



- 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
23:50:36 Connecting to https://api.github.com using Github App for Jenkins
Obtained tests/ci/Jenkinsfile from f2ec49565fe1c723884124ffda4e2a24d3c5efd1+41811b8a01cd1a2fb069290a261a6868b3d5fda6
(59911a126602630b787f60c523333afb3fe069ad)
[Pipeline] Start of Pipeline
[Pipeline] stage
[Pipeline] { (Launch SonarQube)
[Pipeline] script
[Pipeline] {
[Pipeline] build (Building ufs-weather-model » ufs-wm-sonarqube)
Scheduling project: ufs-weather-model » ufs-wm-sonarqube
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[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 = 'cp1d_control_nowave_noaero_p8', TEST_CASE = 'rst')
[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 = 'cp1d_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
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[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
Waiting for next available executor on 'docker-ufs-wm-ci'
thr'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
mpi'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
dcp'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
dcp'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
rst'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
rst'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
bit'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
dbg'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
dbg'] Still waiting to schedule task
Waiting for next available executor on 'docker-ufs-wm-ci'
```

```

thr' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-052957d10e0675283) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
thr' ] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] checkout
thr' ] The recommended git tool is: /usr/local/git-2.38.0/bin/git
using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
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-1894 # 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
thr' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0ecb947c7785b9bbb) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
thr' ] [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] checkout
thr' ] The recommended git tool is: /usr/local/git-2.38.0/bin/git
thr' ] Fetching without tags
Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
> /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/1894/head:refs/remotes/origin/PR-1894 # 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/1894/head:refs/remotes/origin/PR-1894 +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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # timeout=10
Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
Commit message: "add new BL_DATE"
First time build. Skipping changelog.
thr' ] using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
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-1894 # timeout=10
dcp' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0f34573d6205e9694) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
mpi' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-00500aaafc4b71221a) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {

```

```

thr' ] > /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 41811b8a01cd1a2fb069290a261a6868b3d5fda6 # 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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # 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
dcp' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-07301db05bc17eeba) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] withEnv
[Pipeline] {
[Pipeline] {
rst' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0f54791c8606dbc49) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
thr' ] 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
dcp' ] [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] checkout
dcp' The recommended git tool is: /usr/local/git-2.38.0/bin/git
[Pipeline] checkout
mpi' The recommended git tool is: /usr/local/git-2.38.0/bin/git
[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] checkout
dcp' The recommended git tool is: /usr/local/git-2.38.0/bin/git
[Pipeline] checkout
rst' The recommended git tool is: /usr/local/git-2.38.0/bin/git
thr' > /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' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
mpi' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
dcp' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
rst' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
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-1894 # 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-1894 # 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-1894 # 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-1894 # timeout=10
dcp' 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
mpi' 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
dcp' 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
rst' 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10

```

```

thr' ] Fetching without tags
Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
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
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch +refs/pull/1894/head:refs/remotes/origin/PR-1894 # 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/1894/head:refs/remotes/origin/PR-1894 +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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # 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 41811b8a01cd1a2fb069290a261a6868b3d5fda6 # 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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # 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
bit' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0365a50fdb9f51fdd) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
rst' ] Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-05f3509079d119ed1) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
bit' ] [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] checkout
bit' ] The recommended git tool is: /usr/local/git-2.38.0/bin/git
[Pipeline] checkout
rst' ] The recommended git tool is: /usr/local/git-2.38.0/bin/git
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

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> /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 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/1894/head:refs/remotes/origin/PR-1894 # 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
bit'] using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
dcp'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
rst'] using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
dcp'] Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
Commit message: "add new BL_DATE"
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-1894 # 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-1894 # timeout=10
dcp'] Fetching without tags
rst'] Fetching without tags
dcp'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
dcp'] > /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/1894/head:refs/remotes/origin/PR-1894 +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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # 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
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> /usr/local/git-2.38.0/bin/git rev-parse HEAD^{commit} # timeout=10
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> /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
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> /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

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> /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
rst'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
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Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
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dcp'] 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
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> /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
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> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
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bit'] 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
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rst'] Commit message: "add new BL_DATE"
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> /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
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mpi'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)

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Commit message: "add new BL_DATE"
dcp'] > /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
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> /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
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 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
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> /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

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> /usr/local/git-2.38.0/bin/git config --get submodule.WW3.url # timeout=10
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> /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
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> /usr/local/git-2.38.0/bin/git config --get submodule.GOCART.url # timeout=10
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> /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
bit'] Fetching without tags
rst'] Fetching without tags
bit'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
rst'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
bit'] Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
rst'] Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
bit'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-community/ufs-weather-model.git # timeout=10
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> /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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
> /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10

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> /usr/local/git-2.38.0/bin/git checkout -f f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # 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 41811b8a01cd1a2fb069290a261a6868b3d5fda6 # 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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # timeout=10
Commit message: "add new BL_DATE"
rst'] 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
> /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch +refs/pull/1894/head:refs/remotes/origin/PR-1894 # 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
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> /usr/local/git-2.38.0/bin/git checkout -f f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # timeout=10
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> /usr/local/git-2.38.0/bin/git submodule init # timeout=10
bit'] > /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
rst'] > /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

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> /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' Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-05a8273e4270bf185) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
dbg' [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] checkout
dbg' The recommended git tool is: /usr/local/git-2.38.0/bin/git
thr' > /usr/local/git-2.38.0/bin/git submodule update --init --recursive WW3 # timeout=10
dbg' Running on EC2 (ec2-NOAA Cloud) - EPIC Rocky 8 Docker UFS WM CI (i-0ba1904076fa98ac0) in /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[Pipeline] {
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Initialize)
[Pipeline] cleanWs
dbg' [WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] done
[Pipeline] checkout
dbg' The recommended git tool is: /usr/local/git-2.38.0/bin/git
dbg' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
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-1894 # timeout=10
dbg' using credential JenkinsEPIC
Cloning the remote Git repository
Cloning with configured refspecs honoured and without tags
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-1894 # 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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10

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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/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # 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 stochastic_physics # timeout=10
dbg'] Fetching without tags
dbg'] > /usr/local/git-2.38.0/bin/git config remote.origin.url https://github.com/ufs-community/ufs-weather-model.git # timeout=10
dbg'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
dbg'] Fetching without tags
dbg'] Merge succeeded, producing f2ec49565fe1c723884124ffda4e2a24d3c5efd1
Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
thr'] > /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'] Merging remotes/origin/develop commit 41811b8a01cd1a2fb069290a261a6868b3d5fda6 into PR head commit f2ec49565fe1c723884124ffda4e2a24d3c5efd1
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
  > /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch +refs/pull/1894/head:refs/remotes/origin/PR-1894 # 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
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  > /usr/local/git-2.38.0/bin/git fetch --no-tags --force --progress -- https://github.com/ufs-community/ufs-weather-model.git
+refs/pull/1894/head:refs/remotes/origin/PR-1894 +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 f2ec49565fe1c723884124ffda4e2a24d3c5efd1 # timeout=10
  > /usr/local/git-2.38.0/bin/git remote # timeout=10
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  > /usr/local/git-2.38.0/bin/git remote # timeout=10
  > /usr/local/git-2.38.0/bin/git submodule init # timeout=10
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Checking out Revision f2ec49565fe1c723884124ffda4e2a24d3c5efd1 (PR-1894)
Commit message: "add new BL_DATE"
  > /usr/local/git-2.38.0/bin/git config --add remote.origin.fetch +refs/pull/1894/head:refs/remotes/origin/PR-1894 # 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
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+refs/pull/1894/head:refs/remotes/origin/PR-1894 +refs/heads/develop:refs/remotes/origin/develop # timeout=10
  > /usr/local/git-2.38.0/bin/git config core.sparsecheckout # timeout=10
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  > /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

