

Sat Aug 12 03:21:04 UTC 2023  
Start Regression test

Testing UFSWM Hash: df53e6f99271b891cadb83f0c90afe8056ad48dd

Testing With Submodule Hashes:

```
37cbb7d6840ae7515a9a8f0dfd4d89461b3396d1 ../AQM (v0.2.0-37-g37cbb7d)
2aa6bfbb62ebeeec7da964b8074f6c3c41c7d1eb ../CDEPS-interface/CDEPS
(cdeps0.4.17-38-g2aa6bfbb)
d41c61dd332d5803d31408be1b9e8ef611856049 ../CICE-interface/CICE (CICE6.0.0-
441-gd41c61d)
9923d6d17700daf502d9a016138bf8eb8aad7f09 ../CMEPS-interface/CMEPS
(cmeps_v0.4.1-1402-g9923d6d)
cabd7753ae17f7bfcc6dad56daf10868aa51c3f4 ../CMakeModules (v1.0.0-28-
gcabd775)
f595b972ab0a099a8ef13ddad313ec2c0d8672d4 ../FV3 (heads/develop)
6ea78fd79037b31a1dcdd30d8a315f6558d963e4 ../GOCART (sdr_v2.1.2.6-106-
g6ea78fd)
24437531dcf8580aadaaf6eb9de544ccfc674f9 ../HYCOM-interface/HYCOM (2.3.00-
120-g2443753)
8ec0de7b0c77b816c9e7673219eebca7af7fab80 ../MOM6-interface/MOM6
(dev/master/repository_split_2014.10.10-9799-g8ec0de7b0)
569e354ababbde7a7cd68647533769a5c966468d ../NOAHMP-interface/noahmp (v3.7.1-
303-g569e354)
59c554a12df3a04e0402ce5f17bb32cbbac193b2 ../WW3 (6.07.1-341-g59c554a1)
3bfa4468d85e5b63980c28434f494967f38b10a3 ../stochastic_physics (ufs-v2.0.0-
171-g3bfa446)
Compile atm_debug_dyn32_intel elapsed time 252 seconds. -DAPP=ATM -DDEBUG=ON
-D32BIT=ON -
DCCPP_SUITES=FV3_HRRR,FV3_GFS_v16,FV3_GFS_v16_csawmg,FV3_GFS_v16_ras,FV3_GFS_
v17_p8,FV3_GFS_v15_thompson_mynn_lam3km,FV3_RAP,FV3_RAP_unified_ugwp,FV3_RAP_
cires_ugwp,FV3_RAP_flake,FV3_RAP_clm_lake,FV3_RAP_noah,FV3_RAP_sfcdiff,FV3_RA
P_noah_sfcdiff_cires_ugwp,FV3_RRFS_v1beta -DMPI=ON -DCMAKE_BUILD_TYPE=Debug
Compile atm_dyn32_debug_gnu elapsed time 182 seconds. -DAPP=ATM -D32BIT=ON -
DDEBUG=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Debug
Compile atm_dyn32_intel elapsed time 597 seconds. -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v17_p8,FV3_GFS_v17_p8_rrtm
gp,FV3_GFS_v15_thompson_mynn_lam3km,FV3_WoFS_v0,FV3_GFS_v17_p8_mynn -
D32BIT=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Release
Compile atm_dyn32_phy32_debug_gnu elapsed time 183 seconds. -DAPP=ATM -
D32BIT=ON -DCCPP_32BIT=ON -DDEBUG=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Debug
Compile atm_dyn64_phy32_debug_gnu elapsed time 176 seconds. -DAPP=ATM -
DCCPP_32BIT=ON -DDEBUG=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Debug
Compile atm_dyn64_phy32_gnu elapsed time 285 seconds. -DAPP=ATM -
DCCPP_32BIT=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Release
Compile atm_faster_dyn32_intel elapsed time 538 seconds. -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v17_p8,FV3_GFS_v15_thompson_mynn_lam3km -D32BIT=ON -
DFASTER=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Release
Compile atm_gnu elapsed time 205 seconds. -DAPP=ATM -
DCCPP_SUITES=FV3_GFS_v16,FV3_GFS_v16_flake,FV3_GFS_v16_ras,FV3_GFS_v17_p8 -
DMPI=ON -DCMAKE_BUILD_TYPE=Release
Compile atmaero_intel elapsed time 537 seconds. -DAPP=ATMAERO -
DCCPP_SUITES=FV3_GFS_v17_p8 -D32BIT=ON -DMPI=ON -DCMAKE_BUILD_TYPE=Release
Compile atmaq_debug_intel elapsed time 178 seconds. -DAPP=ATMAQ -
DCCPP_SUITES=FV3_GFS_v15p2 -DDEBUG=ON -D32BIT=ON -DMPI=ON -
DCMAKE_BUILD_TYPE=Debug
```

