

```
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
```



```

aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/freezeH20.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -e ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160

```

```
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'mpi'] done compiling std
cases to run: std_base mpi
Running test for std_base
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=15736
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
```

```
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
```

```
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
```

```
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
```

```
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
```

```

++ export 'LIST_FILES=sfcf000.nc                                sfcf021.nc
sfcf024.nc                                atm021.nc
atmf024.nc                                GFSFLX.GrbF21
GFSFLX.GrbF24                             GFSPRS.GrbF21
GFSPRS.GrbF24                             RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc                                sfcf021.nc                                sfcf024.nc
atmf000.nc                                atm021.nc                                atm024.nc
GFSFLX.GrbF00                             GFSFLX.GrbF21                             GFSFLX.GrbF24
GFSPRS.GrbF00                             GFSPRS.GrbF21                             GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc

```

```
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
```



```
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''''
++ export 'OUTPUT_FILE='\''netcdf'\''''
++ OUTPUT_FILE='\''netcdf'\''''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
```



```
++ USE_LW_JACOBIAN=.false.
++ export DAMP_LW_FLUXADJ=.false.
++ DAMP_LW_FLUXADJ=.false.
++ export RRTMGP_LW_PHYS_BLKSZ=2
++ RRTMGP_LW_PHYS_BLKSZ=2
++ export ICLLOUD=0
++ ICLLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
```

```
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
```

```
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
```

```
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
```

```
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
```

```
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb\''''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb\''''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb\''''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb\''''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb\''''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb\''''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb\''''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb\''''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb\''''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb\''''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb\''''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb\''''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb\''''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb\''''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
```



```
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
```

```
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
```

```
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
```

```
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
```

```
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
```

```
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
```

```
++ FNMSKH='\'\'global_slmask.t1534.3072.1536.grb\'\'\'
++ export 'FNVMNC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVMNC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNSLPC='\'\'C96.slope_type.tileX.nc\'\'\'
++ FNSLPC='\'\'C96.slope_type.tileX.nc\'\'\'
++ export 'FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
```

```
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu_std_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_std_base
+ JBNME=opnReqTest_7_std_base
++ date +%s
+ echo -n 'control_p8_gnu, 1686145064,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ echo 'Test std_base control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ mkdir -p
```



```
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\. ]]
```

```
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set -x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\>/output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\>/output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\>/output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\>/output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\>/output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
```

```
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set -x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_h2oprddos.f77
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_o3prddos.f77 .
+ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
```

```
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
```

```
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
```

```
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
```

```
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmglas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
```



```
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011  ']'
++ '[' .false. = .true.  ']'
++ '[' 8 = 8  ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH20.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true.  ']'
+ [[ .false. == .true.  ]]
```

```

+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'rst'] done compiling std
cases to run: std_base rst
Running test for std_base
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=15736
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8

```

```
+ export TEST_NR=std_base
+ TEST_NR=std_base
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: std_base'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_std_base.env
++ export JOB_NR=001
++ JOB_NR=001
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSfv3gfs/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSfv3gfs/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSfv3gfs/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSfv3gfs/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSfv3gfs/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSfv3gfs/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=true
++ CREATE_BASELINE=true
++ export RT_SUFFIX=_std_base
++ RT_SUFFIX=_std_base
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
```

```
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
```

```
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
```

```
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcross2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
```

```

++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ ICE_tasks_cpl_thrd=10
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24            GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24            RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc

```

```
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ LIST_FILES='sfcf000.nc                sfcf021.nc                sfcf024.nc
atmf000.nc                atmf021.nc                atmf024.nc
GFSFLX.GrbF00            GFSFLX.GrbF21            GFSFLX.GrbF24
GFSPRS.GrbF00            GFSPRS.GrbF21            GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
```



```
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
```

```
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
++ WARM_START=.false.
++ export READ_INCREMENT=.false.
++ READ_INCREMENT=.false.
++ export 'RES_LATLON_DYNAMICS='\'''\''
++ RES_LATLON_DYNAMICS='\'''\''
++ export NGGPS_IC=.true.
```

```
++ NNGPS_IC=.true.  
++ export EXTERNAL_IC=.true.  
++ EXTERNAL_IC=.true.  
++ export MAKE_NH=.true.  
++ MAKE_NH=.true.  
++ export MOUNTAIN=.false.  
++ MOUNTAIN=.false.  
++ export NA_INIT=1  
++ NA_INIT=1  
++ export DO_RRTMGP=.false.  
++ DO_RRTMGP=.false.  
++ export DOGP_CLDOPTICS_LUT=.false.  
++ DOGP_CLDOPTICS_LUT=.false.  
++ export DOGP_LWSCAT=.false.  
++ DOGP_LWSCAT=.false.  
++ export USE_LW_JACOBIAN=.false.  
++ USE_LW_JACOBIAN=.false.  
++ export DAMP_LW_FLUXADJ=.false.  
++ DAMP_LW_FLUXADJ=.false.  
++ export RRTMGP_LW_PHYS_BLKSZ=2  
++ RRTMGP_LW_PHYS_BLKSZ=2  
++ export ICLOUD=0  
++ ICLOUD=0  
++ export IAER=111  
++ IAER=111  
++ export ICLIQ_SW=1  
++ ICLIQ_SW=1  
++ export IOVR=1  
++ IOVR=1  
++ export LFNC_K=-999  
++ LFNC_K=-999  
++ export LFNC_P0=-999  
++ LFNC_P0=-999  
++ export IMP_PHYSICS=11  
++ IMP_PHYSICS=11  
++ export NWAT=6  
++ NWAT=6  
++ export DNATS=1  
++ DNATS=1  
++ export DO_SAT_ADJ=.true.  
++ DO_SAT_ADJ=.true.  
++ export LHEATSTRG=.true.  
++ LHEATSTRG=.true.  
++ export LSEASPRAY=.false.
```

```
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFI=10
++ DECFI=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
```

```
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
```

```
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
```

```
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
```

```
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
```



```
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHR0T=0
++ FHR0T=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
```

```
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
```

```
++ ICELINE='$'  
++ export 'WINDLINE=$'  
++ WINDLINE='$'  
++ export 'CURRLINE=$'  
++ CURRLINE='$'  
++ export NFGRIDS=0  
++ NFGRIDS=0  
++ export NMGRIDS=1  
++ NMGRIDS=1  
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''  
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'  
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''  
''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'  
++ export FUNIPNT=T  
++ FUNIPNT=T  
++ export IOSRV=1  
++ IOSRV=1  
++ export FPNTPROC=T  
++ FPNTPROC=T  
++ export FGRDPROC=T  
++ FGRDPROC=T  
++ export UNIPOINTS=points  
++ UNIPOINTS=points  
++ export 'FLAGMASKCOMP= F'  
++ FLAGMASKCOMP=' F'  
++ export 'FLAGMASKOUT= F'  
++ FLAGMASKOUT=' F'  
+++ printf %02d 0  
++ export 'RUN_BEG=20161003 000000'  
++ RUN_BEG='20161003 000000'  
+++ printf %02d 0  
++ export 'RUN_END=21001003 000000'  
++ RUN_END='21001003 000000'  
++ export 'OUT_BEG=20161003 000000'  
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'
```

```
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export NPZ=127  
++ NPZ=127  
++ export NPZP=128  
++ NPZP=128  
++ export DT_ATMOS=720  
++ DT_ATMOS=720  
++ export DT_INNER=720  
++ DT_INNER=720  
++ export SYEAR=2021  
++ SYEAR=2021  
++ export SMONTH=03  
++ SMONTH=03  
++ export SDAY=22  
++ SDAY=22  
++ export SHOUR=06  
++ SHOUR=06  
++ export 'RESTART_INTERVAL=12 -1'  
++ RESTART_INTERVAL='12 -1'  
++ export OUTPUT_GRID=gaussian_grid  
++ OUTPUT_GRID=gaussian_grid  
++ export WRITE_DOPOST=.true.
```

```
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
```

```
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
```

```
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
```

```
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu_std_base'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_std_base
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_std_base
+ JBNME=opnReqTest_7_std_base
++ date +%s
+ echo -n 'control_p8_gnu, 1686145068,'
```



```
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_std_base_control_p8_gnu_std_base.log
+ echo 'Test std_base control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcss2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
```

```
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
```



```
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
```

```
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
```

data-20221101/FV3\_fix\_tiled/C96/C96.slope\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.snowfree\_albedo.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-  
data-20221101/FV3\_fix\_tiled/C96/C96.soil\_type.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile5.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.substrate\_temperature.tile6.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile1.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile2.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile3.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile4.nc  
/home/builder/data/NEMSfv3gfs/input-data-  
20221101/FV3\_fix\_tiled/C96/C96.vegetation\_greenness.tile5.nc

```
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/global_sno clim.1.875.grb
.
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
```



```
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/freezeH2O.dat .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -e ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
```

'dcp']

WARNING from PE 3: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 5: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 7: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 65: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 98: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 1: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 2: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 4: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 6: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 18: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 19: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 20: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 22: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 23: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 29: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 32: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 40: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 41: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 64: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 66: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 73: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 78: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 92: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 16: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 17: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 21: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 25: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 31: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 33: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 37: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 39: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 42: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 43: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 67: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 76: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 79: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 80: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 82: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 86: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 87: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 89: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 93: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 94: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 95: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 96: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 101: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 24: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 26: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 27: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 34: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 35: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 36: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 38: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 72: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 74: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 83: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 85: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 88: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 90: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 91: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 8: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 9: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 10: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 11: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 12: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 13: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16



WARNING from PE 14: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 15: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 0: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 104: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 105: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 48: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 49: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 60: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 61: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 62: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 63: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 50: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 51: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 52: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 53: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 54: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 55: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 59: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 58: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 56: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 57: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 106: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 68: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 70: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 103: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 69: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 71: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 102: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 108: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 109: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 44: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 77: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 107: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 28: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 30: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 81: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 75: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 97: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 99: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 100: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 84: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 46: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 47: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 45: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

```
'rst']  
WARNING from PE      0: MEKE_init: Initializing MEKE with a local equilibrium balance.  
  
WARNING from PE      0: KVML is a deprecated parameter. Use KV_ML_INVZ2 instead.  
  
WARNING from PE      0: set_diffusivity_init: SIMPLE_TKE_TO_KD can not be used reliably  
with USE_REGRIDDING.  
  
WARNING from PE      0: read_field_2d:time level specified, but the variable tideamp does  
not have an unlimited dimension in INPUT/tidal_amplitude.nc  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_INCUPD_FILE =  
"mom6_increment.nc"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_TEMPINC_VAR = "pt_inc"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_SALTINC_VAR = "s_inc"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_THK_VAR = "h_fg"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_UINC_VAR = "u_inc"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_VINC_VAR = "v_inc"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_INCUPD_NHOURS = 6  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : WAVE_METHOD = "SURFACE_BANDS"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : SURFBAND_SOURCE = "COUPLER"  
  
WARNING from PE      0: Unused line in INPUT/MOM_input : STK_BAND_COUPLER = 3
```

WARNING from PE 0: Unused line in INPUT/MOM\_input : SURFBAND\_WAVENUMBERS = 0.04, 0.11, 0.3305

'dbg']

WARNING from PE 0: MEKE\_init: Initializing MEKE with a local equilibrium balance.

WARNING from PE 0: KVML is a deprecated parameter. Use KV\_ML\_INVZ2 instead.

WARNING from PE 0: set\_diffusivity\_init: SIMPLE\_TKE\_TO\_KD can not be used reliably with USE\_REGRIDDING.

WARNING from PE 0: read\_field\_2d:time level specified, but the variable tideamp does not have an unlimited dimension in INPUT/tidal\_amplitude.nc

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_INCUPD\_FILE = "mom6\_increment.nc"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_TEMPINC\_VAR = "pt\_inc"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_SALTINC\_VAR = "s\_inc"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_THK\_VAR = "h\_fg"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_UINC\_VAR = "u\_inc"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_VINC\_VAR = "v\_inc"

WARNING from PE 0: Unused line in INPUT/MOM\_input : ODA\_INCUPD\_NHOURS = 6

WARNING from PE 0: Unused line in INPUT/MOM\_input : WAVE\_METHOD = "SURFACE\_BANDS"



```
+ echo 'TEST_NR: dcp'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dcp.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_dcp.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_dcp
++ RT_SUFFIX=_dcp
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
```



```
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
```

```
++ ICE_thrds_cpl_thrds=1
++ WAV_tasks_cpl_thrds=12
++ WAV_thrds_cpl_thrds=2
++ THRD_cpl_dcpl=1
++ INPES_cpl_dcpl=4
++ JNPES_cpl_dcpl=6
++ WPG_cpl_dcpl=6
++ OCN_tasks_cpl_dcpl=20
++ ICE_tasks_cpl_dcpl=10
++ WAV_tasks_cpl_dcpl=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
```

```
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
```

```
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24                GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
```

```
++ LIST_FILES='sfcf000.nc          sfcf021.nc          sfcf024.nc
atmf000.nc          atmf021.nc          atmf024.nc
GFSFLX.GrbF00      GFSFLX.GrbF21      GFSFLX.GrbF24
GFSPRS.GrbF00      GFSPRS.GrbF21      GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
```

```
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
```

```
++ OUTPUT_FILE='\'netcdf\'\'\'
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
++ WARM_START=.false.
++ export READ_INCREMENT=.false.
++ READ_INCREMENT=.false.
++ export 'RES_LATLON_DYNAMICS='\'\'\'\'\'
++ RES_LATLON_DYNAMICS='\'\'\'\'\'
++ export NGGPS_IC=.true.
++ NGGPS_IC=.true.
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export MOUNTAIN=.false.
++ MOUNTAIN=.false.
++ export NA_INIT=1
```

```
++ NA_INIT=1
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.false.
++ DOGP_CLDOPTICS_LUT=.false.
++ export DOGP_LWSCAT=.false.
++ DOGP_LWSCAT=.false.
++ export USE_LW_JACOBIAN=.false.
++ USE_LW_JACOBIAN=.false.
++ export DAMP_LW_FLUXADJ=.false.
++ DAMP_LW_FLUXADJ=.false.
++ export RRTMGP_LW_PHYS_BLKSZ=2
++ RRTMGP_LW_PHYS_BLKSZ=2
++ export ICLOUD=0
++ ICLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
```



```
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
```

```
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
```

```
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
```

```
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
```

```
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
```

```
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
```

```
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
```

```
++ NMGRIDS=1
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''
''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
```



```
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
```

```
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
```

```
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
```

```
++ FNVEGC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVETC='\'\'C96.vegetation_type.tileX.nc\'\'\'
++ FNVETC='\'\'C96.vegetation_type.tileX.nc\'\'\'
++ export 'FNSOTC='\'\'C96.soil_type.tileX.nc\'\'\'
++ FNSOTC='\'\'C96.soil_type.tileX.nc\'\'\'
++ export 'FNSMCC='\'\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'\'\'
++ FNSMCC='\'\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'\'\'
++ export 'FNMSKH='\'\'global_slmask.t1534.3072.1536.grb\'\'\'
++ FNMSKH='\'\'global_slmask.t1534.3072.1536.grb\'\'\'
++ export 'FNVMNC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVMNC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNSLPC='\'\'C96.slope_type.tileX.nc\'\'\'
++ FNSLPC='\'\'C96.slope_type.tileX.nc\'\'\'
++ export 'FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ FNABSC='\'\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
```

```

++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu dcp'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_dcp
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_dcp
+ JBNME=opnReqTest_7_dcp
++ date +%s
+ echo -n 'control_p8_gnu, 1686145887,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dcp_control_p8_gnu_dcp.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dcp_control_p8_gnu_dcp.log
+ echo 'Test dcp control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s.\s\h ]]

```

```
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcoast2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dcp
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
```

```
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\. ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
```

```
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_h2oprddos.f77
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prddos.f77 .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
```



```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_dcp
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmgl das.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
```

```
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
```

```

++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'thr'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686146170, 4'
+ [[ false = true ]]
+ elapsed=1144