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> /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
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> /usr/local/git-2.38.0/bin/git config --get submodule.MOM6.url # timeout=10
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dbg'] > /usr/local/git-2.38.0/bin/git submodule sync # timeout=10
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> /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 --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
rst'] > /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 stochastic_physics # 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 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
mpi'] > /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 CICE-interface/CICE # timeout=10
thr'] > /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 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
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
mpi'] > /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
dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMakeModules # timeout=10
rst'] > /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 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 submodule update --init --recursive CMEPS-interface/CMEPS # timeout=10
thr'] > /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 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 CMakeModules # timeout=10
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive CMEPS-interface/CMEPS # 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
mpi'] > /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 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 CICE-interface/CICE # 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 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 --version # timeout=10
> git --version # 'git version 2.39.3'
[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-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
dcp'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE # 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
thr'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAAHMP-interface/noahmp # timeout=10
dbg'] > /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 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 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 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 WW3 # 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
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
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
thr'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)

```



```

[Pipeline] sh
dbg' > /usr/local/git-2.38.0/bin/git submodule update --init --recursive stochastic_physics # timeout=10
thr' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
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
> /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 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
rst' > /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 NOAHMP-interface/noahmp # timeout=10
rst' > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
rst' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
dbg' > /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 --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
mpi' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
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 NOAHMP-interface/noahmp # timeout=10
dcp' > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
dcp' > /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
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
[Pipeline] }
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
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
dcp' > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
dcp' + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
[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-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
thr' #0 building with "default" instance using docker driver

```

```
#1 [internal] load build definition from Dockerfile
#1 transferring 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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
#4 transferring context: 453.12MB 2.7s done
#4 DONE 2.7s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive CICE-interface/CICE # timeout=10
rst'] #0 building with "default" instance using docker driver

#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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
thr'] #0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring 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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
```

```
mpi'] #0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring 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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
rst'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-interface/noahmp # timeout=10
> /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
bit'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
rst'] #4 transferring context: 453.12MB 2.6s done
#4 DONE 2.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
thr'] #4 transferring context: 453.12MB 2.7s done
#4 DONE 2.7s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
[Pipeline] sh
[Pipeline] }
rst'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
dbg'] > /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
> /usr/local/git-2.38.0/bin/git submodule update --init --recursive GOCART # timeout=10
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
dcp'] #0 building with "default" instance using docker driver

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

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.1s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...
```

```
#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
mpi'] #4 transferring context: 453.12MB 2.6s done
#4 DONE 2.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
bit'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
dcp'] #0 building with "default" instance using docker driver

#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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.2s

#4 [internal] load build context
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'] #4 transferring context: 453.12MB 2.7s done
#4 DONE 2.7s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
dcp'] #4 transferring context: 453.12MB 2.5s done
#4 DONE 2.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
bit'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-interface/noahmp # timeout=10
dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive AQM # timeout=10
dbg'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
[Pipeline] }
[Pipeline] // stage
dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAHMP-interface/noahmp # timeout=10
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
thr'] #6 DONE 8.4s

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

#8 exporting to image
#8 exporting layers
bit'] #0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring 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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
dbg'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
dbg'] > /usr/local/git-2.38.0/bin/git --version # timeout=10
> git --version # 'git version 2.39.3'
bit'] #4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.4s

#4 [internal] load build context
rst'] #0 building with "default" instance using docker driver

#1 [internal] load .dockerignore
#1 transferring context: 161B done
#1 DONE 0.1s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 579B 0.0s done
#2 DONE 0.1s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#3 DONE 0.0s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#4 DONE 0.2s

#5 [internal] load build context
[Pipeline] }
thr'] #8 exporting layers 2.5s done
#8 writing image sha256:8f786b0b2f534d504b6ac7609a5bbf1f3f9285cd80929802043b31463c0a8767 done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.6s
[Pipeline] // stage
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
[Pipeline] sh
dbg'] + docker build --build-arg test_name= --build-arg build_case= --no-cache --compress --file /home/rocky/workspace/odel_ort-docker-
pipeline_PR-1894/tests/ci/Dockerfile --tag ci-test-weather /home/rocky/workspace/odel_ort-docker-pipeline_PR-1894
thr'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
rst'] #6 DONE 8.3s

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

#8 exporting to image
#8 exporting layers
thr'] #6 DONE 8.2s

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

#8 exporting to image
```

```

#8 exporting layers
rst'] #5 transferring context: 453.12MB 2.5s done
#5 DONE 2.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
bit'] #4 transferring context: 453.12MB 2.6s done
#4 DONE 2.7s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
dbg'] > /usr/local/git-2.38.0/bin/git submodule update --init --recursive NOAAHMP-interface/noahmp # timeout=10
rst'] #8 exporting layers 2.4s done
#8 writing image sha256:77db48eaa92c4629bfcfb870689999ec6e4d4164ccdc16d49c3a22f9a03127d6 done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.4s
thr'] #8 exporting layers 2.5s done
#8 writing image sha256:1472b77fd18870ef57ccdb3ef23aa7a143f3370c5349b660e6dff55e240308c9 done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.5s
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] // stage
mpi'] #6 DONE 8.4s

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

#8 exporting to image
#8 exporting layers
dcp'] #6 DONE 8.1s

#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] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
[Pipeline] sh
dcp'] #6 DONE 8.4s

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

#8 exporting to image
#8 exporting layers
thr'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
rst'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
mpi'] #8 exporting layers 2.4s done
#8 writing image sha256:a37015b7a55a0c089228af813b48d64572d335e73589502e5171663ebd3f44b0 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
mpi'] + docker volume rm --force DataVolume
DataVolume

```

```

+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
dbg'] #0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring 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:v2.0
#3 DONE 0.0s

#4 [internal] load build context
#4 ...

#5 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#5 DONE 0.1s

#4 [internal] load build context
dcp'] #8 exporting layers 2.4s done
#8 writing image sha256:432e06d0958203f2bcfd4c0d81b6d72b5930674e6effde87f2587def4c6f1d 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'] #8 exporting layers 2.3s done
#8 writing image sha256:3ac23e3268a778cdf9468378deda116d106d748fca194fc8157a9f081ccc17b1 done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.3s
[Pipeline] }
dcp'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
dbg'] #0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile:
#1 transferring dockerfile: 579B 0.0s done
#1 DONE 0.1s

#2 [internal] load .dockerignore
#2 transferring context: 161B done
#2 DONE 0.1s

#3 [internal] load metadata for docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#3 DONE 0.0s

#4 [1/3] FROM docker.io/noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
#4 DONE 0.2s

#5 [internal] load build context
dcp'] + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
dbg'] #4 transferring context: 453.12MB 2.6s done
#4 DONE 2.6s

```



```
#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
dbg' #5 transferring context: 453.12MB 2.5s done
#5 DONE 2.6s

#6 [2/3] COPY --chown=builder:builder . /home/builder/ufs-weather-model
rst' #6 DONE 8.3s

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

#8 exporting to image
#8 exporting layers
bit' #6 DONE 8.3s

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

#8 exporting to image
#8 exporting layers
rst' #8 exporting layers 2.4s done
#8 writing image sha256:9ba5ae7f647741dc50c326e69153c9471f4b7400fb5726a8eab3cb657c7918 done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.4s
[Pipeline] }
[Pipeline] // stage
bit' #8 exporting layers 2.4s done
#8 writing image sha256:e5304c7ad6240b0a8ff90eb588103a32e155a8727b0b35feb342b3379b65161f done
#8 naming to docker.io/library/ci-test-weather done
#8 DONE 2.4s
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
[Pipeline] sh
rst' + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
bit' + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
dbg' #6 DONE 9.9s