Compile atmaq\_faster\_intel elapsed time 552 seconds. -DAPP=ATMAQ -  
DCCPP\_SUITES=FV3\_GFS\_v15p2 -DFASTER=ON -D32BIT=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release  
Compile atmaq\_intel elapsed time 518 seconds. -DAPP=ATMAQ -  
DCCPP\_SUITES=FV3\_GFS\_v15p2 -D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile atml\_intel elapsed time 548 seconds. -DAPP=ATML -  
DCCPP\_SUITES=FV3\_GFS\_v16,FV3\_GFS\_v17\_p8,FV3\_GFS\_v15\_thompson\_mynn\_lam3km -  
DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile atmw\_intel elapsed time 559 seconds. -DAPP=ATMW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_p8 -D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile atmwm\_intel elapsed time 580 seconds. -DAPP=ATMWM -  
DCCPP\_SUITES=FV3\_GFS\_v16 -D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile csawmg\_intel elapsed time 533 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_GFS\_v16\_csawmg,FV3\_GFS\_v16\_ras -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release  
Compile datm\_cdeps\_debug\_intel elapsed time 128 seconds. -DAPP=NG-GODAS -  
DDEBUG=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug -DMOM6SOLO=ON  
Compile datm\_cdeps\_faster\_intel elapsed time 187 seconds. -DAPP=NG-GODAS -  
DFASTER=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile datm\_cdeps\_gnu elapsed time 123 seconds. -DAPP=NG-GODAS -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile datm\_cdeps\_intel elapsed time 201 seconds. -DAPP=NG-GODAS -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile datm\_cdeps\_land\_intel elapsed time 54 seconds. -DAPP=LND -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release  
Compile hafsw\_all\_intel elapsed time 575 seconds. -DAPP=HAFS-ALL -  
DCCPP\_SUITES=FV3\_HAFS\_v1\_gfdlmp\_tedmf,FV3\_HAFS\_v1\_gfdlmp\_tedmf\_nonsst -  
D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile hafsw\_debug\_intel elapsed time 222 seconds. -DAPP=HAFSW -  
DMOVING\_NEST=ON -DCCPP\_SUITES=FV3\_HAFS\_v1\_gfdlmp\_tedmf\_nonsst -D32BIT=ON -  
DDEBUG=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug  
Compile hafsw\_faster\_intel elapsed time 583 seconds. -DAPP=HAFSW -  
DMOVING\_NEST=ON -DCCPP\_SUITES=FV3\_HAFS\_v1\_gfdlmp\_tedmf\_nonsst -D32BIT=ON -  
DFASTER=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile hafsw\_intel elapsed time 573 seconds. -DAPP=HAFSW -DMOVING\_NEST=ON -  
DCCPP\_SUITES=FV3\_HAFS\_v1\_gfdlmp\_tedmf,FV3\_HAFS\_v1\_gfdlmp\_tedmf\_nonsst,FV3\_HAF  
S\_v1\_thompson\_tedmf\_gfdlsf -D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile rrf\_dyn32\_phy32\_debug\_intel elapsed time 176 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -D32BIT=ON -DCCPP\_32BIT=ON -DDEBUG=ON -DMPI=ON  
-DCMAKE\_BUILD\_TYPE=Debug  
Compile rrf\_dyn32\_phy32\_faster\_intel elapsed time 658 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -D32BIT=ON -DCCPP\_32BIT=ON -DFASTER=ON -DMPI=ON  
-DCMAKE\_BUILD\_TYPE=Release  
Compile rrf\_dyn32\_phy32\_gnu elapsed time 200 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -D32BIT=ON -DCCPP\_32BIT=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release  
Compile rrf\_dyn32\_phy32\_intel elapsed time 520 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -D32BIT=ON -DCCPP\_32BIT=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release  
Compile rrf\_dyn64\_phy32\_debug\_intel elapsed time 176 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -DCCPP\_32BIT=ON -DDEBUG=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug  
Compile rrf\_dyn64\_phy32\_intel elapsed time 526 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -DCCPP\_32BIT=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release