```

```
+ echo 'Elapsed time 1144 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
Running test for thr
    THRD: 2; INPES: 3; JNPES: 1; TPN: 20
+ echo PID=16108
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=thr
+ TEST_NR=thr
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: thr'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_thr.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_thr.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
```



```
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_thr
++ RT_SUFFIX=_thr
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
```

```
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
```

```
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
```

```

++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc          sfcf021.nc
sfcf024.nc          atmf000.nc          atmf021.nc
atmf024.nc          GFSFLX.GrbF00      GFSFLX.GrbF21
GFSFLX.GrbF24      GFSPRS.GrbF00      GFSPRS.GrbF21
GFSPRS.GrbF24      RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc

```

```
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc                sfcf021.nc                sfcf024.nc
atmf000.nc                atmf021.nc                atmf024.nc
GFSFLX.GrbF00            GFSFLX.GrbF21            GFSFLX.GrbF24
GFSPRS.GrbF00            GFSPRS.GrbF21            GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
```

```
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
```

```
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
```

```
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
++ WARM_START=.false.
++ export READ_INCREMENT=.false.
++ READ_INCREMENT=.false.
++ export 'RES_LATLON_DYNAMICS='\'''\''''
++ RES_LATLON_DYNAMICS='\'''\''''
++ export NGGPS_IC=.true.
++ NGGPS_IC=.true.
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export MOUNTAIN=.false.
++ MOUNTAIN=.false.
++ export NA_INIT=1
++ NA_INIT=1
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.false.
++ DOGP_CLDOPTICS_LUT=.false.
++ export DOGP_LWSCAT=.false.
++ DOGP_LWSCAT=.false.
++ export USE_LW_JACOBIAN=.false.
++ USE_LW_JACOBIAN=.false.
++ export DAMP_LW_FLUXADJ=.false.
++ DAMP_LW_FLUXADJ=.false.
++ export RRTMGP_LW_PHYS_BLKSZ=2
++ RRTMGP_LW_PHYS_BLKSZ=2
++ export ICLLOUD=0
++ ICLLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
```



```
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
```

```
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
```

```
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
```

```
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNSFCLAY=.false.
++ DO_MYNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
```

```
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC=''global_snowfree_albedo.bosu.t126.384.190.rg.grb''''
++ FNALBC=''global_snowfree_albedo.bosu.t126.384.190.rg.grb''''
++ export 'FNVETC=''global_vegtype.igbp.t126.384.190.rg.grb''''
++ FNVETC=''global_vegtype.igbp.t126.384.190.rg.grb''''
++ export 'FNSOTC=''global_soiltype.statsgo.t126.384.190.rg.grb''''
++ FNSOTC=''global_soiltype.statsgo.t126.384.190.rg.grb''''
```

```
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
```

```
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
```

```

++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'

```



```
++ RUN_BEG='20161003 000000'  
+++ printf %02d 0  
++ export 'RUN_END=21001003 000000'  
++ RUN_END='21001003 000000'  
++ export 'OUT_BEG=20161003 000000'  
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export NPZ=127  
++ NPZ=127  
++ export NPZP=128  
++ NPZP=128  
++ export DT_ATMOS=720  
++ DT_ATMOS=720
```

```
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
```

```
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
```

```
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
```

```
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
```

```
+ echo 'Removing test failure flag file for control_p8_gnu_thr'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_thr
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_thr
+ JBNME=opnReqTest_7_thr
++ date +%s
+ echo -n 'control_p8_gnu, 1686146170,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_thr_control_p8_gnu_thr.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_thr_control_p8_gnu_thr.log
+ echo 'Test thr control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spacak.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
```

```
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_thr
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\ . ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
```





```
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_thr
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSFV3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_sno clim.1.875.grb
.
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
```

```
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
```

```

aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/freezeH20.dat .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -e ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160

```

```

+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'mpi'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686146242, 4'
+ [[ false = true ]]
+ elapsed=1178
+ echo 'Elapsed time 1178 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
Running test for mpi
    THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=16108
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=mpi
+ TEST_NR=mpi
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'

```



```
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: mpi'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_mpi.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_mpi.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_mpi
++ RT_SUFFIX=_mpi
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
```

```
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
```

```
++ OCN_thrds_cpl_thrds=1
++ ICE_tasks_cpl_thrds=10
++ ICE_thrds_cpl_thrds=1
++ WAV_tasks_cpl_thrds=12
++ WAV_thrds_cpl_thrds=2
++ THRD_cpl_dcpl=1
++ INPES_cpl_dcpl=4
++ JNPES_cpl_dcpl=6
++ WPG_cpl_dcpl=6
++ OCN_tasks_cpl_dcpl=20
++ ICE_tasks_cpl_dcpl=10
++ WAV_tasks_cpl_dcpl=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
```

```
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
```

```
++ ICE_tasks_cpl_thrd=10
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc          sfcf021.nc
sfcf024.nc          atmf000.nc          atmf021.nc
atmf024.nc          GFSFLX.GrbF00      GFSFLX.GrbF21
GFSFLX.GrbF24      GFSPRS.GrbF00      GFSPRS.GrbF21
GFSPRS.GrbF24      RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
```

```
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ LIST_FILES='sfcf000.nc                sfcf021.nc                sfcf024.nc
atmf000.nc                atmf021.nc                atmf024.nc
GFSFLX.GrbF00            GFSFLX.GrbF21            GFSFLX.GrbF24
GFSPRS.GrbF00            GFSPRS.GrbF21            GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
```

```
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
```

```
++ OUTPUT_GRID='\'cubed_sphere_grid\''
++ export 'OUTPUT_FILE='\'netcdf\''
++ OUTPUT_FILE='\'netcdf\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
++ WARM_START=.false.
++ export READ_INCREMENT=.false.
++ READ_INCREMENT=.false.
++ export 'RES_LATLON_DYNAMICS='\''\''
++ RES_LATLON_DYNAMICS='\''\''
++ export NGGPS_IC=.true.
++ NGGPS_IC=.true.
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export MOUNTAIN=.false.
```



```
++ MOUNTAIN=.false.  
++ export NA_INIT=1  
++ NA_INIT=1  
++ export DO_RRTMGP=.false.  
++ DO_RRTMGP=.false.  
++ export DOGP_CLDOPTICS_LUT=.false.  
++ DOGP_CLDOPTICS_LUT=.false.  
++ export DOGP_LWSCAT=.false.  
++ DOGP_LWSCAT=.false.  
++ export USE_LW_JACOBIAN=.false.  
++ USE_LW_JACOBIAN=.false.  
++ export DAMP_LW_FLUXADJ=.false.  
++ DAMP_LW_FLUXADJ=.false.  
++ export RRTMGP_LW_PHYS_BLKSZ=2  
++ RRTMGP_LW_PHYS_BLKSZ=2  
++ export ICLLOUD=0  
++ ICLLOUD=0  
++ export IAER=111  
++ IAER=111  
++ export ICLIQ_SW=1  
++ ICLIQ_SW=1  
++ export IOVR=1  
++ IOVR=1  
++ export LFNC_K=-999  
++ LFNC_K=-999  
++ export LFNC_P0=-999  
++ LFNC_P0=-999  
++ export IMP_PHYSICS=11  
++ IMP_PHYSICS=11  
++ export NWAT=6  
++ NWAT=6  
++ export DNATS=1  
++ DNATS=1  
++ export DO_SAT_ADJ=.true.  
++ DO_SAT_ADJ=.true.  
++ export LHEATSTRG=.true.  
++ LHEATSTRG=.true.  
++ export LSEASPRAY=.false.  
++ LSEASPRAY=.false.  
++ export LGFDLMPRAD=.false.  
++ LGFDLMPRAD=.false.  
++ export EFFR_IN=.false.  
++ EFFR_IN=.false.  
++ export LRADAR=.true.
```

```
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
```

```
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
```

```
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
```

```
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
```

```
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
```

```
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
```





```
++ NFGIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
```

```
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
```

```
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
```

```
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''''
++ FNALBC2='\''C96.facsf.tileX.nc'\''''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''''
```

```
++ FNTG3C='\'C96.substrate_temperature.tileX.nc\'\'\'
++ export 'FNVEGC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVEGC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVETC='\'C96.vegetation_type.tileX.nc\'\'\'
++ FNVETC='\'C96.vegetation_type.tileX.nc\'\'\'
++ export 'FNSOTC='\'C96.soil_type.tileX.nc\'\'\'
++ FNSOTC='\'C96.soil_type.tileX.nc\'\'\'
++ export 'FNSMCC='\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'\'\'
++ FNSMCC='\'global_soilmgldas.statsgo.t1534.3072.1536.grb\'\'\'
++ export 'FNMSKH='\'global_slmask.t1534.3072.1536.grb\'\'\'
++ FNMSKH='\'global_slmask.t1534.3072.1536.grb\'\'\'
++ export 'FNMVNC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNMVNC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNMVXC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNMVXC='\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNSLPC='\'C96.slope_type.tileX.nc\'\'\'
++ FNSLPC='\'C96.slope_type.tileX.nc\'\'\'
++ export 'FNABSC='\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ FNABSC='\'C96.maximum_snow_albedo.tileX.nc\'\'\'
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
```

```
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu mpi'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_mpi
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_mpi
+ JBNME=opnReqTest_7_mpi
++ date +%s
+ echo -n 'control_p8_gnu, 1686146242,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_mpi_control_p8_gnu_mpi.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_mpi_control_p8_gnu_mpi.log
+ echo 'Test mpi control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
```



```
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.t\r\u\e\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
```



```
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prdlos.f77 .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_mpi
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
```

```
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -> ']'
++ '[' .false. = .true. -> ']'
```

```

++ '[' 8 = 8 ']'
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4
+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'rst'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686146271, 4'

```



```
+ [[ false = true ]]
+ elapsed=1203
+ echo 'Elapsed time 1203 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
Running test for rst
    THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=16178
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=control_p8
+ TEST_NAME=control_p8
+ export TEST_NR=rst
+ TEST_NR=rst
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: control_p8'
+ echo 'TEST_NR: rst'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_rst.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_rst.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
```

```
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFv3gfs/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFv3gfs/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_rst
++ RT_SUFFIX=_rst
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_control_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
```

```
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
```

```
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
```

```

++ wav_omp_num_threads=1
++ [[ linux = wcross2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/control_p8
++ export 'TEST_DESCR=Compare global control results with previous trunk version'
++ TEST_DESCR='Compare global control results with previous trunk version'
++ export CNTL_DIR=control_p8
++ CNTL_DIR=control_p8
++ export 'LIST_FILES=sfcf000.nc                sfcf021.nc
sfcf024.nc                atmf000.nc                atmf021.nc
atmf024.nc                GFSFLX.GrbF00                GFSFLX.GrbF21
GFSFLX.GrbF24                GFSPRS.GrbF00                GFSPRS.GrbF21
GFSPRS.GrbF24                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc

```

```
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ LIST_FILES='sfcf000.nc          sfcf021.nc          sfcf024.nc
atmf000.nc          atmf021.nc          atmf024.nc
GFSFLX.GrbF00      GFSFLX.GrbF21      GFSFLX.GrbF24
GFSPRS.GrbF00      GFSPRS.GrbF21      GFSPRS.GrbF24
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
```

```
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
```

```
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\"'atm'\"' '\"'sfc'\"''
++ FILENAME_BASE='\"'atm'\"' '\"'sfc'\"''
++ export 'OUTPUT_GRID='\"'cubed_sphere_grid'\"''
++ OUTPUT_GRID='\"'cubed_sphere_grid'\"''
++ export 'OUTPUT_FILE='\"'netcdf'\"''
++ OUTPUT_FILE='\"'netcdf'\"''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
```





```
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFRF_IN=.false.
++ EFRF_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
```

```
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
```

```
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
```

```
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
```

```
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
```

```
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.grb'\''
++ FNSMCC='\''global_soilmgldas.t126.384.190.grb'\''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
```

```
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDP_TYPE=0
++ LNDP_TYPE=0
++ export N_VAR_LNDP=0
++ N_VAR_LNDP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
```



```
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
```

```
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
```

```
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export OUTPUT_GRID=gaussian_grid
++ OUTPUT_GRID=gaussian_grid
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
```

```
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,1,0,0,0
++ NSTF_NAME=2,1,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
```

```
++ export NCELLS=5
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export TILEDFIX=.true.
++ TILEDFIX=.true.
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
```

```
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
++ FSICS=0
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export DNATS=0
++ DNATS=0
++ export DZ_MIN=6
++ DZ_MIN=6
++ export MIN_SEAICE=0.15
++ MIN_SEAICE=0.15
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export USE_CICE_ALB=.false.
++ USE_CICE_ALB=.false.
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export FV3_RUN=control_run.IN
++ FV3_RUN=control_run.IN
++ export CCPP_SUITE=FV3_GFS_v17_p8
++ CCPP_SUITE=FV3_GFS_v17_p8
++ export FIELD_TABLE=field_table_thompson_noaero_tke
++ FIELD_TABLE=field_table_thompson_noaero_tke
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
```

```
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for control_p8_gnu rst'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_rst
+ export INPUT_DIR=control_p8
+ INPUT_DIR=control_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ export CNTL_DIR=control_p8_std_base
+ CNTL_DIR=control_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_rst
+ JBNME=opnReqTest_7_rst
++ date +%s
+ echo -n 'control_p8_gnu, 1686146271,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_rst_control_p8_gnu_rst.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_rst_control_p8_gnu_rst.log
+ echo 'Test rst control_p8_gnu Compare global control results with previous trunk
version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
```

```
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
+ '[' '!' -z control_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=144
+ [[ .true. = \.\t\r\u\e\.\ ]]
+ ATM_io_tasks=6
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
+ ATM_io_tasks=6
+ [[ 150 -gt 0 ]]
+ atm_petlist_bounds='0 149'
+ n=150
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 143'
+ med_petlist_bounds='0 143'
+ aqm_petlist_bounds='0 143'
```



```
+ [[ 0 -gt 0 ]]
+ UFS_tasks=150
+ echo 'ATM_petlist_bounds: 0 149'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 143'
+ echo 'MED_petlist_bounds: 0 143'
+ echo 'AQM_petlist_bounds: 0 143'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks      : 150'
+ export TASKS=150
+ TASKS=150
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_p8_template != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_thompson_noaero_tke != Q ]]
+ cp /home/builder/ufs-weather-
model/tests/parm/field_table/field_table_thompson_noaero_tke field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_h2oprldlos.f77
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prldlos.f77 .
+ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/aerosol.dat
```

```

/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH20.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .true. != .true. ]]
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -fr INPUT RESTART
++ '[' 97 = 97 ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_rst
++ '[' .false. = .false. ']'
++ mkdir INPUT RESTART
++ cp -r /home/builder/data/NEMSfv3gfs/input-data-

```

```
20221101/FV3_input_data/INPUT_L127/C96_grid.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_grid.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/C96_mosaic.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_ctrl.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_input_data/INPUT_L127/gfs_data.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/gfs_data.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data/INPUT_L127/grid_spec.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/sfc_data.tile6.nc ./INPUT/.
++ '[' .true. = .true. ']'
++ '[' .false. == .true. ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
```

```
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
```

```
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_glacier.2x2.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_maxice.2x2.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/global_snoclim.1.875.grb
.
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ '[' .false. = .true. ']'
++ [[ global = \g\l\o\b\a\l ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_gfs itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs.txt postxconfig-
```

NT.txt

```
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-gfs_FH00.txt
postxconfig-NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
++ '[' .false. = .true. ']'
++ '[' .true. = .true. ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m01.nc
aerochim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m02.nc
aerochim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m03.nc
aerochim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m04.nc
aerochim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m05.nc
aerochim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m06.nc
aerochim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m07.nc
aerochim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m08.nc
aerochim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m09.nc
aerochim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
```

```

++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m11.nc
aeroclim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' 1011 = 2011 -e ']'
++ '[' .false. = .true. -e ']'
++ '[' 8 = 8 -e ']'
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat .
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ '[' .false. = .true. -e ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ NODES=4

```



```

+ export NODES
+ TASKS=160
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 160 ./fv3.exe
++ tee err
++ mpiexec -n 160 ./fv3.exe
'bit'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686146464, 4'
+ [[ false = true ]]
+ elapsed=1417
+ echo 'Elapsed time 1417 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_bit_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_bit_base
Checking test bit_base control_p8_gnu results ....
Moving baseline bit_base control_p8_gnu files ....
  Moving sfcf000.nc .....OK
  Moving sfcf021.nc .....OK
  Moving sfcf024.nc .....OK
  Moving atmf000.nc .....OK
  Moving atmf021.nc .....OK
  Moving atmf024.nc .....OK
  Moving GFSFLX.GrbF00 .....OK
  Moving GFSFLX.GrbF21 .....OK

```

```
Moving GFSFLX.GrbF24 .....OK
Moving GFSPRS.GrbF00 .....OK
Moving GFSPRS.GrbF21 .....OK
Moving GFSPRS.GrbF24 .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

The total amount of wall time = 1404.678921

The maximum resident set size (KB) = 1254176

Test bit\_base control\_p8\_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 00h:26m:26s. Have a nice day!