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

#8 exporting to image
#8 exporting layers
dbg' #6 DONE 9.8s

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

#8 exporting to image
#8 exporting layers
dbg' #8 exporting layers 2.3s done
#8 writing image sha256:826a42702a8ee3b0d0c4087227a4e7e8e1b71dcf3f1aaa21764207f324a3875a 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
dbg' + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
dbg' #8 exporting layers 2.4s done
#8 writing image sha256:7b7a294e1b3d46720cb576bb5f78b7a57154d9dc9b46bac6a9ce9bb30b3fdcf done
#8 naming to docker.io/library/ci-test-weather 0.0s done
#8 DONE 2.4s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Stage Test Data)
[Pipeline] sh
dbg' + docker volume rm --force DataVolume
DataVolume
+ docker run --detach --rm --volume DataVolume:/tmp noaaepic/input-data:20221101
bit' 7b071f5da63c41ff5c5f98f5ee7efca254e4d6b32387affe739f84a06b8c3be0
rst' c975657df604881bd7b83c837b1ce48ba65b2b4ed4f08a12b44bd3adab54fe47
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
[Pipeline] sh
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-size=16gb ci-test-weather
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
thr' d649be679cd7cc417fd7823a31988f2415750d767f49f9a5ccd6f7d2e4ef170e
[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
bit' 812c3c6a0bb6
WARNING: UNKNOWN PLATFORM
rst' a5ad1e5d62bf
WARNING: UNKNOWN PLATFORM
test name: cpld_control_nowave_noaero_p8
bit' test name: control_p8
cases to compile: bit
rst' cases to compile: std
compiling std with compile option -DAPP=S2SW -DCCPP_SUITES=FV3_GFS_v17_coupled_p8
bit' compiling bit with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v17_p8,FV3_GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_1am3km,FV3_WoFS_v0,FV3_GFS_v17_p8
_mynn
thr' 09c1cc19c6cf
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_v17_p8,FV3_GFS_v17_p8_rrtmgp,FV3_GFS_v15_thompson_mynn_1am3km,FV3_WoFS_v0,FV3_GFS_v17_p8
_mynn -D32BIT=ON
rst' cc403c7b0189c3aa11407fa62a7e84b4452a05317ab402fb74b467f3b1f81964
thr' 4f462df6f1a562bbdbc6b72b9bca52b25c006e164690d401295fff75331c411
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
[Pipeline] // stage
[Pipeline] stage

```

```

[Pipeline] { (Test)
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
[Pipeline] sh
mpi' ] 7c06c6f7094f37fde945e69b3c21a405536d61bd3120495f207f5617ee9c18f4
[Pipeline] }
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
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
[Pipeline] // stage
dbg' ] 39e714823469aa0ca56b8827b2b74c0e8b1ed79f820279ffe8a43c990aac1b8d
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
[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
rst' ] d7782edec97d
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
rst' ] WARNING: UNKNOWN PLATFORM
test name: control_p8
cases to compile: std
thr' ] 32ae57e4d18d
WARNING: UNKNOWN PLATFORM
test name: regional_control
cases to compile: std
rst' ] compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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' ] compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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' ] 13a9b2218b08c59d28cb6a3e563e40ed6f4cd4ca6394ecea263a0d0272306938
[Pipeline] }
mpi' ] c0c5f1156014
[Pipeline] // stage
dbg' ] 0009522daf8b
[Pipeline] stage
[Pipeline] { (Test)
dbg' ] ab402ed800d58fe479884ced00ac324421d45444d243a77852a84c77be0d0725
dcp' ] eb8aafb72605f4ca90f15387eeb8eb9aef311098286d65397524f3bff4e3f1c1
mpi' ] WARNING: UNKNOWN PLATFORM
test name: control_p8
dbg' ] 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
[Pipeline] }
[Pipeline] }
mpi' ] cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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
[Pipeline] // stage
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] stage
[Pipeline] { (Test)

```

```

[Pipeline] sh
[Pipeline] sh
[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
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
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
dcp'] 5493ee81bd60
dcp'] e83c2645abd1
dbg'] d1597edb2daf
dcp'] WARNING: UNKNOWN PLATFORM
test name: control_p8
dcp'] WARNING: UNKNOWN PLATFORM
test name: regional_control
cases to compile: std
dbg'] WARNING: UNKNOWN PLATFORM
test name: control_p8
cases to compile: dbg
dcp'] cases to compile: std
compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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'] compiling std with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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'] compiling dbg with compile option -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,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
dbg'] done compiling dbg
cases to run: dbg_base
Running test for dbg_base
    THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=36204
+ 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=dbg
+ COMPILER=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 'COMPILER: 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
++ export WLCLK=60
++ WLCLK=60
+ 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_cpl_thrds=2
++ INPES_cpl_thrds=3
++ JNPES_cpl_thrds=4
++ WPG_cpl_thrds=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 = wccoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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_cpld_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-model/tests/logs/OpnReqTests_cpld_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
++ export WLCLK=60
++ WLCLK=60
+ 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.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.MOM.res.nc
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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/iced.2021-03-23-21600.nc
RESTART/ufs.cpld.cpl.r.2021-03-

```



```
++ 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_MYNMEDMF=.false.
++ DO_MYNMEDMF=.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","dust
3:0.6","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","dust
```

```
3:0.6", "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_MYNSFCCLAY=.false.
++ DO_MYNSFCCLAY=.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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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.rg.grb'\"'
++ FNSMCC_control='\"'global_soilmgldas.statsgo.t1534.3072.1536.rg.grb'\"'
++ export 'FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.grb'\"'
++ FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.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 NFGIDS=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_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 pio_rearranger=box
++ pio_rearranger=box
++ export ocean_albedo_limit=0.06
++ ocean_albedo_limit=0.06
++ export use_mean_albedos=.false.
++ use_mean_albedos=.false.
++ 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=FW3_GFS_v17_coupled_p8
++ CCPP_SUITE=FW3_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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmglas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmglas.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
+++ expr 24 '*' 3600 / 720
++ export DIAG_FREQ=120
++ DIAG_FREQ=120
++ 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_noaero_p8_gnu_dbg_base
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_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, 1696384254,'
+ 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\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_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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_h2oprldos.f77 /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prldos.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/ZMS-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_sno clim.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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
```

```
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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_ctr1.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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\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
dbg'] done compiling dbg
cases to run: dbg_base
Running test for dbg_base
  THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=18786
+ 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
++ export WLCLK=60
++ WLCLK=60
```

```
+ 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 = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ export WLCLK=60
++ WLCLK=60
+ 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          atmfm000.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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
```

```
++ 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 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
++ 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_MYNNEEDMF=.false.
++ DO_MYNNEEDMF=.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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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.rg.grb'\"'
++ FNSMCC_control='\"'global_soilmgldas.statsgo.t1534.3072.1536.rg.grb'\"'
++ export 'FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.grb'\"'
++ FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.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 NFRIDS=0  
++ NFRIDS=0  
++ export NMGRIDS=1  
++ NMGRIDS=1  
++ export 'WV3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no'' ''no'' ''no'' ''no'' ''no'' ''no''  
''no'' 1 1 0.00 1.00 F'  
++ WV3GRIDLINE=''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 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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\"'C96.soil_color.tileX.nc'\"'
++ FNSOCC='\"'C96.soil_color.tileX.nc'\"'
++ export 'FNSMCC='\"'global_soilmglidas.statsgo.t1534.3072.1536.grb'\"'
++ FNSMCC='\"'global_soilmglidas.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'\"'
```

```

++ FNVMMC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVMMC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ export 'FNVMXC='\'\'C96.vegetation_greenness.tileX.nc\'\'\'
++ 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, 1696384254,'
+ 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\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_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcos2 =~ linux ]]
+ 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\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\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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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 -x ]
++ inputdir=V3_input_data
++ echo inputdir=V3_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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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\al ]]
++ 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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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 -a ']'
++ '[' .false. = .true. -a ']'
++ '[' 8 = 8 -a ']'
++ 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. -a ']'
+ [[ .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']
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