Compile rrfs\_gnu elapsed time 208 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_RAP\_sfcdiff,FV3\_HRRR,FV3\_RRFS\_v1beta -D32BIT=ON -  
DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile rrfs\_intel elapsed time 547 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_RAP\_sfcdiff,FV3\_HRRR,FV3\_RRFS\_v1beta,FV3\_RRFS\_v1nssl  
-D32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release  
Compile s2s\_aoflux\_intel elapsed time 598 seconds. -DAPP=S2S -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8\_sfcocn -DCMEPS\_AOFLUX=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile s2s\_gnu elapsed time 240 seconds. -DAPP=S2S -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile s2s\_intel elapsed time 577 seconds. -DAPP=S2S -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile s2sw\_debug\_intel elapsed time 238 seconds. -DAPP=S2SW -DDEBUG=ON -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug -  
DMOM6SOLO=ON  
Compile s2sw\_intel elapsed time 633 seconds. -DAPP=S2SW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile s2sw\_pdlib\_debug\_gnu elapsed time 133 seconds. -DAPP=S2SW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DPDLIB=ON -DDEBUG=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug -DMOM6SOLO=ON  
Compile s2sw\_pdlib\_debug\_intel elapsed time 233 seconds. -DAPP=S2SW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DPDLIB=ON -DDEBUG=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug -DMOM6SOLO=ON  
Compile s2sw\_pdlib\_gnu elapsed time 254 seconds. -DAPP=S2SW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DPDLIB=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile s2sw\_pdlib\_intel elapsed time 925 seconds. -DAPP=S2SW -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DPDLIB=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile s2swa\_32bit\_intel elapsed time 673 seconds. -DAPP=S2SWA -D32BIT=ON -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile s2swa\_debug\_gnu elapsed time 144 seconds. -DAPP=S2SWA -DDEBUG=ON -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug -  
DMOM6SOLO=ON  
Compile s2swa\_debug\_intel elapsed time 249 seconds. -DAPP=S2SWA -DDEBUG=ON -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug -  
DMOM6SOLO=ON  
Compile s2swa\_faster\_intel elapsed time 970 seconds. -DAPP=S2SWA -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DFASTER=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON  
Compile s2swa\_gnu elapsed time 267 seconds. -DAPP=S2SWA -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile s2swa\_intel elapsed time 687 seconds. -DAPP=S2SWA -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8 -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON  
Compile wam\_debug\_gnu elapsed time 106 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_GFS\_v16\_fv3wam -D32BIT=ON -DMULTI\_GASES=ON -DDEBUG=ON -  
DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug  
Compile wam\_debug\_intel elapsed time 209 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_GFS\_v16\_fv3wam -D32BIT=ON -DMULTI\_GASES=ON -DDEBUG=ON -  
DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug

Compile wam\_intel elapsed time 499 seconds. -DAPP=ATM -  
DCCPP\_SUITES= FV3\_GFS\_v16\_fv3wam -D32BIT=ON -DMULTI\_GASES=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/cpld\_control\_p8\_mixedmode\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_control\_p8\_mixedmode\_  
intel

Checking test 001 cpld\_control\_p8\_mixedmode\_intel results ....