```
    THRD: 2; INPES: 5; JNPES: 11; TPN: 20
+ echo PID=15992
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=regional_control
+ TEST_NAME=regional_control
+ export TEST_NR=thr
+ TEST_NR=thr
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: regional_control'
+ echo 'TEST_NR: thr'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_thr.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_thr.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
```

```
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_thr
++ RT_SUFFIX=_thr
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
```

```
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
```

```
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
```

```

++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thrd=3
++ JNPES_thrd=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ ICE_tasks_cpl_thrd=10
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/regional_control
++ export 'TEST_DESCR=Compare FV3 regional control results with previous trunk version'
++ TEST_DESCR='Compare FV3 regional control results with previous trunk version'
++ export CNTL_DIR=regional_control
++ CNTL_DIR=regional_control
++ export 'LIST_FILES=dynf000.nc                dynf006.nc
phyf000.nc                phyf006.nc                PRSLEV.GrbF00
PRSLEV.GrbF06            NATLEV.GrbF00                NATLEV.GrbF06'
++ LIST_FILES='dynf000.nc                dynf006.nc                phyf000.nc
phyf006.nc                PRSLEV.GrbF00                PRSLEV.GrbF06
NATLEV.GrbF00            NATLEV.GrbF06'
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false

```



```
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
```



```
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.false.
++ DOGP_CLDOPTICS_LUT=.false.
++ export DOGP_LWSCAT=.false.
++ DOGP_LWSCAT=.false.
++ export USE_LW_JACOBIAN=.false.
++ USE_LW_JACOBIAN=.false.
++ export DAMP_LW_FLUXADJ=.false.
++ DAMP_LW_FLUXADJ=.false.
++ export RRTMGP_LW_PHYS_BLKSZ=2
++ RRTMGP_LW_PHYS_BLKSZ=2
++ export ICLLOUD=0
++ ICLLOUD=0
++ export IAER=111
++ IAER=111
++ export ICLIQ_SW=1
++ ICLIQ_SW=1
++ export IOVR=1
++ IOVR=1
++ export LFNC_K=-999
++ LFNC_K=-999
++ export LFNC_P0=-999
++ LFNC_P0=-999
++ export IMP_PHYSICS=11
++ IMP_PHYSICS=11
++ export NWAT=6
++ NWAT=6
++ export DNATS=1
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
```

```
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
```

```
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
```

```
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNSFCLAY=.false.
++ DO_MYNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
```

```
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
```

```
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
```



```
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDRP_TYPE=0
++ LNDRP_TYPE=0
++ export N_VAR_LNDRP=0
++ N_VAR_LNDRP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDRP_VAR_LIST='\''XXX'\''
++ LNDRP_VAR_LIST='\''XXX'\''
++ export LNDRP_PRT_LIST=-999
++ LNDRP_PRT_LIST=-999
++ export LNDRP_MODEL_TYPE=0
++ LNDRP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
```

```
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'''
```

```
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'  
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''  
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'  
++ export FUNIPNT=T  
++ FUNIPNT=T  
++ export IOSRV=1  
++ IOSRV=1  
++ export FPNTPROC=T  
++ FPNTPROC=T  
++ export FGRDPROC=T  
++ FGRDPROC=T  
++ export UNIPOINTS=points  
++ UNIPOINTS=points  
++ export 'FLAGMASKCOMP= F'  
++ FLAGMASKCOMP=' F'  
++ export 'FLAGMASKOUT= F'  
++ FLAGMASKOUT=' F'  
+++ printf %02d 0  
++ export 'RUN_BEG=20161003 000000'  
++ RUN_BEG='20161003 000000'  
+++ printf %02d 0  
++ export 'RUN_END=21001003 000000'  
++ RUN_END='21001003 000000'  
++ export 'OUT_BEG=20161003 000000'  
++ OUT_BEG='20161003 000000'  
++ export 'OUT_END=21001003 000000'  
++ OUT_END='21001003 000000'  
++ export 'RST_BEG=20161003 000000'  
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true
```

```
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export FV3_RUN=regional_run.IN
++ FV3_RUN=regional_run.IN
++ export OZ_PHYS_OLD=.false.
++ OZ_PHYS_OLD=.false.
++ export OZ_PHYS_NEW=.true.
++ OZ_PHYS_NEW=.true.
++ export H2O_PHYS=.true.
++ H2O_PHYS=.true.
++ export HYBEDMF=.false.
++ HYBEDMF=.false.
++ export 'RESTART_INTERVAL=3 -1'
++ RESTART_INTERVAL='3 -1'
++ export WRITE_DOPOST=.true.
++ WRITE_DOPOST=.true.
++ export POSTAPP=lam
++ POSTAPP=lam
++ export CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ export INPUT_NML=regional.nml.IN
++ INPUT_NML=regional.nml.IN
++ export MODEL_CONFIGURE=model_configure_regional.IN
++ MODEL_CONFIGURE=model_configure_regional.IN
++ export DIAG_TABLE=diag_table_lam
++ DIAG_TABLE=diag_table_lam
++ export FIELD_TABLE=field_table_regional
++ FIELD_TABLE=field_table_regional
++ export WLCLK=15
++ WLCLK=15
++ export FHMAX=6
++ FHMAX=6
++ export INPES=10
```

```
++ INPES=10
++ export JNPES=11
++ JNPES=11
++ export 'OUTPUT_FH=3 -1'
++ OUTPUT_FH='3 -1'
++ WRITE_GROUP=1
++ WRTTASK_PER_GROUP=10
++ NTILES=1
+ remove_fail_test
+ echo 'Removing test failure flag file for regional_control_gnu_thr'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_thr
+ export INPUT_DIR=regional_control
+ INPUT_DIR=regional_control
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+ export CNTL_DIR=regional_control_std_base
+ CNTL_DIR=regional_control_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_thr
+ JBNME=opnReqTest_7_thr
++ date +%s
+ echo -n 'regional_control_gnu, 1686146882,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_thr_regional_control_gnu_thr.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_thr_regional_control_gnu_thr.log
+ echo 'Test thr regional_control_gnu Compare FV3 regional control results with previous
trunk version'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\u\ti\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
```

```
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
+ '[' '!' -z regional_run.IN ']'
+ for i in ${FV3_RUN}
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ -f /home/builder/ufs-weather-model/tests/parm/model_configure_regional.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\a\l\s\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=110
+ [[ .true. = \.\t\r\u\e\ ]]
+ ATM_io_tasks=10
+ local n=0
+ unset atm_petlist_bounds ocn_petlist_bounds ice_petlist_bounds wav_petlist_bounds
chm_petlist_bounds med_petlist_bounds aqm_petlist_bounds
```

```
+ ATM_io_tasks=10
+ [[ 120 -gt 0 ]]
+ atm_petlist_bounds='0 119'
+ n=120
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ [[ 0 -gt 0 ]]
+ chm_petlist_bounds='0 109'
+ med_petlist_bounds='0 109'
+ aqm_petlist_bounds='0 109'
+ [[ 0 -gt 0 ]]
+ UFS_tasks=120
+ echo 'ATM_petlist_bounds: 0 119'
+ echo 'OCN_petlist_bounds: '
+ echo 'ICE_petlist_bounds: '
+ echo 'WAV_petlist_bounds: '
+ echo 'CHM_petlist_bounds: 0 109'
+ echo 'MED_petlist_bounds: 0 109'
+ echo 'AQM_petlist_bounds: 0 109'
+ echo 'LND_petlist_bounds: '
+ echo 'UFS_tasks          : 120'
+ export TASKS=120
+ TASKS=120
+ [[ -f /home/builder/ufs-weather-model/tests/parm/nems.configure.atm.IN ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -x ]
+ __set_x='set -x'
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_lam != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -x ]
+ __set_x='set -x'
```

```
+ set +x
+ [[ Qfield_table_regional != Q ]]
+ cp /home/builder/ufs-weather-model/tests/parm/field_table/field_table_regional
field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprddos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prddos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
```



```
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -rf INPUT RESTART
++ mkdir INPUT RESTART
++ rsync -arv /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_regional/INPUT/.
INPUT/.
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m11.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' .false. = .true. ']'
++ '[' .false. = .true. ']'
++ [[ lam = \l\a\m ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_fv3lam itag
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
```

```
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ export NODES
+ TASKS=120
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 120 ./fv3.exe
++ tee err
++ mpiexec -n 120 ./fv3.exe
```

```
WARNING from PE 30: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 32: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 54: atmos_modeldefine_blocks_packed: domain ( 32 16) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 8
```

```
WARNING from PE 70: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 72: atmos_modeldefine_blocks_packed: domain ( 32 17) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 12
```

```
WARNING from PE 19: atmos_modeldefine_blocks_packed: domain ( 32 18) is not an even
divisor with definition ( 28) - blocks will not be uniform with a remainder of 16
```

WARNING from PE 28: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 51: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 52: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 53: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 56: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 58: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 60: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 62: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 63: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 66: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 77: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 82: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 1: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 2: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 18: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 21: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 33: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 36: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 40: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 44: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 47: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 49: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 55: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 59: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 64: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 65: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 67: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 68: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 69: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 76: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 80: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 83: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 84: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 85: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 86: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 92: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 93: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 94: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 96: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 98: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 16: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 20: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 24: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 25: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 26: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 27: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 39: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 41: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 42: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 43: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 45: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 46: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 48: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 50: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 71: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12



WARNING from PE 73: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 74: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 75: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 79: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 81: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 87: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 88: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 89: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 90: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 91: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 95: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 102: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 61: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 23: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 0: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 3: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 103: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 38: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 17: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 7: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 4: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 5: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 6: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 8: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 13: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 14: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 15: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 12: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 34: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 97: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 37: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 104: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 22: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 29: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 99: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 101: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 105: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 106: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 31: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 57: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 78: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 35: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 100: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 9: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 10: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even



```
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF21 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF21 .....OK
Comparing GFSPRS.GrbF24 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

The total amount of wall time = 1120.490428

The maximum resident set size (KB) = 1240388

Test dcp\_control\_p8\_gnu PASS

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
Checking test std_base control_p8_gnu results ....
Moving baseline std_base control_p8_gnu files ....
Moving sfcf000.nc .....OK
Moving sfcf021.nc .....OK
Moving sfcf024.nc .....OK
Moving atmf000.nc .....OK
Moving atmf021.nc .....OK
Moving atmf024.nc .....OK
Moving GFSFLX.GrbF00 .....OK
Moving GFSFLX.GrbF21 .....OK
Moving GFSFLX.GrbF24 .....OK
Moving GFSPRS.GrbF00 .....OK
Moving GFSPRS.GrbF21 .....OK
Moving GFSPRS.GrbF24 .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
```

```
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

```
The total amount of wall time           = 1140.188727
The maximum resident set size (KB)     = 1244360
```

```
Test std_base control_p8_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 00h:40m:58s. Have a nice day!
```

```
opnReqTest finished
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
Post stage
```

```
[Pipeline] sh
```

```
'dcp'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 69e47860052c
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:69e47860052c0e5a51851bf27b35ebf11abc329bb8f79c94fa8a70be329f812a
```

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 06d1be41bd15
```

```
Untagged: noaaepic/input-data:20221101
```

```
Untagged: noaaepic/input-
```

```
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
```

```
Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181
```

```
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
```

```
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

```
[Pipeline] // node
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```



```
[Pipeline] // stage
[Pipeline] }
'dcp'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686147112, 3'
+ [[ false = true ]]
+ elapsed=2083
+ echo 'Elapsed time 2083 seconds. Test regional_control_gnu'
+ '[' 0 -eq 0 ']'
Running test for dcp
    THRD: 1; INPES: 5; JNPES: 12; TPN: 40
+ echo PID=15993
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ export TEST_NAME=regional_control
+ TEST_NAME=regional_control
+ export TEST_NR=dcp
+ TEST_NR=dcp
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8'
+ echo 'TEST_NAME: regional_control'
+ echo 'TEST_NR: dcp'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/run_test_dcp.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/run_test_dcp.env
++ export JOB_NR=002
```

```
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-
20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_dcp
++ RT_SUFFIX=_dcp
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_regional_control_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
```

```
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cpl_atmw=1
++ INPES_cpl_atmw=3
++ JNPES_cpl_atmw=8
++ WPG_cpl_atmw=6
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
```

```
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
```

```
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thr=3
++ JNPES_thr=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thr=2
++ INPES_cpl_thr=3
++ JNPES_cpl_thr=4
++ WPG_cpl_thr=6
++ OCN_tasks_cpl_thr=20
++ ICE_tasks_cpl_thr=10
++ WAV_tasks_cpl_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/regional_control
++ export 'TEST_DESCR=Compare FV3 regional control results with previous trunk version'
++ TEST_DESCR='Compare FV3 regional control results with previous trunk version'
++ export CNTL_DIR=regional_control
++ CNTL_DIR=regional_control
```

```
++ export 'LIST_FILES=dynf000.nc                dynf006.nc
phyf000.nc                phyf006.nc                PRSLEV.GrbF00
PRSLEV.GrbF00                NATLEV.GrbF00                NATLEV.GrbF06 '
++ LIST_FILES='dynf000.nc                dynf006.nc                phyf000.nc
phyf006.nc                PRSLEV.GrbF00                PRSLEV.GrbF06
NATLEV.GrbF00                NATLEV.GrbF06 '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
```

```
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\'atm\'\' \'sfc\'\'\'
++ FILENAME_BASE='\'atm\'\' \'sfc\'\'\'
++ export 'OUTPUT_GRID='\'cubed_sphere_grid\'\'\'
++ OUTPUT_GRID='\'cubed_sphere_grid\'\'\'
++ export 'OUTPUT_FILE='\'netcdf\'\'\'
++ OUTPUT_FILE='\'netcdf\'\'\'
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
++ ICHUNK3D=0
++ export JCHUNK3D=0
++ JCHUNK3D=0
++ export KCHUNK3D=0
++ KCHUNK3D=0
++ export IMO=384
++ IMO=384
++ export JMO=190
++ JMO=190
++ export WRITE_NSFLIP=.false.
++ WRITE_NSFLIP=.false.
++ export DIAG_TABLE=diag_table_gfsv16
++ DIAG_TABLE=diag_table_gfsv16
++ export FIELD_TABLE=field_table_gfsv16
++ FIELD_TABLE=field_table_gfsv16
++ export DOMAINS_STACK_SIZE=3000000
++ DOMAINS_STACK_SIZE=3000000
++ export MODEL_INITIALIZATION=false
++ MODEL_INITIALIZATION=false
++ export WARM_START=.false.
```





```
++ DNATS=1
++ export DO_SAT_ADJ=.true.
++ DO_SAT_ADJ=.true.
++ export LHEATSTRG=.true.
++ LHEATSTRG=.true.
++ export LSEASPRAY=.false.
++ LSEASPRAY=.false.
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export EFFR_IN=.false.
++ EFFR_IN=.false.
++ export LRADAR=.true.
++ LRADAR=.true.
++ export LTAEROSOL=.true.
++ LTAEROSOL=.true.
++ export EXT_DIAG_THOMPSON=.false.
++ EXT_DIAG_THOMPSON=.false.
++ export SEDI_SEMI=.true.
++ SEDI_SEMI=.true.
++ export DECFL=10
++ DECFL=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHAH=0.0
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
```