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=31335
+ 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_cpld_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-model/tests/logs/OpnReqTests_cpld_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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
```



```

++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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_cpld_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-model/tests/logs/OpnReqTests_cpld_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
++ 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_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.MOM.res.nc
23-21600.nc'
++ LIST_FILES='sfcf021.tile1.nc
sfcf021.tile5.nc
atmf021.tile3.nc
sfcf024.tile1.nc
sfcf024.tile5.nc
atmf024.tile3.nc
RESTART/20210323.060000.coupler.res
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.MOM.res.nc
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

RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/iced.2021-03-23-21600.nc
RESTART/ufs.cp1d.cp1.r.2021-03-
23-21600.nc'
sfcf021.tile2.nc
sfcf021.tile3.nc
sfcf021.tile4.nc
sfcf021.tile5.nc
atmf021.tile1.nc
atmf021.tile4.nc
atmf021.tile5.nc
sfcf024.tile2.nc
sfcf024.tile6.nc
atmf024.tile1.nc
atmf024.tile5.nc
RESTART/20210323.060000.fv_core.res.nc
RESTART/20210323.060000.fv_core.res.tile2.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.nc
RESTART/20210323.060000.sfc_data.tile6.nc
RESTART/iced.2021-03-23-21600.nc
RESTART/ufs.cp1d.cp1.r.2021-03-
23-21600.nc'

```

```
++ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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","dust
3:0.6","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","dust
3:0.6","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_MYNSFCCLAY=.false.
++ DO_MYNSFCCLAY=.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=.true.
++ FRAC_ICE=.true.
```

```
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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.rg.grb'\"'
++ FNSMCC_control='\"'global_soilmgldas.statsgo.t1534.3072.1536.rg.grb'\"'
++ export 'FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.grb'\"'
++ FNMSKH_control='\"'global_slmask.t1534.3072.1536.rg.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 NFRIDS=0
++ NFRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'WV3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\''
'\''no'\'' 1 1 0.00 1.00 F'
++ WV3GRIDLINE='\''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_cp1
++ 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 pio_rearranger=box
++ pio_rearranger=box
++ export ocean_albedo_limit=0.06
++ ocean_albedo_limit=0.06
++ export use_mean_albedos=.false.
++ use_mean_albedos=.false.
++ 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 FHRROT=0
++ FHRROT=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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
+++ expr 24 '*' 3600 / 720
++ export DIAG_FREQ=120
++ DIAG_FREQ=120
++ 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_noaero_p8_gnu_std_base
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_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, 1696384298,'
+ 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\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_std_base
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_std_base
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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 -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_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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.2003-2014.m08.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.aeroclim.2003-2014.m09.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.m10.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.m11.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/freezeH2O.dat freezeH2O.dat
bit'] done compiling bit
cases to run: bit_base
Running test for bit_base
  THRD: 1; INPES: 3; JNPES: 2; TPN: 40
+ echo PID=16079
+ 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 COMPILE_NR=bit
+ COMPILE_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 'COMPILE_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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wccoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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
```



```
++ 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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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 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 NFGIDS=0
++ NFGIDS=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmglas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmglas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMMC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMMC='\''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_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, 1696384298,'
+ 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\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_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 ./modulefiles/

```

```

+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcss2 =~ linux ]]
+ 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 ']'
+ __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/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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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 -o ']'
++ inputdir=V3_input_data
++ echo inputdir=V3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_bit_base
++ '[' .false. = .false. -o ']'
++ 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_ctrl1.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_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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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 ']'
++ '[' .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
rst'] ++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qgV2.dat qr_acr_qgV2.dat
bit'] ++ mpiexec -n 160 ./fv3.exe
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=15660
+ 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
++ export WLCLK=30
++ WLCLK=30
+ 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_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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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
```

```
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
```



```
++ 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","dust
3:0.6","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","dust
3:0.6","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_MYNSFCCLAY=.false.  
++ DO_MYNSFCCLAY=.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=.true.  
++ FRAC_ICE=.true.  
++ 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 'FNSOCC='\''\''
++ FNSOCC='\''\''
++ 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 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 NFGGRIDS=0
++ NFGGRIDS=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 UNIPPOINTS=points
++ UNIPPOINTS=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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, 1696384298,'
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcss2 =~ linux ]]
+ 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_h2oprldos.f77 /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prldos.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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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/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_ctrl1.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_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\b\o\b\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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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.aeroclim.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 -a ]'
++ '[' .false. = .true. -a ]'
++ '[' 8 = 8 -a ]'
++ 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. -a ]'
+ [[ .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'] ++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsV2.dat qr_acr_qsV2.dat
++ '[' .false. = .true. -a ]'
+ [[ .false. == .true. ]]
+ [[ .false. == .true. ]]
+ [[ false = \t\r\u\e ]]
+ [[ true = \t\r\u\e ]]
+ [[ false = \f\l\l\s\l\e ]]
+ atparse
+ local __set_x
+ '[' -o xtrace -a ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace -a ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace -a ]'
+ __set_x='set -x'
+ set +x
+ atparse
+ local __set_x
+ '[' -o xtrace -a ]'
```

```

+ __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
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=15660
+ 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/

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```
++ 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
++ export WLCLK=30
++ WLCLK=30
+ 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_thrds=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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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_MYNMEDMF=.false.
++ DO_MYNMEDMF=.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", "dust
3:0.6", "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", "dust
3:0.6", "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=.true.
++ FRAC_ICE=.true.
++ 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'\"'
```



```
+++ 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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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 'FNVMMC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMMC='\''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, 1696384298,'
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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 -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.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=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_h2oprndlos.f77 /home/builder/data/NEMSfv3gfs/input-data-20221101/FV3_fix/global_o3prndlos.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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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 -o ']'
++ inputdir=FU3_input_data
++ echo inputdir=FU3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_std_base
++ '[' .false. = .false. -o ']'
++ 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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m06.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m07.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m08.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m09.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m10.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m11.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m12.nc
aero clim.m12.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/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
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=15700
+ 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
++ export WLCLK=15
++ WLCLK=15
+ 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_thrds=2
++ INPES_cpl_thrds=3
++ JNPES_cpl_thrds=4
++ WPG_cpl_thrds=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 = wccoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ export WLCLK=15
++ WLCLK=15
+ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 DECF1=10
++ DECF1=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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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.grb'\"'
++ FNALBC='\"'global_snowfree_albedo.bosu.t126.384.190.grb'\"'
++ export 'FNVETC='\"'global_vegtype.igbp.t126.384.190.grb'\"'
++ FNVETC='\"'global_vegtype.igbp.t126.384.190.grb'\"'
++ export 'FNSOTC='\"'global_soiltype.statsgo.t126.384.190.grb'\"'
++ FNSOTC='\"'global_soiltype.statsgo.t126.384.190.grb'\"'
++ export 'FNSOCC='\"'\"'\"'
++ FNSOCC='\"'\"'\"'
++ 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.grb'\"'
++ FNABSC='\"'global_mxsnoalb.uariz.t126.384.190.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 NFRIDS=0
++ NFRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'W3GRIDLINE=''glo_1deg'' ''no'' ''no'' ''CPL:native'' ''no'' ''no'' ''no'' ''no'' ''no'' ''no''
''no'' 1 1 0.00 1.00 F'
++ W3GRIDLINE=''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 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, 1696384298,'
+ 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\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/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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
+ '[' '!' -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\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\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 ']'
+ __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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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.aeroclim.2003-2014.m01.nc
aeroclim.m01.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m02.nc
aeroclim.m02.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m03.nc
aeroclim.m03.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m04.nc
aeroclim.m04.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m05.nc
aeroclim.m05.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m06.nc
aeroclim.m06.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m07.nc
aeroclim.m07.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m08.nc
aeroclim.m08.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m09.nc
aeroclim.m09.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m10.nc
aeroclim.m10.nc
++ 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_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
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=15660
+ 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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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.tile2.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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.
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc

```