Comparing sfcf021.tile1.nc .....OK  
Comparing sfcf021.tile2.nc .....OK  
Comparing sfcf021.tile3.nc .....OK  
Comparing sfcf021.tile4.nc .....OK  
Comparing sfcf021.tile5.nc .....OK  
Comparing sfcf021.tile6.nc .....OK  
Comparing atmf021.tile1.nc .....OK  
Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK

```
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK
```

```
0: The total amount of wall time           = 314.479126
0: The maximum resident set size (KB)      = 3148984
```

Test 001 cpld\_control\_p8\_mixedmode\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_control_gfsv17_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_gfsv17_intel
Checking test 002 cpld_control_gfsv17_intel results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
```

```

Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time                = 223.995103
0: The maximum resident set size (KB)          = 1678440

```

Test 002 cpld\_control\_gfsv17\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_p8_intel
Checking test 003 cpld_control_p8_intel results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK

```

```

Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_0600z.nc4 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 354.214272
0: The maximum resident set size (KB)      = 3186856

```

Test 003 cpld\_control\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_qr_p8_intel
Checking test 005 cpld_control_qr_p8_intel results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_0600z.nc4 .....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 .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....ALT
CHECK.....OK
```



```

Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time                = 344.838392
0: The maximum resident set size (KB)          = 3175312

```

Test 005 cpld\_control\_qr\_p8\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_2threads_p8_intel
Checking test 007 cpld_2threads_p8_intel results ....
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK

```

```

Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_0600z.nc4 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 332.154556
0: The maximum resident set size (KB)     = 3523720

```

Test 007 cpld\_2threads\_p8\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFv3gfs/develop-20230804/cpld\_control\_p8\_intel

```

working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_decomp_p8_intel
Checking test 008 cpld_decomp_p8_intel results ....
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_0600z.nc4 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time = 350.292331
0: The maximum resident set size (KB) = 3165444

```

Test 008 cpld\_decomp\_p8\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/cpld\_control\_p8\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_mpi\_p8\_intel

Checking test 009 cpld\_mpi\_p8\_intel results ....

Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT  
OK  
Comparing RESTART/iced.2021-03-23-21600.nc .....OK

Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK  
Comparing 20210323.060000.out\_pnt.wv3 .....OK  
Comparing 20210323.060000.out\_grd.wv3 .....OK

0: The total amount of wall time = 286.134064  
0: The maximum resident set size (KB) = 3026360

Test 009 cpld\_mpi\_p8\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/cpld\_control\_ciceC\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_control\_ciceC\_p8\_inte  
l

Checking test 010 cpld\_control\_ciceC\_p8\_intel results ....

Comparing sfcf021.tile1.nc .....OK  
Comparing sfcf021.tile2.nc .....OK  
Comparing sfcf021.tile3.nc .....OK  
Comparing sfcf021.tile4.nc .....OK  
Comparing sfcf021.tile5.nc .....OK  
Comparing sfcf021.tile6.nc .....OK  
Comparing atmf021.tile1.nc .....OK  
Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK

```
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK
```

```
0: The total amount of wall time = 354.635980
0: The maximum resident set size (KB) = 3189768
```

Test 010 cpld\_control\_ciceC\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_c192_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_c192_p8_intel
Checking test 011 cpld_control_c192_p8_intel results ....
Comparing sfcf030.tile1.nc .....OK
Comparing sfcf030.tile2.nc .....OK
Comparing sfcf030.tile3.nc .....OK
Comparing sfcf030.tile4.nc .....OK
Comparing sfcf030.tile5.nc .....OK
Comparing sfcf030.tile6.nc .....OK
Comparing atmf030.tile1.nc .....OK
Comparing atmf030.tile2.nc .....OK
Comparing atmf030.tile3.nc .....OK
Comparing atmf030.tile4.nc .....OK
Comparing atmf030.tile5.nc .....OK
Comparing atmf030.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_1200z.nc4 .....OK
Comparing RESTART/20210323.120000.coupler.res .....OK
Comparing RESTART/20210323.120000.fv_core.res.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile2.nc .....OK
```