```
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
```

```
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1:0.5", "seas2:0.5", "seas3:0.5", "seas4:0.5", "seas5:0.5"'
++
FSCAV_AERO='*:0.3", "so2:0.0", "msa:0.0", "dms:0.0", "nh3:0.4", "nh4:0.6", "bc1:0.6", "bc2:0.6", "oc1:0.4", "oc2:0.4", "dust1:0.6", "dust2:0.6", "dust3:0.6", "dust4:0.6", "dust5:0.6", "seas1
```

```
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNNSFCLAY=.false.
++ DO_MYNNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
```

```
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.rg.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.rg.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.rg.grb\''
++ export 'FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ FNSMCC='\global_soilmgldas.t126.384.190.rg.grb\''
++ export 'FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.grb\''
++ export 'FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.rg.grb\''
++ export ATMRES=C96
```

```
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDRP_TYPE=0
++ LNDRP_TYPE=0
++ export N_VAR_LNDRP=0
++ N_VAR_LNDRP=0
```

```
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDP_VAR_LIST='\''XXX'\''
++ LNDP_VAR_LIST='\''XXX'\''
++ export LNDP_PRT_LIST=-999
++ LNDP_PRT_LIST=-999
++ export LNDP_MODEL_TYPE=0
++ LNDP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
```

```
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\''
'\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
```



```
++ RST_BEG='20161003 000000'  
++ export 'RST_2_BEG=20161003 000000'  
++ RST_2_BEG='20161003 000000'  
++ export 'RST_END=21001003 000000'  
++ RST_END='21001003 000000'  
++ export 'RST_2_END=21001003 000000'  
++ RST_2_END='21001003 000000'  
++ export WAV_CUR=F  
++ WAV_CUR=F  
++ export WAV_ICE=F  
++ WAV_ICE=F  
++ export WAV_IC1=F  
++ WAV_IC1=F  
++ export WAV_IC5=F  
++ WAV_IC5=F  
++ export MULTIGRID=true  
++ MULTIGRID=true  
++ export MODDEF_WAV=mod_def.glo_1deg  
++ MODDEF_WAV=mod_def.glo_1deg  
++ export MESH_WAV=mesh.glo_1deg.nc  
++ MESH_WAV=mesh.glo_1deg.nc  
++ export AOD_FRQ=060000  
++ AOD_FRQ=060000  
++ export WRITE_RESTART_WITH_BCS=.false.  
++ WRITE_RESTART_WITH_BCS=.false.  
++ export PRINT_DIFF_PGR=.false.  
++ PRINT_DIFF_PGR=.false.  
++ export coupling_interval_fast_sec=0  
++ coupling_interval_fast_sec=0  
++ export FV3_RUN=regional_run.IN  
++ FV3_RUN=regional_run.IN  
++ export OZ_PHYS_OLD=.false.  
++ OZ_PHYS_OLD=.false.  
++ export OZ_PHYS_NEW=.true.  
++ OZ_PHYS_NEW=.true.  
++ export H2O_PHYS=.true.  
++ H2O_PHYS=.true.  
++ export HYBEDMF=.false.  
++ HYBEDMF=.false.  
++ export 'RESTART_INTERVAL=3 -1'  
++ RESTART_INTERVAL='3 -1'  
++ export WRITE_DOPOST=.true.  
++ WRITE_DOPOST=.true.  
++ export POSTAPP=lam
```

```
++ POSTAPP=lam
++ export CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ CCPP_SUITE=FV3_GFS_v15_thompson_mynn_lam3km
++ export INPUT_NML=regional.nml.IN
++ INPUT_NML=regional.nml.IN
++ export MODEL_CONFIGURE=model_configure_regional.IN
++ MODEL_CONFIGURE=model_configure_regional.IN
++ export DIAG_TABLE=diag_table_lam
++ DIAG_TABLE=diag_table_lam
++ export FIELD_TABLE=field_table_regional
++ FIELD_TABLE=field_table_regional
++ export WLCLK=15
++ WLCLK=15
++ export FHMAX=6
++ FHMAX=6
++ export INPES=10
++ INPES=10
++ export JNPES=11
++ JNPES=11
++ export 'OUTPUT_FH=3 -1'
++ OUTPUT_FH='3 -1'
++ WRITE_GROUP=1
++ WRTTASK_PER_GROUP=10
++ NTILES=1
+ remove_fail_test
+ echo 'Removing test failure flag file for regional_control_gnu dcp'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_dcp
+ export INPUT_DIR=regional_control
+ INPUT_DIR=regional_control
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_dcp
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_dcp
+ export CNTL_DIR=regional_control_std_base
+ CNTL_DIR=regional_control_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8
+ export JBNME=opnReqTest_8_dcp
+ JBNME=opnReqTest_8_dcp
++ date +%s
+ echo -n 'regional_control_gnu, 1686147112,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dcp_regional_control_gnu_dcp.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_dcp_regional_control_gnu_dcp.log
```





```
+ set +x
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_02>/,/<\output_grid_02>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_03>/,/<\output_grid_03>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_04>/,/<\output_grid_04>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_05>/,/<\output_grid_05>/d' model_configure
+ [[ Q != Q ]]
+ sed -i -e '/<output_grid_06>/,/<\output_grid_06>/d' model_configure
+ [[ Qdiag_table_lam != Q ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ [[ Qfield_table_regional != Q ]]
+ cp /home/builder/ufs-weather-model/tests/parm/field_table/field_table_regional
field_table
+ [[ true == true ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/sfc_emissivity_idx.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/solarconstant_noaa_an.txt .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_h2oprdlos.f77
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdos.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ rm -rf INPUT RESTART
++ mkdir INPUT RESTART
++ rsync -arv /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_regional/INPUT/.
INPUT/.
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m01.nc
aeroclim.m01.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aeroclim.m02.nc
```

```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aeroclim.m03.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aeroclim.m04.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aeroclim.m05.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aeroclim.m06.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aeroclim.m07.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aeroclim.m08.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aeroclim.m09.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aeroclim.m10.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m11.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aeroclim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' .false. = .true. ']'
++ '[' .false. = .true. ']'
++ [[ lam = \1\a\m ]]
++ cp /home/builder/ufs-weather-model/tests/parm/post_itag_fv3lam itag
```

```
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT.txt
++ cp /home/builder/ufs-weather-model/tests/parm/postxconfig-NT-fv3lam.txt postxconfig-
NT_FH00.txt
++ cp /home/builder/ufs-weather-model/tests/parm/params_grib2_tbl_new
params_grib2_tbl_new
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ [[ Q != Q ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ false = \t\r\u\e ]]
+ TPN=40
+ (( TASKS < TPN ))
+ export TPN
+ NODES=3
+ (( NODES * TPN < TASKS ))
+ export NODES
+ TASKS=120
+ export TASKS
+ [[ none = \p\b\s ]]
+ [[ none = \s\l\u\r\m ]]
+ [[ none = \l\s\f ]]
+ export OMP_ENV=
+ OMP_ENV=
+ [[ none = \n\o\n\e ]]
+ ulimit -s unlimited
+ [[ true = \t\r\u\e ]]
+ eval mpiexec -n 120 ./fv3.exe
++ tee err
++ mpiexec -n 120 ./fv3.exe
```

WARNING from PE 63: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 67: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12



WARNING from PE 69: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 75: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 88: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 94: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 6: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 8: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 16: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 17: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 24: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 26: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 28: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 32: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 33: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 34: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 39: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 48: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 52: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 64: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 70: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 71: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 74: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 86: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 87: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 89: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 92: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 95: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 97: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 102: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 109: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 1: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 2: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 3: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 4: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 7: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 10: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 11: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 12: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 13: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 14: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 18: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 19: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 25: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 30: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 31: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 36: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 37: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 38: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 49: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 50: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 51: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 53: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 54: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 55: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 56: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 58: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 59: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 60: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 61: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 62: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 65: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 66: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 68: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 72: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 73: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 76: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 77: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 78: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 80: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 84: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 85: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 101: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 103: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 105: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 9: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 82: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 83: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 104: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 35: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 15: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 106: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 107: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 5: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 0: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 90: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 91: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 20: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 93: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 22: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 23: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even



divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 41: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 42: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 43: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 45: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 46: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 40: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 44: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 47: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 79: atmos\_modeldefine\_blocks\_packed: domain ( 32 17) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 12

WARNING from PE 21: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 27: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even

divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 29: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 96: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 98: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 99: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 100: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 108: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

WARNING from PE 57: atmos\_modeldefine\_blocks\_packed: domain ( 32 16) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 8

WARNING from PE 81: atmos\_modeldefine\_blocks\_packed: domain ( 32 18) is not an even divisor with definition ( 28) - blocks will not be uniform with a remainder of 16

```
'thr'] + [[ false = false ]]  
+ check_results  
+ '[' -o xtrace ]'  
+ set_x='set -x'  
+ set +x  
+ [[ none != \n\o\n\e ]]  
+ [[ false = true ]]  
++ date +%s  
+ echo ' 1686147313, 4'  
+ [[ false = true ]]
```

```
+ elapsed=1143
+ echo 'Elapsed time 1143 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory
```

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
Checking test std_base control_p8_gnu results ....
Moving baseline std_base control_p8_gnu files ....
Moving sfcf000.nc .....OK
Moving sfcf021.nc .....OK
Moving sfcf024.nc .....OK
Moving atmf000.nc .....OK
Moving atmf021.nc .....OK
Moving atmf024.nc .....OK
Moving GFSFLX.GrbF00 .....OK
Moving GFSFLX.GrbF21 .....OK
Moving GFSFLX.GrbF24 .....OK
Moving GFSPRS.GrbF00 .....OK
Moving GFSPRS.GrbF21 .....OK
Moving GFSPRS.GrbF24 .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
```

```
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

```
The total amount of wall time           = 1132.337877
The maximum resident set size (KB)     = 1239336
```

Test std\_base control\_p8\_gnu PASS

baseline dir =

/home/builder/stmp4/builder/FV3\_OPNREQ\_TEST/OPNREQ\_TEST/control\_p8\_std\_base\_gnu

working dir =

/home/builder/stmp2/builder/FV3\_OPNREQ\_TEST/opnReqTest\_7/control\_p8\_gnu\_thr

Checking test thr control\_p8\_gnu results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf021.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf021.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF21 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF21 .....OK
Comparing GFSPRS.GrbF24 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
```

```
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

The total amount of wall time = 1129.901725

The maximum resident set size (KB) = 1240996

Test thr control\_p8\_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 00h:40m:57s. Have a nice day!

opnReqTest finished

[Pipeline] }

[Pipeline] // stage

Post stage

[Pipeline] sh

```
'thr'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 512713dfe230
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:512713dfe230ffa61a0808ed69c424625a03a1ace352314f84f454361f55b3df
```

```
++ docker image ls
```

```

++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 06d1be41bd15
Untagged: noaaepic/input-data:20221101
Untagged: noaaepic/input-
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Deleted: sha256:06d1be41bd15c135d75e718cde29d9bea0882409707a052d96df384beccafd181
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
'mpi'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686147391, 4'
+ [[ false = true ]]
+ elapsed=1149
+ echo 'Elapsed time 1149 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
Checking test mpi control_p8_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf021.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf021.nc .....OK

```

```
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF21 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF21 .....OK
Comparing GFSPRS.GrbF24 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

The total amount of wall time = 1123.255164

The maximum resident set size (KB) = 1244372

Test mpi control\_p8\_gnu PASS

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
Checking test std_base control_p8_gnu results ....
Moving baseline std_base control_p8_gnu files ....
Moving sfcf000.nc .....OK
Moving sfcf021.nc .....OK
Moving sfcf024.nc .....OK
Moving atmf000.nc .....OK
Moving atmf021.nc .....OK
Moving atmf024.nc .....OK
Moving GFSFLX.GrbF00 .....OK
Moving GFSFLX.GrbF21 .....OK
Moving GFSFLX.GrbF24 .....OK
Moving GFSPRS.GrbF00 .....OK
Moving GFSPRS.GrbF21 .....OK
Moving GFSPRS.GrbF24 .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
```



```

Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK

```

```

The total amount of wall time                = 1164.929402
The maximum resident set size (KB)          = 1243828

```

```
Test std_base control_p8_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 00h:41m:38s. Have a nice day!
```

```
opnReqTest finished
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
Post stage
```

```
[Pipeline] sh
```

```
'mpi'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 645459105a69
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:645459105a69a55b37885cbb417b4600358db9269afc4ce5ebc1dc2e0f4a2ccb
```

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 06d1be41bd15
```

```
Untagged: noaaepic/input-data:20221101
```

```
Untagged: noaaepic/input-
```

```
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
```

```
Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181
```

```
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
```

```
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

```
[Pipeline] // node
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

```

[Pipeline] // stage
[Pipeline] }
'rst'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686147417, 4'
+ [[ false = true ]]
+ elapsed=1146
+ echo 'Elapsed time 1146 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_rst
Checking test rst control_p8_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf021.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf021.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF21 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF21 .....OK
Comparing GFSPRS.GrbF24 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK

```

```
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

```
The total amount of wall time           = 1130.500775
The maximum resident set size (KB)     = 1238088
```

Test rst control\_p8\_gnu PASS

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/control_p8_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_std_base
Checking test std_base control_p8_gnu results ....
Moving baseline std_base control_p8_gnu files ....
Moving sfcf000.nc .....OK
Moving sfcf021.nc .....OK
Moving sfcf024.nc .....OK
Moving atmf000.nc .....OK
Moving atmf021.nc .....OK
Moving atmf024.nc .....OK
Moving GFSFLX.GrbF00 .....OK
Moving GFSFLX.GrbF21 .....OK
```

```
Moving GFSFLX.GrbF24 .....OK
Moving GFSPRS.GrbF00 .....OK
Moving GFSPRS.GrbF21 .....OK
Moving GFSPRS.GrbF24 .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

The total amount of wall time = 1190.491370

The maximum resident set size (KB) = 1236832

Test std\_base control\_p8\_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 00h:41m:59s. Have a nice day!