```
++ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 DECF=10
++ DECF=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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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 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 WW30UTDTHR=1
++ WW30UTDTHR=1
+++ printf %02d 3600
++ export DTFLD=3600
++ DTFLD=3600
+++ printf %02d 3600
++ export DTPNT=3600
```



```
++ 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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\'\'C96.soil_color.tileX.nc\'\'\'
++ FNSOCC='\'\'C96.soil_color.tileX.nc\'\'\'
++ export 'FNSMCC='\'\'global_soilmglidas.statsgo.t1534.3072.1536.grb\'\'\'
++ FNSMCC='\'\'global_soilmglidas.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, 1696384298,'
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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_h2oprndlos.f77 /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/global_o3prndlos.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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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/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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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.aeroclim.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.aeroclim.2003-2014.m02.nc
aeroclim.m02.nc
++ for n in 01 02 03 04 05 06 07 08 09 10 11 12
```

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++ 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.v1_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFV3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/aer_data/LUTS/optics_SS.v1_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 -a .false. = .true. -a ']'
++ '[' 8 = 8 -a .false. = .true. -a ']'
++ 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. -a ']'
+ [[ .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: 3; JNPES: 2; TPN: 40
+ echo PID=15660
+ 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  
++ export WLCLK=30  
++ WLCLK=30  
+ 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 = wcos2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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_cp1_thr=4
++ WPG_cp1_thr=6
++ OCN_tasks_cp1_thr=20
++ ICE_tasks_cp1_thr=10
++ WAV_tasks_cp1_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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.tile2.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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.tile2.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 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 DECF=10
++ DECF=10
++ export NSSL_CCCN=0.6e9
++ NSSL_CCCN=0.6e9
++ export NSSL_ALPHA=0.0
++ NSSL_ALPHA=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_MYNMEDMF=.false.
++ DO_MYNMEDMF=.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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ export 'FNSOCC='\'\''
++ FNSOCC='\'\''
++ 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.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.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 NFGIDS=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.tileX.nc'\''
++ export 'FNSMCC='\''global_soilmglas.statsgo.t1534.3072.1536.grb'\''
++ FNSMCC='\''global_soilmglas.statsgo.t1534.3072.1536.grb'\''
++ export 'FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ FNMSKH='\''global_slmask.t1534.3072.1536.grb'\''
++ export 'FNVMMC='\''C96.vegetation_greenness.tileX.nc'\''
++ FNVMMC='\''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, 1696384298,'
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcss2 =~ linux ]]
+ 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

```



```
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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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/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_ctrl1.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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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_aerochim/MERRA2/merra2.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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.aerclim.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 -a .false. = .true. -a ']'
++ '[' 8 = 8 -a .false. = .true. -a ']'
++ 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. -a ']'
+ [[ .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=15700
+ 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
++ export WLCLK=15
++ WLCLK=15
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ export WLCLK=15
++ WLCLK=15
+ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 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_MYNNEEDMF=.false.
++ DO_MYNNEEDMF=.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","dust
3:0.6","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","dust
```

```
3:0.6", "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_MYNSFCCLAY=.false.
++ DO_MYNSFCCLAY=.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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\'\''
++ FNSOCC='\'\''
++ 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.rg.grb\''
++ FNSMCC_control='\global_soilmgldas.statsgo.t1534.3072.1536.rg.grb\''
++ export 'FNMSKH_control='\global_slmask.t1534.3072.1536.rg.grb\''
++ FNMSKH_control='\global_slmask.t1534.3072.1536.rg.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 NFGIDS=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 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, 1696384298,'
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_std_base
+ '[' '!' -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 ']
+ __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_h2oprndlos.f77 /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prndlos.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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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.aerclim.2003-2014.m01.nc aeroclim.m01.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m02.nc aeroclim.m02.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m03.nc aeroclim.m03.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m04.nc aeroclim.m04.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m05.nc aeroclim.m05.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m06.nc aeroclim.m06.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m07.nc aeroclim.m07.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m08.nc aeroclim.m08.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/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.m11.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\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']
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']
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     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     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     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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

be uniform with a remainder of 12

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 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 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 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 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

dcp']

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

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"

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

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

```
thr'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\n\n\n ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696385442, 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=16033
+ 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 COMPILER=std
+ COMPILER=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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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'\ ' '
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc
```

```
++ 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 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 DECF=10
++ DECF=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_MYNNEEDMF=.false.
++ DO_MYNNEEDMF=.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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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 NFGIDS=0
++ NFGIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
```

```
++ export 'WV3GRIDLINE='\''glo_1deg'\'' '\''no'\'' '\''no'\'' '\''CPL:native'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\'' '\''no'\''
'\''no'\'' 1 1 0.00 1.00 F'
++ WV3GRIDLINE='\''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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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, 1696385442,'
+ 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\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_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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
+ 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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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 -o xtrace ']'
++ inputdir=FV3_input_data
++ echo inputdir=FV3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_thr
++ '[' .false. = .false. -o xtrace ']'
++ 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-

```



```
+ 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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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          atmfm000.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          atmfm000.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.tile2.nc
RESTART/20210323.060000.fv_core.res.tile4.nc
RESTART/20210323.060000.fv_core.res.tile6.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc
RESTART/20210323.060000.fv_tracer.res.tile2.nc
RESTART/20210323.060000.fv_tracer.res.tile4.nc
RESTART/20210323.060000.fv_tracer.res.tile6.nc
RESTART/20210323.060000.phy_data.tile2.nc
RESTART/20210323.060000.phy_data.tile4.nc
RESTART/20210323.060000.phy_data.tile6.nc
RESTART/20210323.060000.sfc_data.tile2.nc
RESTART/20210323.060000.sfc_data.tile4.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ export WRITE_DOPOST=.false.
++ WRITE_DOPOST=.false.
++ export NUM_FILES=2
++ NUM_FILES=2
++ export 'FILENAME_BASE='\''atm'\'' '\''sfc'\''

```

```

RESTART/20210323.060000.fv_core.res.tile1.nc
RESTART/20210323.060000.fv_core.res.tile3.nc
RESTART/20210323.060000.fv_core.res.tile5.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc
RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc
RESTART/20210323.060000.fv_tracer.res.tile1.nc
RESTART/20210323.060000.fv_tracer.res.tile3.nc
RESTART/20210323.060000.fv_tracer.res.tile5.nc
RESTART/20210323.060000.phy_data.tile1.nc
RESTART/20210323.060000.phy_data.tile3.nc
RESTART/20210323.060000.phy_data.tile5.nc
RESTART/20210323.060000.sfc_data.tile1.nc
RESTART/20210323.060000.sfc_data.tile3.nc
RESTART/20210323.060000.sfc_data.tile5.nc

```

```
++ 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 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
++ 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_MYNNEEDMF=.false.
++ DO_MYNNEEDMF=.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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 NPZ=65
++ NPZ=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.grb''''
++ FNALBC=''global_snowfree_albedo.bosu.t126.384.190.grb''''
++ export 'FNVETC=''global_vegtype.igbp.t126.384.190.grb''''
++ FNVETC=''global_vegtype.igbp.t126.384.190.grb''''
++ export 'FNSOTC=''global_soiltype.statsgo.t126.384.190.grb''''
++ FNSOTC=''global_soiltype.statsgo.t126.384.190.grb''''
++ export 'FNSOCC=''''''''
++ FNSOCC=''''''''
++ 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.grb''''
++ FNABSC=''global_mxsnoalb.uariz.t126.384.190.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 FHMAY=24
++ FHMAY=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 NFRIDS=0  
++ NFRIDS=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''  
''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 UNIPPOINTS=points  
++ UNIPPOINTS=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\ 'C96.soil_color.tileX.nc'\''
++ FNSOCC='\ 'C96.soil_color.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 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, 1696385455,'
+ 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\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_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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_h2oprndlos.f77 /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prndlos.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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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 -o xtrace ']'
++ inputdir=FU3_input_data
++ echo inputdir=FU3_input_data,NPX=97
++ OPNREQ_TEST=false
++ SUFFIX=_rst
++ '[' .false. = .false. -o xtrace ']'
++ 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/  
thr'] ++ 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.m02.nc  
aeroclim.m02.nc  
rst'] ++ '[' .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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
```