```

Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.120000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.120000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.120000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-43200.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-43200.nc .....OK
Comparing 20210323.120000.out_grd.wv3 .....OK
Comparing 20210323.120000.out_pnt.wv3 .....OK

```

```

0: The total amount of wall time = 587.269246
0: The maximum resident set size (KB) = 3412464

```

Test 011 cpld\_control\_c192\_p8\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3gfs/develop-
20230804/cpld_bmark_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_bmark_p8_intel
Checking test 013 cpld_bmark_p8_intel results ....
Comparing sfcf006.nc .....OK
Comparing atmf006.nc .....OK
Comparing GFSFLX.GrbF06 .....OK
Comparing GFSPRS.GrbF06 .....OK
Comparing gocart.inst_aod.20130401_0600z.nc4 .....OK
Comparing RESTART/20130401.060000.coupler.res .....OK
Comparing RESTART/20130401.060000.fv_core.res.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20130401.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile4.nc .....OK

```

```

Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20130401.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20130401.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20130401.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20130401.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20130401.060000.MOM.res.nc .....OK
Comparing RESTART/20130401.060000.MOM.res_1.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/20130401.060000.MOM.res_2.nc .....OK
Comparing RESTART/20130401.060000.MOM.res_3.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/iced.2013-04-01-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2013-04-01-21600.nc .....OK
Comparing 20130401.060000.out_pnt.wv3 .....OK
Comparing 20130401.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 681.153855
0: The maximum resident set size (KB)     = 4089760

```

Test 013 cpld\_bmark\_p8\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_noaero_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_noaero_p8_int
el

```

Checking test 015 cpld\_control\_noaero\_p8\_intel results ....

```

Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK

```



```

Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 270.110928
0: The maximum resident set size (KB)     = 1718396

```

Test 015 cpld\_control\_noaero\_p8\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFv3gfs/develop-
20230804/cpld_control_c96_noaero_p8_intel

```

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_nowave_noaero
_p8_intel
Checking test 016 cpld_control_nowave_noaero_p8_intel results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
```

Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT  
OK

Comparing RESTART/iced.2021-03-23-21600.nc .....OK  
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK

0: The total amount of wall time = 270.302028  
0: The maximum resident set size (KB) = 1756836

Test 016 cpld\_control\_nowave\_noaero\_p8\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/cpld\_debug\_p8\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_debug\_p8\_intel

Checking test 017 cpld\_debug\_p8\_intel results ....

Comparing sfcf003.tile1.nc .....OK  
Comparing sfcf003.tile2.nc .....OK  
Comparing sfcf003.tile3.nc .....OK  
Comparing sfcf003.tile4.nc .....OK  
Comparing sfcf003.tile5.nc .....OK  
Comparing sfcf003.tile6.nc .....OK  
Comparing atmf003.tile1.nc .....OK  
Comparing atmf003.tile2.nc .....OK  
Comparing atmf003.tile3.nc .....OK  
Comparing atmf003.tile4.nc .....OK  
Comparing atmf003.tile5.nc .....OK  
Comparing atmf003.tile6.nc .....OK  
Comparing gocart.inst\_aod.20210322\_0900z.nc4 .....OK  
Comparing RESTART/20210322.090000.coupler.res .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.090000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.090000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.090000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.090000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.090000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.090000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.090000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.090000.phy\_data.tile5.nc .....OK

```
Comparing RESTART/20210322.090000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-22-32400.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....OK
Comparing 20210322.090000.out_pnt.ww3 .....OK
Comparing 20210322.090000.out_grd.ww3 .....OK
```