```

    opnReqTest finished
    [Pipeline] }
    [Pipeline] // stage
    Post stage
    [Pipeline] sh
'rst'] ++ docker image ls
    ++ grep -E -m1 ci-test-weather
    ++ awk '{ print $3 }'
    + docker rmi -f b53f4de62bfe
    Untagged: ci-test-weather:latest
    Deleted: sha256:b53f4de62bfe74035f84156079b3fbfd3d2bdc67047b691f4e230d98249d391e
    ++ docker image ls
    ++ grep -E -m1 noaaepic
    ++ awk '{ print $3 }'
    + docker rmi -f 06d1be41bd15
    Untagged: noaaepic/input-data:20221101
    Untagged: noaaepic/input-
    data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
    Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181
    Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
    Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
    [Pipeline] }
    [Pipeline] // withEnv
    [Pipeline] }
    [Pipeline] // node
    [Pipeline] }
    [Pipeline] // withEnv
    [Pipeline] }
    [Pipeline] // stage
    [Pipeline] }

```

```

'rst']                               Memuse(MB) at Memory HiWaterMark=  5.915E+02  6.458E+02
1.073E+01  6.015E+02
+ [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686148106, 5'
+ [[ false = true ]]
+ elapsed=3207
+ echo 'Elapsed time 3207 seconds. Test cpld_control_nowave_noaero_p8_gnu'

```

```
+ '[' 0 -eq 0 ']'
Running test for rst
  THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=31400
+ SECONDS=0
+ trap '[ "$?" -eq 0 ] || write_fail_test' EXIT
+ trap 'echo "run_test.sh interrupted PID=$$"; cleanup' INT
+ trap 'echo "run_test.sh terminated PID=$$"; cleanup' TERM
+ [[ 5 != 5 ]]
+ export PATHRT=/home/builder/ufs-weather-model/tests
+ PATHRT=/home/builder/ufs-weather-model/tests
+ export RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ RUNDIR_ROOT=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export TEST_NAME=cpld_control_nowave_noaero_p8
+ TEST_NAME=cpld_control_nowave_noaero_p8
+ export TEST_NR=rst
+ TEST_NR=rst
+ export COMPILE_NR=std
+ COMPILE_NR=std
+ echo 'PATHRT: /home/builder/ufs-weather-model/tests'
+ echo 'RUNDIR_ROOT: /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7'
+ echo 'TEST_NAME: cpld_control_nowave_noaero_p8'
+ echo 'TEST_NR: rst'
+ echo 'COMPILE_NR: std'
+ cd /home/builder/ufs-weather-model/tests
+ unset MODEL_CONFIGURE
+ unset NEMS_CONFIGURE
+ [[ -e /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_rst.env ]]
+ source /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/run_test_rst.env
++ export JOB_NR=002
++ JOB_NR=002
++ export MACHINE_ID=linux
++ MACHINE_ID=linux
++ export RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ RTPWD=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ INPUTDATA_ROOT=/home/builder/data/NEMSFV3GFS/input-data-20221101
++ export INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ INPUTDATA_ROOT_WW3=/home/builder/data/NEMSFV3GFS/input-data-20221101/WW3_input_data_20220624/
++ export INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BM_IC-20220207
++ export PATHRT=/home/builder/ufs-weather-model/tests
```

```
++ PATHRT=/home/builder/ufs-weather-model/tests
++ export PATHTR=/home/builder/ufs-weather-model
++ PATHTR=/home/builder/ufs-weather-model
++ export NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ NEW_BASELINE=/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST
++ export CREATE_BASELINE=false
++ CREATE_BASELINE=false
++ export RT_SUFFIX=_rst
++ RT_SUFFIX=_rst
++ export BL_SUFFIX=_std_base
++ BL_SUFFIX=_std_base
++ export SCHEDULER=none
++ SCHEDULER=none
++ export ACCNR=nems
++ ACCNR=nems
++ export QUEUE=
++ QUEUE=
++ export PARTITION=
++ PARTITION=
++ export ROCOTO=false
++ ROCOTO=false
++ export ECFLOW=false
++ ECFLOW=false
++ export REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-
model/tests/logs/OpnReqTests_cp1d_control_nowave_noaero_p8_linux.log
++ export LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ LOG_DIR=/home/builder/ufs-weather-model/tests/logs/log_opnReqTest_linux
++ export skip_check_results=false
++ skip_check_results=false
++ export delete_rundir=false
++ delete_rundir=false
++ export RT_COMPILER=gnu
++ RT_COMPILER=gnu
+ source default_vars.sh
++ THRD=1
++ INPES_atmaero=4
++ JNPES_atmaero=8
++ WPG_atmaero=6
++ THRD_cp1_atmw=1
++ INPES_cp1_atmw=3
++ JNPES_cp1_atmw=8
++ WPG_cp1_atmw=6
```

```
++ WAV_tasks_cpl_atmw=30
++ WAV_thrds_cpl_atmw=1
++ THRD_cpl_c48=1
++ INPES_cpl_c48=1
++ JNPES_cpl_c48=1
++ WPG_cpl_c48=6
++ OCN_tasks_cpl_c48=4
++ ICE_tasks_cpl_c48=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ OCN_thrds_cpl_thrd=1
++ ICE_tasks_cpl_thrd=10
++ ICE_thrds_cpl_thrd=1
++ WAV_tasks_cpl_thrd=12
++ WAV_thrds_cpl_thrd=2
++ THRD_cpl_dcmp=1
++ INPES_cpl_dcmp=4
++ JNPES_cpl_dcmp=6
++ WPG_cpl_dcmp=6
++ OCN_tasks_cpl_dcmp=20
++ ICE_tasks_cpl_dcmp=10
++ WAV_tasks_cpl_dcmp=20
++ THRD_cpl_mpi=1
++ INPES_cpl_mpi=4
++ JNPES_cpl_mpi=8
++ WPG_cpl_mpi=6
++ OCN_tasks_cpl_mpi=34
++ ICE_tasks_cpl_mpi=20
++ WAV_tasks_cpl_mpi=28
++ THRD_cpl_bmrk=2
++ INPES_cpl_bmrk=8
++ JNPES_cpl_bmrk=8
++ WPG_cpl_bmrk=48
++ OCN_tasks_cpl_bmrk=120
```



```
++ OCN_thrds_cpl_bmrk=1
++ ICE_tasks_cpl_bmrk=48
++ ICE_thrds_cpl_bmrk=1
++ WAV_tasks_cpl_bmrk=80
++ WAV_thrds_cpl_bmrk=2
++ THRD_cpl_c192=2
++ INPES_cpl_c192=6
++ JNPES_cpl_c192=8
++ WPG_cpl_c192=12
++ OCN_tasks_cpl_c192=60
++ ICE_tasks_cpl_c192=24
++ WAV_tasks_cpl_c192=80
++ ATM_compute_tasks_cdeps_100=12
++ OCN_tasks_cdeps_100=16
++ ICE_tasks_cdeps_100=12
++ ATM_compute_tasks_cdeps_025=40
++ OCN_tasks_cdeps_025=120
++ ICE_tasks_cdeps_025=48
++ INPES_aqm=33
++ JNPES_aqm=8
++ THRD_cpl_unstr=1
++ INPES_cpl_unstr=3
++ JNPES_cpl_unstr=8
++ WPG_cpl_unstr=6
++ OCN_tasks_cpl_unstr=20
++ ICE_tasks_cpl_unstr=10
++ WAV_tasks_cpl_unstr=60
++ THRD_cpl_unstr_mpi=1
++ INPES_cpl_unstr_mpi=4
++ JNPES_cpl_unstr_mpi=8
++ WPG_cpl_unstr_mpi=6
++ OCN_tasks_cpl_unstr_mpi=34
++ ICE_tasks_cpl_unstr_mpi=20
++ WAV_tasks_cpl_unstr_mpi=50
++ aqm_omp_num_threads=1
++ atm_omp_num_threads=1
++ chm_omp_num_threads=1
++ ice_omp_num_threads=1
++ lnd_omp_num_threads=1
++ med_omp_num_threads=1
++ ocn_omp_num_threads=1
++ wav_omp_num_threads=1
++ [[ linux = wcross2 ]]
++ [[ linux = acorn ]]
```

```

++ [[ linux = orion ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thrd=3
++ JNPES_thrd=4
++ THRD_cpl_dflt=1
++ INPES_cpl_dflt=3
++ JNPES_cpl_dflt=8
++ WPG_cpl_dflt=6
++ OCN_tasks_cpl_dflt=20
++ ICE_tasks_cpl_dflt=10
++ WAV_tasks_cpl_dflt=20
++ THRD_cpl_thrd=2
++ INPES_cpl_thrd=3
++ JNPES_cpl_thrd=4
++ WPG_cpl_thrd=6
++ OCN_tasks_cpl_thrd=20
++ ICE_tasks_cpl_thrd=10
++ WAV_tasks_cpl_thrd=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
+ source tests/cpld_control_nowave_noaero_p8
++ export 'TEST_DESCR=Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ TEST_DESCR='Fully coupled FV3-CCPP-MOM6-CICE-CMEPS system - C96MX100'
++ export CNTL_DIR=cpld_control_c96_noaero_p8
++ CNTL_DIR=cpld_control_c96_noaero_p8
++ export 'LIST_FILES=sfcf021.tile1.nc                sfcf021.tile2.nc
sfcf021.tile3.nc                sfcf021.tile4.nc                sfcf021.tile5.nc
sfcf021.tile6.nc                atmf021.tile1.nc                atmf021.tile2.nc
atmf021.tile3.nc                atmf021.tile4.nc                atmf021.tile5.nc
atmf021.tile6.nc                sfcf024.tile1.nc                sfcf024.tile2.nc
sfcf024.tile3.nc                sfcf024.tile4.nc                sfcf024.tile5.nc
sfcf024.tile6.nc                atmf024.tile1.nc                atmf024.tile2.nc
atmf024.tile3.nc                atmf024.tile4.nc                atmf024.tile5.nc
atmf024.tile6.nc                RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc'

```

```

RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/ufscpld.cpl.r.2021-03-23-21600.nc '
++ LIST_FILES='sfcf021.tile1.nc
sfcf021.tile2.nc
sfcf021.tile3.nc
sfcf021.tile4.nc
sfcf021.tile5.nc
sfcf021.tile6.nc
atmf021.tile1.nc
atmf021.tile2.nc
atmf021.tile3.nc
atmf021.tile4.nc
atmf021.tile5.nc
atmf021.tile6.nc
sfcf024.tile1.nc
sfcf024.tile2.nc
sfcf024.tile3.nc
sfcf024.tile4.nc
sfcf024.tile5.nc
sfcf024.tile6.nc
atmf024.tile1.nc
atmf024.tile2.nc
atmf024.tile3.nc
atmf024.tile4.nc
atmf024.tile5.nc
atmf024.tile6.nc
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_core.res.tile6.nc

```

```
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/20210323.060000.MOM.res.nc
RESTART/ufc.cpld.cpl.r.2021-03-23-21600.nc '
++ export_fv3
++ export NEMS_CONFIGURE=nems.configure.atm.IN
++ NEMS_CONFIGURE=nems.configure.atm.IN
++ export MODEL_CONFIGURE=model_configure.IN
++ MODEL_CONFIGURE=model_configure.IN
++ export atm_model=fv3
++ atm_model=fv3
++ export FV3=true
++ FV3=true
++ export S2S=false
++ S2S=false
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
RESTART/iced.2021-03-23-21600.nc
```

```
++ DOCN_CDEPS=false
++ export POSTAPP=global
++ POSTAPP=global
++ export USE_MERRA2=.false.
++ USE_MERRA2=.false.
++ export NTILES=6
++ NTILES=6
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export RESTART_INTERVAL=0
++ RESTART_INTERVAL=0
++ export QUILTING=.true.
++ QUILTING=.true.
++ export QUILTING_RESTART=.false.
++ QUILTING_RESTART=.false.
++ export WRITE_GROUP=1
++ WRITE_GROUP=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ export ITASKS=1
++ ITASKS=1
++ export OUTPUT_HISTORY=.true.
++ OUTPUT_HISTORY=.true.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ FILENAME_BASE='\''atm'\'' '\''sfc'\''
++ export 'OUTPUT_GRID='\''cubed_sphere_grid'\''
++ OUTPUT_GRID='\''cubed_sphere_grid'\''
++ export 'OUTPUT_FILE='\''netcdf'\''
++ OUTPUT_FILE='\''netcdf'\''
++ export IDEFLATE=0
++ IDEFLATE=0
++ export NBITS=0
++ NBITS=0
++ export ICHUNK2D=0
++ ICHUNK2D=0
++ export JCHUNK2D=0
++ JCHUNK2D=0
++ export ICHUNK3D=0
```



```
++ DAMP_LW_FLUXADJ=.false.  
++ export RRTMGP_LW_PHYS_BLKSZ=2  
++ RRTMGP_LW_PHYS_BLKSZ=2  
++ export ICLLOUD=0  
++ ICLLOUD=0  
++ export IAER=111  
++ IAER=111  
++ export ICLIQ_SW=1  
++ ICLIQ_SW=1  
++ export IOVR=1  
++ IOVR=1  
++ export LFNC_K=-999  
++ LFNC_K=-999  
++ export LFNC_P0=-999  
++ LFNC_P0=-999  
++ export IMP_PHYSICS=11  
++ IMP_PHYSICS=11  
++ export NWAT=6  
++ NWAT=6  
++ export DNATS=1  
++ DNATS=1  
++ export DO_SAT_ADJ=.true.  
++ DO_SAT_ADJ=.true.  
++ export LHEATSTRG=.true.  
++ LHEATSTRG=.true.  
++ export LSEASPRAY=.false.  
++ LSEASPRAY=.false.  
++ export LGFDLMPRAD=.false.  
++ LGFDLMPRAD=.false.  
++ export EFFR_IN=.false.  
++ EFFR_IN=.false.  
++ export LRADAR=.true.  
++ LRADAR=.true.  
++ export LTAEROSOL=.true.  
++ LTAEROSOL=.true.  
++ export EXT_DIAG_THOMPSON=.false.  
++ EXT_DIAG_THOMPSON=.false.  
++ export SEDI_SEMI=.true.  
++ SEDI_SEMI=.true.  
++ export DECFL=10  
++ DECFL=10  
++ export NSSL_CCCN=0.6e9  
++ NSSL_CCCN=0.6e9  
++ export NSSL_ALPHAH=0.0
```

```
++ NSSL_ALPHAH=0.0
++ export NSSL_ALPHAHL=1.0
++ NSSL_ALPHAHL=1.0
++ export NSSL_HAIL_ON=.false.
++ NSSL_HAIL_ON=.false.
++ export NSSL_CCN_ON=.true.
++ NSSL_CCN_ON=.true.
++ export NSSL_INVERTCCN=.true.
++ NSSL_INVERTCCN=.true.
++ export RRFS_SMOKE=.false.
++ RRFS_SMOKE=.false.
++ export SMOKE_FORECAST=0
++ SMOKE_FORECAST=0
++ export RRFS_RESTART=NO
++ RRFS_RESTART=NO
++ export SEAS_OPT=2
++ SEAS_OPT=2
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_UGWP=.false.
++ DO_UGWP=.false.
++ export DO_TOFD=.false.
++ DO_TOFD=.false.
++ export GWD_OPT=1
++ GWD_OPT=1
++ export DO_UGWP_V0=.false.
++ DO_UGWP_V0=.false.
++ export DO_UGWP_V0_OROG_ONLY=.false.
++ DO_UGWP_V0_OROG_ONLY=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export DO_GSL_DRAG_SS=.false.
++ DO_GSL_DRAG_SS=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export CDMBWD_c48=0.071,2.1,1.0,1.0
++ CDMBWD_c48=0.071,2.1,1.0,1.0
++ export CDMBWD_c96=0.14,1.8,1.0,1.0
++ CDMBWD_c96=0.14,1.8,1.0,1.0
++ export CDMBWD_c192=0.23,1.5,1.0,1.0
```



```
++ CDMBWD_c192=0.23,1.5,1.0,1.0
++ export CDMBWD_c384=1.1,0.72,1.0,1.0
++ CDMBWD_c384=1.1,0.72,1.0,1.0
++ export CDMBWD_c768=4.0,0.15,1.0,1.0
++ CDMBWD_c768=4.0,0.15,1.0,1.0
++ export DT_INNER_c96=360
++ DT_INNER_c96=360
++ export DT_INNER_c192=300
++ DT_INNER_c192=300
++ export DT_INNER_c384=150
++ DT_INNER_c384=150
++ export DT_INNER_c768=75
++ DT_INNER_c768=75
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DT_INNER=360
++ DT_INNER=360
++ export SATMEDMF=.false.
++ SATMEDMF=.false.
++ export ISATMEDMF=0
++ ISATMEDMF=0
++ export HYBEDMF=.true.
++ HYBEDMF=.true.
++ export SHINHONG=.false.
++ SHINHONG=.false.
++ export DO_YSU=.false.
++ DO_YSU=.false.
++ export DO_MYNNEDMF=.false.
++ DO_MYNNEDMF=.false.
++ export DO_MYJPBL=.false.
++ DO_MYJPBL=.false.
++ export HURR_PBL=.false.
++ HURR_PBL=.false.
++ export MONINQ_FAC=1.0
++ MONINQ_FAC=1.0
++ export SFCLAY_COMPUTE_FLUX=.false.
++ SFCLAY_COMPUTE_FLUX=.false.
++ export DO_DEEP=.true.
++ DO_DEEP=.true.
++ export SHAL_CNV=.true.
++ SHAL_CNV=.true.
++ export IMFSHALCNV=2
++ IMFSHALCNV=2
++ export HWRF_SAMFSHAL=.false.
```