```

20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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 .
thr'] ++ 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.m03.nc
aeroclim.m03.nc
rst'] ++ 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.aeroclim.2003-2014.m01.nc
aeroclim.m01.nc
mpi'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696385462, 4'
+ [[ false = true ]]
+ elapsed=1164
+ echo 'Elapsed time 1164 seconds. Test control_p8_gnu'
+ '[' 0 -eq 0 ']'
Running test for mpi
    THRD: 1; INPES: 2; JNPES: 2; TPN: 40
+ echo PID=16033

```

```
+ 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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoast2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
```

```

+ [[ -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
++ 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.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 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","dust
3:0.6","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","dust
3:0.6","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_MYNSFCCLAY=.false.
++ DO_MYNSFCCLAY=.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=.true.
++ FRAC_ICE=.true.
++ 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.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ export 'FNSOCC='\''\''
++ FNSOCC='\''\''
++ 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.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.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 NFRIDS=0
++ NFRIDS=0
++ export NMGRIDS=1
++ NMGRIDS=1
++ export 'W3GRIDLINE='\`glo_1deg'\` '\`no'\` '\`no'\` '\`CPL:native'\` '\`no'\` '\`no'\` '\`no'\` '\`no'\` '\`no'\` '\`no'\`
'\`no'\` 1 1 0.00 1.00 F'
++ W3GRIDLINE='\`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 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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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 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, 1696385462,'
+ 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 -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_mpi
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
+ 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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_mpi
+ '[' '!' -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/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_globl.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/fix_co2_proj/co2monthlycyc.txt .
+ [[ .true. != .true. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .

```



```
+ [[ 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=_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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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.aeroclim.2003-2014.m01.nc
aeroclim.m01.nc
thr'] ++ 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.m04.nc
aeroclim.m04.nc
rst'] ++ 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.m02.nc
aeroclim.m02.nc
mpi'] ++ 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.m02.nc
aeroclim.m02.nc
rst'] ++ 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.m03.nc

```



```
++ 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
++ export WLCLK=30
++ WLCLK=30
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ linux = hera ]]
++ [[ linux = linux ]]
++ TPN=40
++ INPES_dflt=3
++ JNPES_dflt=8
++ INPES_thrd=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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ 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.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.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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.grb'\''
++ FNALBC=''\global_snowfree_albedo.bosu.t126.384.190.grb'\''
++ export 'FNVETC=''\global_vegtype.igbp.t126.384.190.grb'\''
++ FNVETC=''\global_vegtype.igbp.t126.384.190.grb'\''
++ export 'FNSOTC=''\global_soiltype.statsgo.t126.384.190.grb'\''
++ FNSOTC=''\global_soiltype.statsgo.t126.384.190.grb'\''
++ export 'FNSOCC=''\'''\''
++ FNSOCC=''\'''\''
++ 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.grb'\''
++ FNABSC=''\global_mxsnoalb.uariz.t126.384.190.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.
```



```
++ 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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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 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, 1696385479,'
+ 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\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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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 -x ]
+ __set_x='set -x'
+ set +x
+ compute_petbounds_and_tasks
+ [[ false = \f\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_h2oprds.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. ]]
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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=_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_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix_tiled/C96/C96.soil_color.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\al ]]
```

```
++ 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.aerclim.2003-2014.m01.nc
aerochim.m01.nc
rst'] ++ 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.aerclim.2003-2014.m04.nc
aerochim.m04.nc
thr'] ++ 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.aerclim.2003-2014.m05.nc
aerochim.m05.nc
dcp'] ++ 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.aerclim.2003-2014.m02.nc
aerochim.m02.nc
mpi'] ++ 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.aerclim.2003-2014.m04.nc
aerochim.m04.nc
dcp'] ++ 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.aerclim.2003-2014.m03.nc
aerochim.m03.nc
thr'] ++ 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.aerclim.2003-2014.m06.nc
aerochim.m06.nc
rst'] ++ 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.aerclim.2003-2014.m05.nc
aerochim.m05.nc
dcp'] ++ 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.aerclim.2003-2014.m04.nc
aerochim.m04.nc
mpi'] ++ 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.aerclim.2003-2014.m05.nc
aerochim.m05.nc
thr'] ++ 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.aerclim.2003-2014.m07.nc
aerochim.m07.nc
rst'] ++ 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.aerclim.2003-2014.m06.nc
aerochim.m06.nc
thr'] ++ 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.aerclim.2003-2014.m08.nc
aerochim.m08.nc
rst'] ++ 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.aerclim.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.aerclim.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.aerclim.2003-2014.m09.nc
aerochim.m09.nc
mpi'] ++ 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.aerclim.2003-2014.m06.nc
aerochim.m06.nc
dcp'] ++ 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.aerclim.2003-2014.m05.nc
aerochim.m05.nc
rst'] ++ 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.aerclim.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.aerclim.2003-2014.m11.nc
aerochim.m11.nc
```

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++ 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 -n ]'
++ '[' .false. = .true. -n ]'
++ '[' 8 = 8 -n ]'
++ 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. -n ]'
+ [[ .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 = \s\l\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'] ++ 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 -n ]'
++ '[' .false. = .true. -n ]'
++ '[' 8 = 8 -n ]'
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qr_acr_qsv2.dat .

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++ 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 .
mpi' ++ 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.m07.nc
aeroclim.m07.nc
dcp' ++ 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.m06.nc
aeroclim.m06.nc
thr' ++ 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
dcp' ++ 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.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.aeroclim.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.aeroclim.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.aeroclim.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 ']'
++ '[' .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 .
mpi' ] ++ 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.m08.nc
aeroclim.m08.nc
dcp' ] ++ 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
mpi' ] ++ 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.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.aeroclim.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 ']'
++ '[' .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
bit'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696385776, 4'
+ [[ false = true ]]
+ elapsed=1478
+ echo 'Elapsed time 1478 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