```
0: The total amount of wall time = 535.070056
0: The maximum resident set size (KB) = 3198544
```

Test 017 cpld\_debug\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_debug_noaero_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_debug_noaero_p8_intel
Checking test 018 cpld_debug_noaero_p8_intel results ....
Comparing sfcf003.tile1.nc .....OK
Comparing sfcf003.tile2.nc .....OK
Comparing sfcf003.tile3.nc .....OK
Comparing sfcf003.tile4.nc .....OK
Comparing sfcf003.tile5.nc .....OK
Comparing sfcf003.tile6.nc .....OK
Comparing atmf003.tile1.nc .....OK
Comparing atmf003.tile2.nc .....OK
Comparing atmf003.tile3.nc .....OK
Comparing atmf003.tile4.nc .....OK
Comparing atmf003.tile5.nc .....OK
Comparing atmf003.tile6.nc .....OK
Comparing RESTART/20210322.090000.coupler.res .....OK
Comparing RESTART/20210322.090000.fv_core.res.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile6.nc .....OK
```

```
Comparing RESTART/20210322.090000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-22-32400.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....OK
Comparing 20210322.090000.out_pnt.wv3 .....OK
Comparing 20210322.090000.out_grd.wv3 .....OK
```

```
0: The total amount of wall time                = 354.717833
0: The maximum resident set size (KB)           = 1710952
```

Test 018 cpld\_debug\_noaero\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_noaero_p8_agrid_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_noaero_p8_agr
id_intel
```

Checking test 019 cpld\_control\_noaero\_p8\_agrid\_intel results ....

```
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
```

```

Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK

```

```

0: The total amount of wall time           = 271.006255
0: The maximum resident set size (KB)     = 1761284

```

Test 019 cpld\_control\_noaero\_p8\_agrid\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_c48_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_c48_intel
Checking test 020 cpld_control_c48_intel results ....
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK

```

```

Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK

```

```

0: The total amount of wall time           = 586.004803
0: The maximum resident set size (KB)     = 2799508

```

Test 020 cpld\_control\_c48\_intel FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_control_p8_faster_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_p8_faster_intel

```

Checking test 021 cpld\_control\_p8\_faster\_intel results ....

```

Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK

```

Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT  
OK  
Comparing RESTART/iced.2021-03-23-21600.nc .....OK  
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK  
Comparing 20210323.060000.out\_pnt.wv3 .....OK  
Comparing 20210323.060000.out\_grd.wv3 .....OK



0: The total amount of wall time = 324.864098  
0: The maximum resident set size (KB) = 3134772

Test 021 cpld\_control\_p8\_faster\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/cpld\_control\_pdlib\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_control\_pdlib\_p8\_intel

Checking test 022 cpld\_control\_pdlib\_p8\_intel results ....

Comparing sfcf021.tile1.nc .....OK  
Comparing sfcf021.tile2.nc .....OK  
Comparing sfcf021.tile3.nc .....OK  
Comparing sfcf021.tile4.nc .....OK  
Comparing sfcf021.tile5.nc .....OK  
Comparing sfcf021.tile6.nc .....OK  
Comparing atmf021.tile1.nc .....OK  
Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK

```
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK
```

```
0: The total amount of wall time                = 1198.171550
0: The maximum resident set size (KB)           = 1757124
```

Test 022 cpld\_control\_pdlib\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_debug_pdlib_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_debug_pdlib_p8_intel
Checking test 025 cpld_debug_pdlib_p8_intel results ....
Comparing sfcf003.tile1.nc .....OK
Comparing sfcf003.tile2.nc .....OK
Comparing sfcf003.tile3.nc .....OK
Comparing sfcf003.tile4.nc .....OK
Comparing sfcf003.tile5.nc .....OK
Comparing sfcf003.tile6.nc .....OK
Comparing atmf003.tile1.nc .....OK
Comparing atmf003.tile2.nc .....OK
Comparing atmf003.tile3.nc .....OK
Comparing atmf003.tile4.nc .....OK
Comparing atmf003.tile5.nc .....OK
Comparing atmf003.tile6.nc .....OK
Comparing RESTART/20210322.090000.coupler.res .....OK
Comparing RESTART/20210322.090000.fv_core.res.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile2.nc .....OK
```

```
Comparing RESTART/20210322.090000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-22-32400.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....OK
Comparing 20210322.090000.out_pnt.ww3 .....OK
Comparing 20210322.090000.out_grd.ww3 .....OK
```

```
0: The total amount of wall time = 1367.007156
0: The maximum resident set size (KB) = 1683096
```