```
++ HWRF_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRF_SAMFDEEP=.false.
++ HWRF_SAMFDEEP=.false.
++ export RAS=.false.
++ RAS=.false.
++ export RANDOM_CLDS=.false.
++ RANDOM_CLDS=.false.
++ export CNVCLD=.true.
++ CNVCLD=.true.
++ export PROGSIGMA=.false.
++ PROGSIGMA=.false.
++ export
'FSCAV_AERO="*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++
FSCAV_AERO='*:0.3","so2:0.0","msa:0.0","dms:0.0","nh3:0.4","nh4:0.6","bc1:0.6","bc2:0.6
","oc1:0.4","oc2:0.4","dust1:0.6","dust2:0.6","dust3:0.6","dust4:0.6","dust5:0.6","seas1
:0.5","seas2:0.5","seas3:0.5","seas4:0.5","seas5:0.5"'
++ export DO_MYJSFC=.false.
++ DO_MYJSFC=.false.
++ export DO_MYNSFCLAY=.false.
++ DO_MYNSFCLAY=.false.
++ export LSM=1
++ LSM=1
++ export LSOIL_LSM=4
++ LSOIL_LSM=4
++ export LANDICE=.true.
++ LANDICE=.true.
++ export KICE=2
++ KICE=2
++ export IALB=1
++ IALB=1
++ export IEMS=1
++ IEMS=1
++ export OZ_PHYS_OLD=.true.
++ OZ_PHYS_OLD=.true.
++ export OZ_PHYS_NEW=.false.
++ OZ_PHYS_NEW=.false.
++ export H2O_PHYS=.false.
++ H2O_PHYS=.false.
++ export LKM=0
```

```
++ LKM=0
++ export IOPT_LAKE=2
++ IOPT_LAKE=2
++ export LAKEFRAC_THRESHOLD=0.0
++ LAKEFRAC_THRESHOLD=0.0
++ export LAKEDEPTH_THRESHOLD=1.0
++ LAKEDEPTH_THRESHOLD=1.0
++ export FRAC_ICE=.false.
++ FRAC_ICE=.false.
++ export CPL=.false.
++ CPL=.false.
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export CPLFLX=.false.
++ CPLFLX=.false.
++ export CPLICE=.false.
++ CPLICE=.false.
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export DAYS=1
++ DAYS=1
++ export NPX=97
++ NPX=97
++ export NPY=97
++ NPY=97
++ export NPZ=64
++ NPZ=64
++ export NPZP=65
++ NPZP=65
++ export NSTF_NAME=2,1,1,0,5
++ NSTF_NAME=2,1,1,0,5
++ export 'OUTPUT_FH=12 -1'
++ OUTPUT_FH='12 -1'
++ export NFHOUT=12
++ NFHOUT=12
++ export NFHMAX_HF=12
++ NFHMAX_HF=12
++ export NFHOUT_HF=6
```

```
++ NFHOUT_HF=6
++ export IAU_OFFSET=0
++ IAU_OFFSET=0
++ export FHZERO=6
++ FHZERO=6
++ export 'FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ FNALBC='\''global_snowfree_albedo.bosu.t126.384.190.rg.grb'\''
++ export 'FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ FNVETC='\''global_vegtype.igbp.t126.384.190.rg.grb'\''
++ export 'FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ FNSOTC='\''global_soiltype.statsgo.t126.384.190.rg.grb'\''
++ export 'FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
++ FNSMCC='\''global_soilmgldas.t126.384.190.rg.grb'\''
++ export 'FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC_control='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH_control='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ FNABSC='\''global_mxsnoalb.uariz.t126.384.190.rg.grb'\''
++ export ATMRES=C96
++ ATMRES=C96
++ export TILEDFIX=.false.
++ TILEDFIX=.false.
++ export ENS_NUM=1
++ ENS_NUM=1
++ export SYEAR=2016
++ SYEAR=2016
++ export SMONTH=10
++ SMONTH=10
++ export SDAY=03
++ SDAY=03
++ export SHOUR=00
++ SHOUR=00
+++ expr 00 '*' 3600
++ export SECS=0
++ SECS=0
++ export FHMAX=24
++ FHMAX=24
++ export DT_ATMOS=1800
++ DT_ATMOS=1800
++ export FHCYC=24
++ FHCYC=24
++ export FHROT=0
++ FHROT=0
```

```
++ export LDIAG3D=.false.
++ LDIAG3D=.false.
++ export QDIAG3D=.false.
++ QDIAG3D=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export MAX_OUTPUT_FIELDS=310
++ MAX_OUTPUT_FIELDS=310
++ export STOCHINI=.false.
++ STOCHINI=.false.
++ export DO_SPPT=.false.
++ DO_SPPT=.false.
++ export DO_SHUM=.false.
++ DO_SHUM=.false.
++ export DO_SKEB=.false.
++ DO_SKEB=.false.
++ export LNDRP_TYPE=0
++ LNDRP_TYPE=0
++ export N_VAR_LNDRP=0
++ N_VAR_LNDRP=0
++ export SKEB=-999.
++ SKEB=-999.
++ export SPPT=-999.
++ SPPT=-999.
++ export SHUM=-999.
++ SHUM=-999.
++ export 'LNDRP_VAR_LIST='\''XXX'\''
++ LNDRP_VAR_LIST='\''XXX'\''
++ export LNDRP_PRT_LIST=-999
++ LNDRP_PRT_LIST=-999
++ export LNDRP_MODEL_TYPE=0
++ LNDRP_MODEL_TYPE=0
++ export 'IAU_INC_FILES='\'''\''
++ IAU_INC_FILES='\'''\''
++ export FH_DFI_RADAR=-2e10
++ FH_DFI_RADAR=-2e10
++ export DO_CA=.false.
++ DO_CA=.false.
++ export CA_SGS=.false.
++ CA_SGS=.false.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export IAU_DRYMASSFIXER=.false.
++ IAU_DRYMASSFIXER=.false.
```

```
++ export WW3RSTDTHR=12
++ WW3RSTDTHR=12
+++ printf %02d 43200
++ export DT_2_RST=43200
++ DT_2_RST=43200
++ export WW3OUTDTHR=1
++ WW3OUTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
++ DTPNT=3600
++ export DTRST=0
++ DTRST=0
++ export RSTTYPE=T
++ RSTTYPE=T
++ export GOFILETYPE=1
++ GOFILETYPE=1
++ export POFILETYPE=1
++ POFILETYPE=1
++ export 'OUTPARS_WAV=WND HS FP DP PHS PTP PDIR'
++ OUTPARS_WAV='WND HS FP DP PHS PTP PDIR'
++ export 'CPLILINE=$'
++ CPLILINE='$'
++ export 'ICELINE=$'
++ ICELINE='$'
++ export 'WINDLINE=$'
++ WINDLINE='$'
++ export 'CURRLINE=$'
++ CURRLINE='$'
++ export NFGRIDS=0
++ NFGRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native''
''no'' ''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ WW3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no''
''no'' ''no'' ''no'' ''no'' ''no'' 1 1 0.00 1.00 F'
++ export FUNIPNT=T
++ FUNIPNT=T
++ export IOSRV=1
++ IOSRV=1
++ export FPNTPROC=T
```

```
++ FPNTPROC=T
++ export FGRDPROC=T
++ FGRDPROC=T
++ export UNIPOINTS=points
++ UNIPOINTS=points
++ export 'FLAGMASKCOMP= F'
++ FLAGMASKCOMP=' F'
++ export 'FLAGMASKOUT= F'
++ FLAGMASKOUT=' F'
+++ printf %02d 0
++ export 'RUN_BEG=20161003 000000'
++ RUN_BEG='20161003 000000'
+++ printf %02d 0
++ export 'RUN_END=21001003 000000'
++ RUN_END='21001003 000000'
++ export 'OUT_BEG=20161003 000000'
++ OUT_BEG='20161003 000000'
++ export 'OUT_END=21001003 000000'
++ OUT_END='21001003 000000'
++ export 'RST_BEG=20161003 000000'
++ RST_BEG='20161003 000000'
++ export 'RST_2_BEG=20161003 000000'
++ RST_2_BEG='20161003 000000'
++ export 'RST_END=21001003 000000'
++ RST_END='21001003 000000'
++ export 'RST_2_END=21001003 000000'
++ RST_2_END='21001003 000000'
++ export WAV_CUR=F
++ WAV_CUR=F
++ export WAV_ICE=F
++ WAV_ICE=F
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export MULTIGRID=true
++ MULTIGRID=true
++ export MODDEF_WAV=mod_def.glo_1deg
++ MODDEF_WAV=mod_def.glo_1deg
++ export MESH_WAV=mesh.glo_1deg.nc
++ MESH_WAV=mesh.glo_1deg.nc
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export WRITE_RESTART_WITH_BCS=.false.
```

```
++ WRITE_RESTART_WITH_BCS=.false.
++ export PRINT_DIFF_PGR=.false.
++ PRINT_DIFF_PGR=.false.
++ export coupling_interval_fast_sec=0
++ coupling_interval_fast_sec=0
++ export_cpl
++ export FV3=true
++ FV3=true
++ export S2S=true
++ S2S=true
++ export HAFS=false
++ HAFS=false
++ export AQM=false
++ AQM=false
++ export DATM_CDEPS=false
++ DATM_CDEPS=false
++ export DOCN_CDEPS=false
++ DOCN_CDEPS=false
++ export FV3BMIC=p8c
++ FV3BMIC=p8c
++ export SYEAR=2021
++ SYEAR=2021
++ export SMONTH=03
++ SMONTH=03
++ export SDAY=22
++ SDAY=22
++ export SHOUR=06
++ SHOUR=06
+++ expr 06 '*' 3600
++ export SECS=21600
++ SECS=21600
++ export BMIC=.false.
++ BMIC=.false.
++ export DAYS=1
++ DAYS=1
++ export FHMAX=24
++ FHMAX=24
++ export FDIAG=6
++ FDIAG=6
++ export FHZERO=6
++ FHZERO=6
++ export WRITE_NSFLIP=.true.
++ WRITE_NSFLIP=.true.
++ export ATMRES=C96
```



```
++ ATMRES=C96
++ export OCNRES=100
++ OCNRES=100
++ export ICERES=1.00
++ ICERES=1.00
++ export NX_GLB=360
++ NX_GLB=360
++ export NY_GLB=320
++ NY_GLB=320
++ export NPZ=127
++ NPZ=127
++ export NPZP=128
++ NPZP=128
++ export DOMAINS_STACK_SIZE=8000000
++ DOMAINS_STACK_SIZE=8000000
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export THRD=1
++ THRD=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ WAV_tasks=20
++ export DT_ATMOS=720
++ DT_ATMOS=720
++ export DT_INNER=720
++ DT_INNER=720
++ export DT_CICE=720
++ DT_CICE=720
++ export DT_DYNAM_MOM6=1800
++ DT_DYNAM_MOM6=1800
++ export DT_THERM_MOM6=3600
++ DT_THERM_MOM6=3600
++ export NEMS_CONFIGURE=nems.configure.cpld.IN
++ NEMS_CONFIGURE=nems.configure.cpld.IN
++ export med_model=cmepps
++ med_model=cmepps
++ export atm_model=fv3
++ atm_model=fv3
++ export chm_model=gocart
++ chm_model=gocart
```

```
++ export ocn_model=mom6
++ ocn_model=mom6
++ export ice_model=cice6
++ ice_model=cice6
++ export wav_model=ww3
++ wav_model=ww3
++ export coupling_interval_slow_sec=3600
++ coupling_interval_slow_sec=3600
++ export coupling_interval_fast_sec=720
++ coupling_interval_fast_sec=720
++ export RESTART_N=24
++ RESTART_N=24
++ export CPLMODE=nems_frac
++ CPLMODE=nems_frac
++ export cap_dbug_flag=0
++ cap_dbug_flag=0
++ export use_coldstart=false
++ use_coldstart=false
++ export use_mommesh=true
++ use_mommesh=true
++ export RUNTYPE=startup
++ RUNTYPE=startup
++ export CICERUNTYPE=initial
++ CICERUNTYPE=initial
++ export eps_imesh=1.0e-1
++ eps_imesh=1.0e-1
+++ expr 97 - 1
++ export ATMTILESIZE=96
++ ATMTILESIZE=96
++ export MULTIGRID=false
++ MULTIGRID=false
++ export FRAC_GRID=.true.
++ FRAC_GRID=.true.
++ export CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ CCPP_SUITE=FV3_GFS_v17_coupled_p8
++ export INPUT_NML=cpld_control.nml.IN
++ INPUT_NML=cpld_control.nml.IN
++ export FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ FIELD_TABLE=field_table_thompson_noaero_tke_GOCART
++ export DIAG_TABLE=diag_table_p8_template
++ DIAG_TABLE=diag_table_p8_template
++ export DIAG_TABLE_ADDITIONAL=
++ DIAG_TABLE_ADDITIONAL=
++ export FHROT=0
```

```
++ FHROT=0
++ export NSOUT=-1
++ NSOUT=-1
++ export 'OUTPUT_FH=6 -1'
++ OUTPUT_FH='6 -1'
++ export IALB=2
++ IALB=2
++ export IEMS=2
++ IEMS=2
++ export LSM=2
++ LSM=2
++ export IOPT_DVEG=4
++ IOPT_DVEG=4
++ export IOPT_CRS=2
++ IOPT_CRS=2
++ export IOPT_RAD=3
++ IOPT_RAD=3
++ export IOPT_ALB=1
++ IOPT_ALB=1
++ export IOPT_STC=3
++ IOPT_STC=3
++ export IOPT_SFC=3
++ IOPT_SFC=3
++ export IOPT_TRS=2
++ IOPT_TRS=2
++ export D2_BG_K1=0.20
++ D2_BG_K1=0.20
++ export D2_BG_K2=0.04
++ D2_BG_K2=0.04
++ export PSM_BC=1
++ PSM_BC=1
++ export DDDMP=0.1
++ DDDMP=0.1
++ export DZ_MIN=6
++ DZ_MIN=6
++ export USE_MERRA2=.true.
++ USE_MERRA2=.true.
++ export IAER=1011
++ IAER=1011
++ export NSTF_NAME=2,0,0,0,0
++ NSTF_NAME=2,0,0,0,0
++ export LHEATSTRG=.false.
++ LHEATSTRG=.false.
++ export LSEASPRAY=.true.
```

```
++ LSEASPRAY=.true.
++ export GWD_OPT=2
++ GWD_OPT=2
++ export KNOB_UGWP_NSLOPE=1
++ KNOB_UGWP_NSLOPE=1
++ export DO_GSL_DRAG_LS_BL=.true.
++ DO_GSL_DRAG_LS_BL=.true.
++ export DO_GSL_DRAG_SS=.true.
++ DO_GSL_DRAG_SS=.true.
++ export DO_UGWP_V1_OROG_ONLY=.false.
++ DO_UGWP_V1_OROG_ONLY=.false.
++ export DO_UGWP_V0_NST_ONLY=.false.
++ DO_UGWP_V0_NST_ONLY=.false.
++ export LDIAG_UGWP=.false.
++ LDIAG_UGWP=.false.
++ export DO_GSL_DRAG_TOFD=.false.
++ DO_GSL_DRAG_TOFD=.false.
++ export CDMBWD=0.14,1.8,1.0,1.0
++ CDMBWD=0.14,1.8,1.0,1.0
++ export DO_RRTMGP=.false.
++ DO_RRTMGP=.false.
++ export DOGP_CLDOPTICS_LUT=.true.
++ DOGP_CLDOPTICS_LUT=.true.
++ export DOGP_LWSCAT=.true.
++ DOGP_LWSCAT=.true.
++ export DOGP_SGS_CNV=.true.
++ DOGP_SGS_CNV=.true.
++ export DO_UGWP_V0=.true.
++ DO_UGWP_V0=.true.
++ export DO_UGWP_V1=.false.
++ DO_UGWP_V1=.false.
++ export DO_GSL_DRAG_LS_BL=.false.
++ DO_GSL_DRAG_LS_BL=.false.
++ export KNOB_UGWP_VERSION=0
++ KNOB_UGWP_VERSION=0
++ export DO_CA=.true.
++ DO_CA=.true.
++ export CA_SGS=.true.
++ CA_SGS=.true.
++ export CA_GLOBAL=.false.
++ CA_GLOBAL=.false.
++ export NCA=1
++ NCA=1
++ export NCELLS=5
```