```



```

+ elapsed=2173
+ echo 'Elapsed time 2173 seconds. Test regional_control_gnu'
+ '[' 0 -eq 0 ']'
Running test for thr
  THRD: 2; INPES: 5; JNPES: 11; TPN: 20
+ echo PID=15917
+ 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 COMPILER=std
+ COMPILER=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 'COMPILER: 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/BMIC-20220207
++ INPUTDATA_ROOT_BMIC=/home/builder/data/NEMSFV3GFS/BMIC-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
++ export WLCLK=15
++ WLCLK=15
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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_cp1_thr=12
++ WLCLK_dflt=30
++ export WLCLK=30
++ WLCLK=30
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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
++ export WLCLK=15
++ WLCLK=15
+ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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 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
++ 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_MYNNEEDMF=.false.
++ DO_MYNNEEDMF=.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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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 'FNSOCC='\"'\"'  
++ FNSOCC='\"'\"'  
++ 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 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 NFRIDS=0
++ NFRIDS=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'\''
'\''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 HYBDMF=.false.
++ HYBDMF=.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, 1696386471,'
+ 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\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/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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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\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\l\s\l\e ]]
+ [[ 0 -eq 0 ]]
+ ATM_compute_tasks=110
+ [[ .true. = \.t\r\u\l\ ]]
+ 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_h2oprndlos.f77 /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/global_o3prndlos.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/qv_acr_qgV2.dat /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/qv_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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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.aeroclim.2003-2014.m01.nc aeroclim.m01.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m02.nc aeroclim.m02.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m03.nc aeroclim.m03.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m04.nc aeroclim.m04.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m05.nc aeroclim.m05.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m06.nc aeroclim.m06.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m07.nc aeroclim.m07.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m08.nc aeroclim.m08.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m09.nc aeroclim.m09.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aeroclim/MERRA2/merra2.aeroclim.2003-2014.m10.nc aeroclim.m10.nc
++ 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/MERRA2/merra2.aeroclim.2003-2014.m11.nc aeroclim.m11.nc
++ 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_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
dcp'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696386487, 3'
+ [[ false = true ]]
+ elapsed=2189
+ echo 'Elapsed time 2189 seconds. Test regional_control_gnu'
+ '[' 0 -eq 0 ']'
Running test for dcp
    THRD: 1; INPES: 5; JNPES: 12; TPN: 40
+ echo PID=15917
+ 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=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_7'
+ 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_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_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
++ export WLCLK=15
++ WLCLK=15
+ 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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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_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
++ export WLCLK=15
++ WLCLK=15
+ 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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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.
```



```
++ 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 HWRP_SAMFSHAL=.false.
++ HWRP_SAMFSHAL=.false.
++ export IMFDEEPCNV=2
++ IMFDEEPCNV=2
++ export HWRP_SAMFDEEP=.false.
++ HWRP_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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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.grb'\"'
++ FNALBC='\"'global_snowfree_albedo.bosu.t126.384.190.grb'\"'
++ export 'FNVETC='\"'global_vegtype.igbp.t126.384.190.grb'\"'
++ FNVETC='\"'global_vegtype.igbp.t126.384.190.grb'\"'
++ export 'FNSOTC='\"'global_soiltype.statsgo.t126.384.190.grb'\"'
++ FNSOTC='\"'global_soiltype.statsgo.t126.384.190.grb'\"'
++ export 'FNSOCC='\"'\"'
++ FNSOCC='\"'\"'
++ 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.grb'\"'
++ FNABSC='\"'global_mxsnoalb.uariz.t126.384.190.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.
```



```
++ 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_7/regional_control_gnu_dcp
+ RUNDIR=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/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_7
+ export JBNME=opnReqTest_7_dcp
+ JBNME=opnReqTest_7_dcp
++ date +%s
+ echo -n 'regional_control_gnu, 1696386487,'
+ 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
+ echo 'Test dcp regional_control_gnu Compare FV3 regional 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/regional_control_gnu_dcp
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_dcp
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ SRCD=/home/builder/ufs-weather-model
+ RUND=/home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/regional_control_gnu_dcp
+ '[' '!' -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 -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_h2oprndlos.f77 /home/builder/data/NEMSFv3gfs/input-data-
20221101/FV3_fix/global_o3prndlos.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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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.aerclim.2003-2014.m01.nc
aerochim.m01.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m02.nc
aerochim.m02.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m03.nc
aerochim.m03.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m04.nc
aerochim.m04.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m05.nc
aerochim.m05.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m06.nc
aerochim.m06.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m07.nc
aerochim.m07.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m08.nc
aerochim.m08.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m09.nc
aerochim.m09.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m10.nc
aerochim.m10.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.2003-2014.m12.nc
aerochim.m12.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aerochim/MERRA2/merra2.aerclim.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_aerochim/aer_data/LUTS/optics_SU.v1_3.dat optics_SU.dat
++ '[' .false. = .true. ']'
++ '[' .false. = .true. ']'
++ [[ lam = \l\@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
```

thr']

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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

dcp']

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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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


```
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           = 1101.833476
The maximum resident set size (KB)     = 1249404
```

```
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 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           = 1131.450963
The maximum resident set size (KB)     = 1248712

```

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           = 1099.913949
The maximum resident set size (KB)     = 1249452

```

Test thr control_p8_gnu PASS

```

rst')] ++ docker image ls
++ grep -E -m1 ci-test-weather
++ awk '{ print $3 }'
+ docker rmi -f 77db48eaa92c
Untagged: ci-test-weather:latest
Deleted: sha256:77db48eaa92c4629bfcfb870689999ec6e4d4164ccdc16d49c3a22f9a03127d6
++ docker image ls
++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 72a57b3590b9
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb
Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
thr')] OPERATION REQUIREMENT TEST WAS SUCCESSFUL
Elapsed time: 00h:43m:56s. Have a nice day!
opnReqTest finished
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] }
[Pipeline] // stage
Post stage
[Pipeline] sh
thr')] ++ docker image ls
++ grep -E -m1 ci-test-weather
++ awk '{ print $3 }'
+ docker rmi -f 8f786b0b2f53

```



```

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           = 1114.922099
The maximum resident set size (KB)     = 1248896

```

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

```



```
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 = 1132.238669

The maximum resident set size (KB) = 1253616

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           = 1151.650956
The maximum resident set size (KB)     = 1251640

```

Test std_base control_p8_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 00h:45m:02s. 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 a37015b7a55a

Untagged: ci-test-weather:latest

Deleted: sha256:a37015b7a55a0c089228af813b48d64572d335e73589502e5171663ebd3f44b0

++ docker image ls

++ grep -E -m1 noaaepic

++ awk '{ print \$3 }'

+ docker rmi -f 72a57b3590b9

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb

Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651

[Pipeline] }

[Pipeline] // withEnv

[Pipeline] }

[Pipeline] // node

[Pipeline] }

[Pipeline] // withEnv

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

rst'] Memuse(MB) at Memory HiWaterMark= 5.882E+02 8.918E+02 6.458E+01 6.116E+02

+ [[false = false]]

+ check_results

+ '[' -o xtrace ']'

+ set_x='set -x'

+ set +x

+ [[none != \n\n\n\n\n]]