Test 025 cpld\_debug\_pdlib\_p8\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_flake_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_flake_intel
Checking test 026 control_flake_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF24 .....OK
```

```
0: The total amount of wall time = 190.812051
0: The maximum resident set size (KB) = 696636
```

Test 026 control\_flake\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_CubedSphereGrid_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_CubedSphereGrid_in
tel
Checking test 027 control_CubedSphereGrid_intel results ....
Comparing sfcf000.tile1.nc .....OK
Comparing sfcf000.tile2.nc .....OK
```

Comparing sfcf000.tile3.nc .....OK  
Comparing sfcf000.tile4.nc .....OK  
Comparing sfcf000.tile5.nc .....OK  
Comparing sfcf000.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf000.tile1.nc .....OK  
Comparing atmf000.tile2.nc .....OK  
Comparing atmf000.tile3.nc .....OK  
Comparing atmf000.tile4.nc .....OK  
Comparing atmf000.tile5.nc .....OK  
Comparing atmf000.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK

0: The total amount of wall time = 137.852634  
0: The maximum resident set size (KB) = 637756

Test 027 control\_CubedSphereGrid\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/control\_CubedSphereGrid\_parallel\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_CubedSphereGrid\_pa  
rallel\_intel

Checking test 028 control\_CubedSphereGrid\_parallel\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing cubed\_sphere\_grid\_sfcf000.nc .....OK  
Comparing cubed\_sphere\_grid\_sfcf024.nc .....OK  
Comparing cubed\_sphere\_grid\_atmf000.nc .....ALT CHECK.....OK  
Comparing cubed\_sphere\_grid\_atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 148.725177  
0: The maximum resident set size (KB) = 627956

Test 028 control\_CubedSphereGrid\_parallel\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/control\_latlon\_intel

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_latlon_intel
Checking test 029 control_latlon_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF24 .....OK
```

```
0: The total amount of wall time           = 139.119199
0: The maximum resident set size (KB)      = 637148
```

Test 029 control\_latlon\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_wrtGauss_netcdf_parallel_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_wrtGauss_netcdf_pa
rallel_intel
```

```
Checking test 030 control_wrtGauss_netcdf_parallel_intel results ....
Comparing sfcf000.nc .....ALT CHECK.....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF24 .....OK
```

```
0: The total amount of wall time           = 143.392923
0: The maximum resident set size (KB)      = 625972
```

Test 030 control\_wrtGauss\_netcdf\_parallel\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_c48_intel
working dir =
```