```
++ NCELLS=5
++ export NLIVES=12
++ NLIVES=12
++ export NTHRESH=18
++ NTHRESH=18
++ export NSEED=1
++ NSEED=1
++ export NFRACSEED=0.5
++ NFRACSEED=0.5
++ export CA_TRIGGER=.true.
++ CA_TRIGGER=.true.
++ export NSPINUP=1
++ NSPINUP=1
++ export ISEED_CA=12345
++ ISEED_CA=12345
++ export 'FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ FNALBC='\''C96.snowfree_albedo.tileX.nc'\''
++ export 'FNALBC2='\''C96.facsf.tileX.nc'\''
++ FNALBC2='\''C96.facsf.tileX.nc'\''
++ export 'FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ FNTG3C='\''C96.substrate_temperature.tileX.nc'\''
++ export 'FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVEGC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ FNVETC='\''C96.vegetation_type.tileX.nc'\''
++ export 'FNSOTC='\''C96.soil_type.tileX.nc'\''
++ FNSOTC='\''C96.soil_type.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmgldas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVNC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNMVXC='\''C96.vegetation_greenness.tileX.nc'\''
++ export 'FNSLPC='\''C96.slope_type.tileX.nc'\''
++ FNSLPC='\''C96.slope_type.tileX.nc'\''
++ export 'FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ FNABSC='\''C96.maximum_snow_albedo.tileX.nc'\''
++ export LANDICE=.false.
++ LANDICE=.false.
++ export FSICL=0
++ FSICL=0
++ export FSICS=0
```

```
++ FSICS=0
++ export USE_CICE_ALB=.true.
++ USE_CICE_ALB=.true.
++ export MIN_SEAICE=1.0e-6
++ MIN_SEAICE=1.0e-6
++ export DNATS=2
++ DNATS=2
++ export IMP_PHYSICS=8
++ IMP_PHYSICS=8
++ export LGFDLMPRAD=.false.
++ LGFDLMPRAD=.false.
++ export DO_SAT_ADJ=.false.
++ DO_SAT_ADJ=.false.
++ export SATMEDMF=.true.
++ SATMEDMF=.true.
++ export KTHERM=2
++ KTHERM=2
++ export TFREEZE_OPTION=mushy
++ TFREEZE_OPTION=mushy
++ export CPLFLX=.true.
++ CPLFLX=.true.
++ export CPLICE=.true.
++ CPLICE=.true.
++ export CPL=.true.
++ CPL=.true.
++ export CPLWAV=.true.
++ CPLWAV=.true.
++ export CPLWAV2ATM=.true.
++ CPLWAV2ATM=.true.
++ export USE_MED_FLUX=.false.
++ USE_MED_FLUX=.false.
++ export CPLCHM=.true.
++ CPLCHM=.true.
++ export CPLLND=.false.
++ CPLLND=.false.
++ export WARM_START=.false.
++ WARM_START=.false.
++ export MAKE_NH=.true.
++ MAKE_NH=.true.
++ export NA_INIT=1
++ NA_INIT=1
++ export EXTERNAL_IC=.true.
++ EXTERNAL_IC=.true.
++ export NGGPS_IC=.true.
```

```
++ NCGPS_IC=.true.
++ export MOUNTAIN=.false.
++ MOUNTAIN=.false.
++ export MOM_INPUT=MOM_input_template_100
++ MOM_INPUT=MOM_input_template_100
++ export MOM6_RESTART_SETTING=n
++ MOM6_RESTART_SETTING=n
++ export MOM6_RIVER_RUNOFF=False
++ MOM6_RIVER_RUNOFF=False
++ export FRUNOFF=
++ FRUNOFF=
++ export CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ CHLCLIM=seawifs_1998-2006_smoothed_2X.nc
++ export MOM6_USE_LI2016=True
++ MOM6_USE_LI2016=True
++ export MOM6_THERMO_SPAN=False
++ MOM6_THERMO_SPAN=False
++ export MOM6_USE_WAVES=True
++ MOM6_USE_WAVES=True
++ export MOM6_ALLOW_LANDMASK_CHANGES=False
++ MOM6_ALLOW_LANDMASK_CHANGES=False
++ export MOM_IAU=False
++ MOM_IAU=False
++ export MOM_IAU_HRS=6
++ MOM_IAU_HRS=6
++ export DO_OCN_SPPT=False
++ DO_OCN_SPPT=False
++ export PERT_EPBL=False
++ PERT_EPBL=False
++ export OCN_SPPT=-999.
++ OCN_SPPT=-999.
++ export EPBL=-999.
++ EPBL=-999.
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
++ export NPROC_ICE=10
++ NPROC_ICE=10
++ export CICE_DECOMP=slenderX2
++ CICE_DECOMP=slenderX2
+++ expr 10 / 2
++ export np2=5
++ np2=5
+++ expr 360 / 5
++ export BLCKX=72
```

```
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export MESHOCN_ICE=mesh.mx100.nc
++ MESHOCN_ICE=mesh.mx100.nc
++ export WAVDOMAIN=mx100
++ WAVDOMAIN=mx100
++ export MODDEF_WAV=mod_def.mx100
++ MODDEF_WAV=mod_def.mx100
++ export MESH_WAV=mesh.mx100.nc
++ MESH_WAV=mesh.mx100.nc
++ export CICEGRID=grid_cice_NEMS_mx100.nc
++ CICEGRID=grid_cice_NEMS_mx100.nc
++ export CICEMASK=kmtu_cice_NEMS_mx100.nc
++ CICEMASK=kmtu_cice_NEMS_mx100.nc
++ export RUNID=unknown
++ RUNID=unknown
++ export DUMPFREQ=d
++ DUMPFREQ=d
++ export DUMPFREQ_N=1000
++ DUMPFREQ_N=1000
++ export USE_RESTART_TIME=.false.
++ USE_RESTART_TIME=.false.
++ export RESTART_EXT=.false.
++ RESTART_EXT=.false.
++ export FRAZIL_FWSALT=.true.
++ FRAZIL_FWSALT=.true.
++ export CICE_HIST_AVG=.true.
++ CICE_HIST_AVG=.true.
++ export GRIDATM=A
++ GRIDATM=A
++ export GRIDOCN=A
++ GRIDOCN=A
++ export GRIDICE=B
++ GRIDICE=B
++ export WW3RSTDTHR=3
++ WW3RSTDTHR=3
+++ printf %02d 10800
++ export DT_2_RST=10800
++ DT_2_RST=10800
++ export WW3OUTDTHR=3
++ WW3OUTDTHR=3
+++ printf %02d 10800
```



```
++ export DTFLD=10800
++ DTFLD=10800
+++ printf %02d 10800
++ export DTPNT=10800
++ DTPNT=10800
++ export WAV_CUR=C
++ WAV_CUR=C
++ export WAV_ICE=C
++ WAV_ICE=C
++ export WAV_IC1=F
++ WAV_IC1=F
++ export WAV_IC5=F
++ WAV_IC5=F
++ export AOD_FRQ=060000
++ AOD_FRQ=060000
++ export RESTART_FILE_PREFIX=
++ RESTART_FILE_PREFIX=
++ export RESTART_FILE_SUFFIX_SECS=
++ RESTART_FILE_SUFFIX_SECS=
++ export RT35D=
++ RT35D=
++ export RESTART_N=12
++ RESTART_N=12
++ export 'RESTART_INTERVAL=12 -1'
++ RESTART_INTERVAL='12 -1'
++ export 'OUTPUT_FH=0 21 24'
++ OUTPUT_FH='0 21 24'
++ export INPES=3
++ INPES=3
++ export JNPES=8
++ JNPES=8
++ export atm_omp_num_threads=1
++ atm_omp_num_threads=1
++ export WRTTASK_PER_GROUP=6
++ WRTTASK_PER_GROUP=6
++ OCN_tasks=20
++ ICE_tasks=10
++ export WAV_tasks=0
++ WAV_tasks=0
++ export NPROC_ICE=10
++ NPROC_ICE=10
+++ expr 10 / 2
++ export np2=5
++ np2=5
```

```
+++ expr 360 / 5
++ export BLCKX=72
++ BLCKX=72
+++ expr 320 / 2
++ export BLCKY=160
++ BLCKY=160
++ export CPLWAV=.false.
++ CPLWAV=.false.
++ export CPLWAV2ATM=.false.
++ CPLWAV2ATM=.false.
++ export MOM6_USE_WAVES=False
++ MOM6_USE_WAVES=False
++ export eps_imesh=2.5e-1
++ eps_imesh=2.5e-1
++ export CPLCHM=.false.
++ CPLCHM=.false.
++ export DNATS=0
++ DNATS=0
++ export TOPOEDITS=ufs.topo_edits_011818.nc
++ TOPOEDITS=ufs.topo_edits_011818.nc
++ export MOM6_ALLOW_LANDMASK_CHANGES=True
++ MOM6_ALLOW_LANDMASK_CHANGES=True
++ export DIAG_TABLE=diag_table_template
++ DIAG_TABLE=diag_table_template
++ export NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ NEMS_CONFIGURE=nems.configure.cpld_noaero_nowave.IN
++ export FV3_RUN=cpld_control_run.IN
++ FV3_RUN=cpld_control_run.IN
++ [[ linux = cheyenne ]]
+ remove_fail_test
+ echo 'Removing test failure flag file for cpld_control_nowave_noaero_p8_gnu_rst'
+ rm -f /home/builder/ufs-weather-model/tests/fail_test_rst
+ export INPUT_DIR=cpld_control_c96_noaero_p8
+ INPUT_DIR=cpld_control_c96_noaero_p8
+ export
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_rst
+
RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_rst
+ export CNTL_DIR=cpld_control_c96_noaero_p8_std_base
+ CNTL_DIR=cpld_control_c96_noaero_p8_std_base
++ basename /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7
+ export JBNME=opnReqTest_7_rst
```

```
+ JBNME=opnReqTest_7_rst
++ date +%s
+ echo -n 'cpld_control_nowave_noaero_p8_gnu, 1686148106,'
+ export RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_rst_cpld_control_nowave_noaero_p8_gnu_rst.log
+ RT_LOG=/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/rt_rst_cpld_control_nowave_noaero_p8_gnu_rst.log
+ echo 'Test rst cpld_control_nowave_noaero_p8_gnu Fully coupled FV3-CCPP-MOM6-CICE-
CMEPS system - C96MX100'
+ source rt_utils.sh
++ set -eu
++ [[ ./run_test.sh = \r\t\_u\t|i\l\s\.\s\h ]]
++ qsub_id=0
++ slurm_id=0
++ bsub_id=0
+ source atparse.bash
+ rm -rf
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_rst
+ mkdir -p
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_rst
+ cd
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g
nu_rst
+ cp /home/builder/ufs-weather-model/tests/fv3_std.exe fv3.exe
+ mkdir -p modulefiles
+ [[ linux == linux ]]
+ cp /home/builder/ufs-weather-model/tests/modules.fv3_std ./modulefiles/modules.fv3
+ cp /home/builder/ufs-weather-model/modulefiles/ufs_common.lua /home/builder/ufs-
weather-model/modulefiles/ufs_common_spack.lua ./modulefiles/
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ linux == wcross2 ]]
+ [[ linux == acorn ]]
+ [[ linux == hera ]]
+ [[ linux == orion ]]
+ [[ linux == gaea ]]
+ [[ linux == jet ]]
+ [[ linux == cheyenne ]]
+ SRCD=/home/builder/ufs-weather-model
+
RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero
_p8_gnu_rst
+ '[' '!' -z cpld_control_run.IN ']'
```





```
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prdl0s.f77 .
+ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/aerosol.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/freezeH2O.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat .
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2009.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2011.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2012.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2013.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2014.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2015.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2016.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2017.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2018.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2019.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2020.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_2021.txt
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/fix_co2_proj/co2historicaldata_glob.txt
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt
.
+ [[ .false. != .true. ]]
+ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/CFSR.SEAICE.1982.2012.monthly.clim.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/IMS-
NIC.blended.ice.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/RTGSST.1982.2012.monthly.clim.grb /home/builder/data/NEMSfv3gfs/input-
data-20221101/FV3_fix/global_albedo4.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_glacier.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_maxice.2x2.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmax.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_shdmin.0.144x0.144.grb /home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix/global_slope.1x1.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_snoclim.1.875.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_tg3clim.2.6x1.5.grb /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix/global_vegfrac.0.144.decpercent.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_zorclim.1x1.grb
/home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/seaice_newland.grb .
+ [[ false == .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/fd_nems.yaml fd_nems.yaml
+ source ./fv3_run
++ mkdir INPUT RESTART history MOM6_OUTPUT
++ [[ C96 == C96 ]]
++ FV3_DIR=FV3_input_data
++ ICERES=1.00
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ FV3_IC=/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100
++ MOM_IC=/home/builder/data/NEMSfv3gfs/input-data-20221101/MOM6_IC
++ ICE_IC=/home/builder/data/NEMSfv3gfs/input-data-20221101/CICE_IC/100
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/global_soilmgldas.statsgo.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/global_slmask.t1534.3072.1536.grb .
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile1.nc INPUT/oro_data.tile1.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile2.nc INPUT/oro_data.tile2.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile3.nc INPUT/oro_data.tile3.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile4.nc INPUT/oro_data.tile4.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile5.nc INPUT/oro_data.tile5.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/oro_C96.mx100.tile6.nc INPUT/oro_data.tile6.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile1.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile2.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile3.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile4.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile5.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.facsf.tile6.nc /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.maximum_snow_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.slope_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.slope_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.snowfree_albedo.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile3.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_type.tile5.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_fix_tiled/C96/C96.soil_type.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
```



```
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.substrate_temperature.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_greenness.tile6.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile1.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.vegetation_type.tile6.nc .
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/CPL_FIX/aC96o100/grid_spec.nc
./INPUT
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT/C96_grid.tile1.nc /home/builder/data/NEMSFv3gfs/input-
data-20221101/FV3_input_data/INPUT/C96_grid.tile2.nc
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile3.nc
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile4.nc
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile5.nc
/home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data/INPUT/C96_grid.tile6.nc
./INPUT
++ cp /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_input_data/INPUT/grid_spec.nc ./INPUT/C96_mosaic.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/MOM6_FIX/100/KH_background_2d.nc
```

```
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/MOM_channels_SPEAR
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/MOM_override
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xland_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/atmos_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/hycom1_75_800m.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/interpolate_zgrid_40L.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/land_mask.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/land_mosaic_tile1Xocean_mosaic_tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/layer_coord.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_hgrid.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_mask.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/ocean_mosaic.nc
/home/builder/data/NEMSFV3GFS/input-data-20221101/MOM6_FIX/100/seawifs_1998-
2006_smoothed_2X.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/tidal_amplitude.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/topo_edits_011818.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/topog.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/ufs.topo_edits_011818.nc /home/builder/data/NEMSFV3GFS/input-data-
20221101/MOM6_FIX/100/vgrid_75_2m.nc ./INPUT
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/CICE_FIX/100/grid_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/CICE_FIX/100/kmtu_cice_NEMS_mx100.nc .
++ cp /home/builder/data/NEMSFV3GFS/input-data-20221101/CICE_FIX/100/mesh.mx100.nc .
++ [[ .false. == .true. ]]
++ '[' .false. = .true. ']'
++ OPNREQ_TEST=false
++ SUFFIX=_rst
++ '[' .false. = .false. ']'
++ cp /home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile1.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile2.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile3.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile4.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile5.nc
/home/builder/data/NEMSFV3GFS/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/sfc_data.tile6.nc ./INPUT
```

```
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile3.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile4.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile5.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_data.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127_mx100/gfs_ctrl.nc ./INPUT
++ [[ .false. == .true. ]]
++ [[ C96 == C48 ]]
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/MOM6_IC/MOM6_IC_TS_2021032206.nc
./INPUT/MOM6_IC_TS.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/CICE_IC/100/cice_model_1.00.cpc.res_20210322.nc ./cice_model.res.nc
++ '[' .false. = .true. ']'
++ '[' 1011 = 1011 ']'
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m01.nc
aerochim.m01.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m02.nc
aerochim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m03.nc
aerochim.m03.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m04.nc
aerochim.m04.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m05.nc
aerochim.m05.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
```