+ [[false = true]]

```

++ date +%s
+ echo ' 1696387192, 5'
+ [[ false = true ]]
+ elapsed=2894
+ echo 'Elapsed time 2894 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=31911
+ 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
++ export WLCLK=30
++ WLCLK=30
+ 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_cp1_thrd=10
++ ICE_thrds_cp1_thrd=1
++ WAV_tasks_cp1_thrd=12
++ WAV_thrds_cp1_thrd=2
++ THRD_cp1_dcmp=1
++ INPES_cp1_dcmp=4
++ JNPES_cp1_dcmp=6
++ WPG_cp1_dcmp=6
++ OCN_tasks_cp1_dcmp=20
++ ICE_tasks_cp1_dcmp=10
++ WAV_tasks_cp1_dcmp=20
++ THRD_cp1_mpi=1
++ INPES_cp1_mpi=4
++ JNPES_cp1_mpi=8
++ WPG_cp1_mpi=6
++ OCN_tasks_cp1_mpi=34
++ ICE_tasks_cp1_mpi=20
++ WAV_tasks_cp1_mpi=28
++ THRD_cp1_bmrk=2
++ INPES_cp1_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 = wcoss2 ]]
++ [[ linux = acorn ]]
++ [[ linux = orion ]]
++ [[ linux = hercules ]]
++ [[ 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
++ export CMP_DATAONLY=false
++ CMP_DATAONLY=false
+ [[ -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_cpld_control_nowave_noaero_p8_linux.log
++ REGRESSIONTEST_LOG=/home/builder/ufs-weather-model/tests/logs/OpnReqTests_cpld_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
++ 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.cp1d.cp1.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/iced.2021-03-23-21600.nc          RESTART/ufs.cp1d.cp1.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 HISTORY_FILE_ON_NATIVE_GRID=.false.
++ HISTORY_FILE_ON_NATIVE_GRID=.false.
++ 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.
```



```
++ 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","dust
3:0.6","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","dust
3:0.6","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=.true.
++ FRAC_ICE=.true.
++ 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.grb\''
++ FNALBC='\global_snowfree_albedo.bosu.t126.384.190.grb\''
++ export 'FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ FNVETC='\global_vegtype.igbp.t126.384.190.grb\''
++ export 'FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ FNSOTC='\global_soiltype.statsgo.t126.384.190.grb\''
++ export 'FNSOCC='\''\''
++ FNSOCC='\''\''
++ 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.grb\''
++ FNABSC='\global_mxsnoalb.uariz.t126.384.190.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 NFGIDS=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_cp1  
++ 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 pio_rearranger=box
++ pio_rearranger=box
++ export ocean_albedo_limit=0.06
++ ocean_albedo_limit=0.06
++ export use_mean_albedos=.false.
++ use_mean_albedos=.false.
++ 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=cp1d_control.nml.IN
++ INPUT_NML=cp1d_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 FHR0T=0
++ FHR0T=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 IOPT_DIAG=2
++ IOPT_DIAG=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 'FNSOCC='\''C96.soil_color.tileX.nc'\''
++ FNSOCC='\''C96.soil_color.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.
++ 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
+++ expr 24 '*' 3600 / 720
++ export DIAG_FREQ=120
++ DIAG_FREQ=120
++ 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, 1696387192,'
+ 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_gnu_rst
+ mkdir -p /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_rst
+ cd /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_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 ./modulefiles/.
+ cp /home/builder/ufs-weather-model/tests/module-setup.sh module-setup.sh
+ [[ s4 hera orion hercules gaea jet cheyenne acorn wcross2 =~ linux ]]
+ 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 ']'
+ 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_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/co2_proj/co2historicaldata_2009.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2011.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2012.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2013.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2014.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2015.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2016.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2017.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2018.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2019.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2020.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_2021.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix/co2_proj/co2historicaldata_glob.txt /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_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.depercent.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 .
+ cp /home/builder/ufs-weather-model/tests/parm/noahmptable.tbl .
+ [[ 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
++ cp /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
++ cp /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
++ cp /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
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile1.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile2.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile3.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile4.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile5.nc /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_fix_tiled/C96/C96.soil_color.tile6.nc
++ cp /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
++ cp /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
++ cp /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
++ cp /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-

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Dashboard ufs-weather-model ort-docker-pipeline Pull Requests (11) PR-1894 #1

```

++ 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

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++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/MERRA2/merra2.aer clim.2003-2014.m06.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m07.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m08.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m09.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m10.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m11.nc
aero clim.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_aero clim/MERRA2/merra2.aer clim.2003-2014.m12.nc
aero clim.m12.nc
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_BC.v1_3.dat optics_BC.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_OC.v1_3.dat optics_OC.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_DU.v15_3.dat optics_DU.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/aer_data/LUTS/optics_SS.v3_3.dat optics_SS.dat
++ cp /home/builder/data/NEMSFv3gfs/input-data-20221101/FV3_input_data_INCCN_aero clim/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/freezeH2O.dat freezeH2O.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'] + [[ false = false ]]
+ check_results
+ [' -o xtrace ']
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696387663, 4'
+ [[ false = true ]]
+ elapsed=3409
+ echo 'Elapsed time 3409 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_dbg_base_gnu
working dir = /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/control_p8_gnu_dbg_base
Checking test dbg_base control_p8_gnu results ....
Moving baseline dbg_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 = 3395.198120

The maximum resident set size (KB) = 1265960

Test dbg_base control_p8_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:00m:30s. 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 7b7a294e1b3d

Untagged: ci-test-weather:latest

Deleted: sha256:7b7a294e1b3d46720cb576bb5f78b7a57154d9dc9b46bac6a9ce9bb30b3fdcfce

++ docker image ls

++ grep -E -m1 noaaepic

++ awk '{ print \$3 }'

+ docker rmi -f 72a57b3590b9

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb

Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651

[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_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
```

```
thr'] + [[ false = false ]]
+ check_results
+ '[' -o xtrace ']'
+ set_x='set -x'
+ set +x
+ [[ none != \n\o\n\e ]]
+ [[ false = true ]]
++ date +%s
+ echo ' 1696388657, 3'
+ [[ false = true ]]
+ elapsed=2186
+ echo 'Elapsed time 2186 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           = 2164.105014
The maximum resident set size (KB)     = 1037208

```

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           = 2176.381364
The maximum resident set size (KB)     = 1036128

```

Test thr regional_control_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:17m:11s. 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 1472b77fd188
Untagged: ci-test-weather:latest
Deleted: sha256:1472b77fd18870ef57ccdb3ef23aa7a143f3370c5349b660e6dff55e240308c9
++ docker image ls
++ grep -E -m1 noaaepic
++ awk '{ print $3 }'
+ docker rmi -f 72a57b3590b9
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb
Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651
[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 ' 1696388708, 3'
+ [[ false = true ]]
+ elapsed=2221
+ echo 'Elapsed time 2221 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_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           = 2212.335124
The maximum resident set size (KB)     = 1041320

```

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_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           = 2179.553826
The maximum resident set size (KB)     = 1033000

```

Test std_base regional_control_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:18m:00s. 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 3ac23e3268a7
```

Untagged: ci-test-weather:latest

Deleted: sha256:3ac23e3268a778cdf9468378deda116d106d748fca194fc8157a9f081ccc17b1

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 72a57b3590b9
```

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb

Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651

[Pipeline] }


```

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           = 2844.306523
The maximum resident set size (KB)     = 1379152

```

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           = 2878.620420
The maximum resident set size (KB)     = 1350332

```

Test std_base cpld_control_nowave_noaero_p8_gnu PASS

OPERATION REQUIREMENT TEST WAS SUCCESSFUL

Elapsed time: 01h:44m:05s. 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 9ba5ae7f6477

Untagged: ci-test-weather:latest

Deleted: sha256:9ba5ae7f647741dc50c326e69153c9471fbc4b7400fb5726a8eab3cb657c7918

++ docker image ls

++ grep -E -m1 noaaepic

++ awk '{ print \$3 }'

+ docker rmi -f 72a57b3590b9

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0

Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb

Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651

[Pipeline] }

[Pipeline] // withEnv

[Pipeline] }

[Pipeline] // node

[Pipeline] }

[Pipeline] // withEnv

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

dbg'] Memuse(MB) at Memory HiWaterMark= 6.127E+02 9.468E+02 7.137E+01 6.362E+02

+ [[false = false]]

+ check_results

+ '[' -o xtrace ']'

+ set_x='set -x'

+ set +x

+ [[none != \n\n\n\n]]

```

+ [[ false = true ]]
++ date +%s
+ echo ' 1696390512, 5'
+ [[ false = true ]]
+ elapsed=6258
+ echo 'Elapsed time 6258 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_base_gnu
working dir = /home/builder/stmp2/builder/FV3_OPNREQ_TEST/opnReqTest_7/cpld_control_nowave_noaero_p8_gnu_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           = 6242.707518
The maximum resident set size (KB)     = 1391844
```

```
Test dbg_base cpld_control_nowave_noaero_p8_gnu PASS
```

```
OPERATION REQUIREMENT TEST WAS SUCCESSFUL
```

```
Elapsed time: 01h:48m:03s. 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 826a42702a8e
```

```
Untagged: ci-test-weather:latest
```

```
Deleted: sha256:826a42702a8ee3b0d0c4087227a4e7e8e1b71dcf3f1aaa21764207f324a3875a
```

```
++ docker image ls
```

```
++ grep -E -m1 noaaepic
```

```
++ awk '{ print $3 }'
```

```
+ docker rmi -f 72a57b3590b9
```

```
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack:v2.0
```

```
Untagged: noaaepic/ubuntu20.04-gnu9.3-hpc-stack@sha256:df5ad607eed7ce5c226afa212515e639134697e29f3f7c9d7efa796c34322fb
```

```
Deleted: sha256:72a57b3590b90279c38b1a337ac87478ded85065f480af08b17161dae955b651
```

```
[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
```