```
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m06.nc
aerochim.m06.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m07.nc
aerochim.m07.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m08.nc
aerochim.m08.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m09.nc
aerochim.m09.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m10.nc
aerochim.m10.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m11.nc
aerochim.m11.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerchim.2003-2014.m12.nc
aerochim.m12.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data_INCCN_aerochim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ cp /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_input_data/ugwp_c384_tau.nc
./ugwp_limb_tau.nc
++ cp /home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile1.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile2.nc
/home/builder/data/NEMSfv3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile3.nc
```

```

/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ls.tile6.nc ./INPUT
++ cp /home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile1.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile2.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile3.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile4.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile5.nc
/home/builder/data/NEMSFV3gfs/input-data-
20221101/FV3_input_data/INPUT_L127/oro_data_ss.tile6.nc ./INPUT
++ '[' 8 = 8 ']'
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/CCN_ACTIVATE.BIN
CCN_ACTIVATE.BIN
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/freezeH20.dat
freezeH20.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat
qr_acr_qgV2.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat
qr_acr_qsV2.dat
++ '[' .false. = .true. ']'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\a\l\s\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace ']'
+ __set_x='set -x'
+ set +x
+ atparse

```





```
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

```
The total amount of wall time           = 3349.404370
The maximum resident set size (KB)     = 1257436
```

```
Test dbg_base control_p8_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 00h:57m:18s. Have a nice day!
```

```
opnReqTest finished
```

```
'rst']
```

```
WARNING from PE      0: MOM_obsolete_params: ETA_TOLERANCE_AUX is an obsolete run-time
flag.
```

```
WARNING from PE      0: Open_file is appending .nc to the filename
MOM6_OUTPUT/ocean_geometry
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
Post stage
```

```
[Pipeline] sh
```

```
'dbg'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f b2ce37dc8903
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:b2ce37dc8903ef456e928897f55bcc40d92ed7463b89a86324739b
```

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 06d1be41bd15
```

```
Untagged: noaaepic/input-data:20221101
```



```
Untagged: noaaepic/input-  
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a  
Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181  
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d  
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }
```

```
'rst']
```

```
WARNING from PE      0: MEKE_init: Initializing MEKE with a local equilibrium balance.
```

```
WARNING from PE      0: KVML is a deprecated parameter. Use KV_ML_INVZ2 instead.
```

```
WARNING from PE      0: set_diffusivity_init: SIMPLE_TKE_TO_KD can not be used reliably  
with USE_REGRIDDING.
```

```
WARNING from PE      0: read_field_2d:time level specified, but the variable tideamp does  
not have an unlimited dimension in INPUT/tidal_amplitude.nc
```

```
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_INCUPT_FILE =  
"mom6_increment.nc"
```

```
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_TEMPINC_VAR = "pt_inc"
```

```
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_SALTINC_VAR = "s_inc"
```

```
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_THK_VAR = "h_fg"
```

```
WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_UINC_VAR = "u_inc"
```

```

WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_VINC_VAR = "v_inc"

WARNING from PE      0: Unused line in INPUT/MOM_input : ODA_INCUPD_NHOURS = 6

WARNING from PE      0: Unused line in INPUT/MOM_input : WAVE_METHOD = "SURFACE_BANDS"

WARNING from PE      0: Unused line in INPUT/MOM_input : SURFBAND_SOURCE = "COUPLER"

WARNING from PE      0: Unused line in INPUT/MOM_input : STK_BAND_COUPLER = 3

WARNING from PE      0: Unused line in INPUT/MOM_input : SURFBAND_WAVENUMBERS = 0.04,
0.11, 0.3305

```

```

'thr'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686149102, 3'
+ [[ false = true ]]
+ elapsed=2220
+ echo 'Elapsed time 2220 seconds. Test regional_control_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/regional_control_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
Checking test std_base regional_control_gnu results ....
Moving baseline std_base regional_control_gnu files ....
  Moving dynf000.nc .....OK
  Moving dynf006.nc .....OK
  Moving phyf000.nc .....OK

```

```
Moving phyf006.nc .....OK
Moving PRSLEV.GrbF00 .....OK
Moving PRSLEV.GrbF06 .....OK
Moving NATLEV.GrbF00 .....OK
Moving NATLEV.GrbF06 .....OK
```

```
The total amount of wall time           = 2174.262059
The maximum resident set size (KB)      = 821820
```

```
Test std_base regional_control_gnu PASS
```

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/regional_control_std_base_gnu
working dir =
```

```
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_thr
```

```
Checking test thr regional_control_gnu results ....
```

```
Comparing dynf000.nc .....OK
Comparing dynf006.nc .....OK
Comparing phyf000.nc .....OK
Comparing phyf006.nc .....OK
Comparing PRSLEV.GrbF00 .....OK
Comparing PRSLEV.GrbF06 .....OK
Comparing NATLEV.GrbF00 .....OK
Comparing NATLEV.GrbF06 .....OK
```

```
The total amount of wall time           = 2210.147838
The maximum resident set size (KB)      = 820376
```

```
Test thr regional_control_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 01h:16m:16s. Have a nice day!
```

```
opnReqTest finished
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
Post stage
```

```
[Pipeline] sh
```

```
'thr'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 7883e074b1f8
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:7883e074b1f82973183442bfd4abbd093a8bb50c091152dbec3acd2d7cfc558a
```

```

++ docker image ls
++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 06d1be41bd15
Untagged: noaaepic/input-data:20221101
Untagged: noaaepic/input-
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
'dcp'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686149237, 3'
+ [[ false = true ]]
+ elapsed=2125
+ echo 'Elapsed time 2125 seconds. Test regional_control_gnu'
+ '[' 0 -eq 0 -o 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/regional_control_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_dcp
Checking test dcp regional_control_gnu results ....
Comparing dynf000.nc .....OK
Comparing dynf006.nc .....OK
Comparing phyf000.nc .....OK
Comparing phyf006.nc .....OK

```

```
Comparing PRSLEV.GrbF00 .....OK
Comparing PRSLEV.GrbF06 .....OK
Comparing NATLEV.GrbF00 .....OK
Comparing NATLEV.GrbF06 .....OK
```

```
The total amount of wall time           = 2115.434785
The maximum resident set size (KB)      = 821672
```

Test dcp regional\_control\_gnu PASS

```
baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/regional_control_std_base_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_8/regional_control_gnu_std_base
```

Checking test std\_base regional\_control\_gnu results ....

Moving baseline std\_base regional\_control\_gnu files ....

```
Moving dynf000.nc .....OK
Moving dynf006.nc .....OK
Moving phyf000.nc .....OK
Moving phyf006.nc .....OK
Moving PRSLEV.GrbF00 .....OK
Moving PRSLEV.GrbF06 .....OK
Moving NATLEV.GrbF00 .....OK
Moving NATLEV.GrbF06 .....OK
```

```
The total amount of wall time           = 2073.300125
The maximum resident set size (KB)      = 819756
```

Test std\_base regional\_control\_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:13m:01s. Have a nice day!

opnReqTest finished

[Pipeline] }

[Pipeline] // stage

Post stage

[Pipeline] sh

```
'dcp'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f e4ce348fb90f
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:e4ce348fb90fb1f54e4feeca9d7669874d259c1c152574c74942f8242ea6386b
```

```

++ docker image ls
++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 06d1be41bd15
Untagged: noaaepic/input-data:20221101
Untagged: noaaepic/input-
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Deleted: sha256:06d1be41bd15c135d75e718cde29d9bea0882409707a052d96df384beccafd181
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
'rst']                               Memuse(MB) at Memory HiWaterMark=  5.934E+02  6.465E+02
  1.077E+01  6.031E+02
'dbg']                               Memuse(MB) at Memory HiWaterMark=  6.046E+02  6.570E+02
  1.014E+01  6.146E+02
'rst'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686151461, 5'
+ [[ false = true ]]
+ elapsed=3355
+ echo 'Elapsed time 3355 seconds. Test cpld_control_nowave_noaero_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory

baseline dir =
/home/builder/stmp4/builder/FV3_OPNREQ_TEST/OPNREQ_TEST/cpld_control_c96_noaero_p8_std_b
ase_gnu
working dir =
/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_g

```

nu\_rst

Checking test rst cpld\_control\_nowave\_noaero\_p8\_gnu results ....

Comparing sfcf021.tile1.nc .....OK  
Comparing sfcf021.tile2.nc .....OK  
Comparing sfcf021.tile3.nc .....OK  
Comparing sfcf021.tile4.nc .....OK  
Comparing sfcf021.tile5.nc .....OK  
Comparing sfcf021.tile6.nc .....OK  
Comparing atmf021.tile1.nc .....OK  
Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK

```
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
```

The total amount of wall time = 3136.660569

The maximum resident set size (KB) = 1374836

Test rst cpld\_control\_nowave\_noaero\_p8\_gnu PASS

baseline dir =

/home/builder/stmp4/builder/FV3\_OPNREQ\_TEST/OPNREQ\_TEST/cpld\_control\_c96\_noaero\_p8\_std\_base\_gnu

working dir =

/home/builder/stmp2/builder/FV3\_OPNREQ\_TEST/opnReqTest\_7/cpld\_control\_nowave\_noaero\_p8\_gnu\_std\_base

Checking test std\_base cpld\_control\_nowave\_noaero\_p8\_gnu results ....

Moving baseline std\_base cpld\_control\_nowave\_noaero\_p8\_gnu files ....

Moving sfcf021.tile1.nc .....OK

Moving sfcf021.tile2.nc .....OK

Moving sfcf021.tile3.nc .....OK

Moving sfcf021.tile4.nc .....OK

Moving sfcf021.tile5.nc .....OK

Moving sfcf021.tile6.nc .....OK

Moving atmf021.tile1.nc .....OK

Moving atmf021.tile2.nc .....OK

Moving atmf021.tile3.nc .....OK

Moving atmf021.tile4.nc .....OK

Moving atmf021.tile5.nc .....OK

Moving atmf021.tile6.nc .....OK



```
Moving sfcf024.tile1.nc .....OK
Moving sfcf024.tile2.nc .....OK
Moving sfcf024.tile3.nc .....OK
Moving sfcf024.tile4.nc .....OK
Moving sfcf024.tile5.nc .....OK
Moving sfcf024.tile6.nc .....OK
Moving atmf024.tile1.nc .....OK
Moving atmf024.tile2.nc .....OK
Moving atmf024.tile3.nc .....OK
Moving atmf024.tile4.nc .....OK
Moving atmf024.tile5.nc .....OK
Moving atmf024.tile6.nc .....OK
Moving RESTART/20210323.060000.coupler.res .....OK
Moving RESTART/20210323.060000.fv_core.res.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Moving RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile1.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile2.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile3.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile4.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile5.nc .....OK
Moving RESTART/20210323.060000.phy_data.tile6.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Moving RESTART/20210323.060000.sfc_data.tile6.nc .....OK
```

```
Moving RESTART/20210323.060000.MOM.res.nc .....OK
Moving RESTART/iced.2021-03-23-21600.nc .....OK
Moving RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
```

```
The total amount of wall time           = 3192.059064
The maximum resident set size (KB)      = 1373168
```

```
Test std_base cpld_control_nowave_noaero_p8_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 01h:52m:38s. Have a nice day!
```

```
opnReqTest finished
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
Post stage
```

```
[Pipeline] sh
```

```
'rst'] ++ docker image ls
```

```
++ grep -E -m1 ci-test-weather
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 5653957a3c2e
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:5653957a3c2e79fd2aad7e3073c03980d821122b9cebb1345e3e0b4e23406928
```

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 06d1be41bd15
```

```
Untagged: noaaepic/input-data:20221101
```

```
Untagged: noaaepic/input-
```

```
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
```

```
Deleted: sha256:06d1be41bd15c135d75e718cde29d9bea0882409707a052d96df384beccafd181
```

```
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
```

```
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

```
[Pipeline] // node
```

```
[Pipeline] }
```

```
[Pipeline] // withEnv
```

```
[Pipeline] }
```

```
[Pipeline] // stage
```

```
[Pipeline] }
```

```
'dbg'] + [[ false = false ]]
```

```
+ check_results
```

```
+ '[' -o xtrace ']
```

```
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1686151663, 5'
+ [[ false = true ]]
+ elapsed=6707
+ echo 'Elapsed time 6707 seconds. Test cpld_control_nowave_noaero_p8_gnu'
+ '[' 0 -eq 0 ']'
cat: '/home/builder/ufs-weather-
model/tests/logs/log_opnReqTest_linux/compile_*_time.log': No such file or directory
```

baseline dir =

/home/builder/stmp4/builder/FV3\_OPNREQ\_TEST/OPNREQ\_TEST/cpld\_control\_c96\_noaero\_p8\_dbg\_b
ase\_gnu

working dir =

/home/builder/stmp2/builder/FV3\_OPNREQ\_TEST/opnReqTest\_7/cpld\_control\_nowave\_noaero\_p8\_g
nu\_dbg\_base

Checking test dbg\_base cpld\_control\_nowave\_noaero\_p8\_gnu results ....

Moving baseline dbg\_base cpld\_control\_nowave\_noaero\_p8\_gnu files ....

Moving sfcf021.tile1.nc .....OK

Moving sfcf021.tile2.nc .....OK

Moving sfcf021.tile3.nc .....OK

Moving sfcf021.tile4.nc .....OK

Moving sfcf021.tile5.nc .....OK

Moving sfcf021.tile6.nc .....OK

Moving atmf021.tile1.nc .....OK

Moving atmf021.tile2.nc .....OK

Moving atmf021.tile3.nc .....OK

Moving atmf021.tile4.nc .....OK

Moving atmf021.tile5.nc .....OK

Moving atmf021.tile6.nc .....OK

Moving sfcf024.tile1.nc .....OK

Moving sfcf024.tile2.nc .....OK

Moving sfcf024.tile3.nc .....OK

Moving sfcf024.tile4.nc .....OK

Moving sfcf024.tile5.nc .....OK

Moving sfcf024.tile6.nc .....OK

Moving atmf024.tile1.nc .....OK

Moving atmf024.tile2.nc .....OK

Moving atmf024.tile3.nc .....OK

Moving atmf024.tile4.nc .....OK

Moving atmf024.tile5.nc .....OK

Moving atmf024.tile6.nc .....OK  
Moving RESTART/20210323.060000.coupler.res .....OK  
Moving RESTART/20210323.060000.fv\_core.res.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Moving RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Moving RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Moving RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Moving RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Moving RESTART/20210323.060000.sfc\_data.tile6.nc .....OK  
Moving RESTART/20210323.060000.MOM.res.nc .....OK  
Moving RESTART/iced.2021-03-23-21600.nc .....OK  
Moving RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK

The total amount of wall time = 6691.343319  
The maximum resident set size (KB) = 1403256

Test dbg\_base cpld\_control\_nowave\_noaero\_p8\_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:53m:08s. Have a nice day!

```
    opnReqTest finished
    [Pipeline] }
    [Pipeline] // stage
    Post stage
    [Pipeline] sh
'dbg'] ++ docker image ls
++ grep -E -m1 ci-test-weather
++ awk '{ print $3 }'
+ docker rmi -f 952cd2c32772
Untagged: ci-test-weather:latest
Deleted: sha256:952cd2c3277263e0271c9095d282a678a2c55e7e49579bb0db8841be3ec8e477
++ docker image ls
++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 06d1be41bd15
Untagged: noaaepic/input-data:20221101
Untagged: noaaepic/input-
data@sha256:6495e6a8c76b44f8b54cd9805bb68d3d47504d06737455bec98512dac4948c8a
Deleted: sha256:06d1be41bd15c135d75e718cde29dbea0882409707a052d96df384beccafd181
Deleted: sha256:a10738fec5cfe14e9a8a867867c0abf907e46a55139d31ca4c98b47065eea12d
Deleted: sha256:50644c29ef5a27c9a40c393a73ece2479de78325cae7d762ef3cdc19bf42dd0a
    [Pipeline] }
    [Pipeline] // withEnv
    [Pipeline] }
    [Pipeline] // node
    [Pipeline] }
    [Pipeline] // withEnv
    [Pipeline] }
    [Pipeline] // stage
    [Pipeline] }
    [Pipeline] // parallel
    [Pipeline] }
    [Pipeline] // stage
    [Pipeline] End of Pipeline
```

GitHub has been notified of this commit's build result

Finished: SUCCESS