```
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_c48_intel
Checking test 031 control_c48_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
```

Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 369.742145  
0: The maximum resident set size (KB) = 829792

Test 031 control\_c48\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_c192\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_c192\_intel  
Checking test 032 control\_c192\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 526.160442  
0: The maximum resident set size (KB) = 780040

Test 032 control\_c192\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_c384\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_c384\_intel  
Checking test 033 control\_c384\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 528.731378  
0: The maximum resident set size (KB) = 1279900

Test 033 control\_c384\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/control\_c384gdas\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_c384gdas\_intel  
Checking test 034 control\_c384gdas\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf006.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF06 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF06 .....OK  
Comparing RESTART/20210322.060000.coupler.res .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.060000.sfc\_data.tile5.nc .....OK

Comparing RESTART/20210322.060000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 464.597879  
0: The maximum resident set size (KB) = 1402820

Test 034 control\_c384gdas\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/control\_stochy\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_stochy\_intel

Checking test 035 control\_stochy\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 90.201636  
0: The maximum resident set size (KB) = 646784

Test 035 control\_stochy\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/control\_stochy\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_stochy\_restart\_intel

Checking test 036 control\_stochy\_restart\_intel results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 49.101860  
0: The maximum resident set size (KB) = 496776

Test 036 control\_stochy\_restart\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/control\_lndp\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_lndp\_intel

Checking test 037 control\_lndp\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK



Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 81.198902  
0: The maximum resident set size (KB) = 643008

Test 037 control\_lndp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/control\_iovr4\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_iovr4\_intel

Checking test 038 control\_iovr4\_intel 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

0: The total amount of wall time = 138.186175  
0: The maximum resident set size (KB) = 637104

Test 038 control\_iovr4\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/control\_iovr5\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_iovr5\_intel

Checking test 039 control\_iovr5\_intel 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

0: The total amount of wall time = 137.960911  
0: The maximum resident set size (KB) = 635260

Test 039 control\_iovr5\_intel PASS

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_p8_intel
Checking test 040 control_p8_intel 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

0: The total amount of wall time = 174.285882
0: The maximum resident set size (KB) = 1594428

Test 040 control_p8_intel PASS

```

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_restart_p8_intel
Checking test 041 control_restart_p8_intel results ....
Comparing sfcf024.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF24 .....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

0: The total amount of wall time = 89.795653
0: The maximum resident set size (KB) = 884376
```

Test 041 control\_restart\_p8\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_qr_p8_intel
Checking test 042 control_qr_p8_intel 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 .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....ALT  
CHECK.....OK

```
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....ALT
CHECK.....OK
```

```
0: The total amount of wall time = 169.114345
0: The maximum resident set size (KB) = 1612988
```

Test 042 control\_qr\_p8\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_restart_qr_p8_inte
l
```

```
Checking test 043 control_restart_qr_p8_intel results ....
Comparing sfcf024.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF24 .....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 .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....ALT
CHECK.....OK
```

Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....ALT  
CHECK.....OK

0: The total amount of wall time = 89.735218  
0: The maximum resident set size (KB) = 877804

Test 043 control\_restart\_qr\_p8\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_decomp\_p8\_intel  
Checking test 044 control\_decomp\_p8\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....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

0: The total amount of wall time = 178.715318  
0: The maximum resident set size (KB) = 1593012

Test 044 control\_decomp\_p8\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3gfs/develop-  
20230804/control\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_2threads\_p8\_intel  
Checking test 045 control\_2threads\_p8\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....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

0: The total amount of wall time = 158.948000  
0: The maximum resident set size (KB) = 1689012

Test 045 control\_2threads\_p8\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/control\_p8\_lndp\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_p8\_lndp\_intel  
Checking test 046 control\_p8\_lndp\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf021.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing sfcf048.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf021.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing atmf048.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF21 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSFLX.GrbF48 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF21 .....OK  
Comparing GFSPRS.GrbF24 .....OK  
Comparing GFSPRS.GrbF48 .....OK

0: The total amount of wall time = 316.585435  
0: The maximum resident set size (KB) = 1607896



Test 046 control\_p8\_lndp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/control\_p8\_rrtmgp\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_p8\_rrtmgp\_intel

Checking test 047 control\_p8\_rrtmgp\_intel 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

0: The total amount of wall time = 223.269834

0: The maximum resident set size (KB) = 1666252

Test 047 control\_p8\_rrtmgp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/control\_p8\_mynn\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_p8\_mynn\_intel

Checking test 048 control\_p8\_mynn\_intel 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

0: The total amount of wall time = 173.756995  
0: The maximum resident set size (KB) = 1579608

Test 048 control\_p8\_mynn\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/merra2_thompson_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/merra2_thompson_intel
Checking test 049 merra2_thompson_intel 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

0: The total amount of wall time = 193.798664
0: The maximum resident set size (KB) = 1610304
```

Test 049 merra2\_thompson\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_control_intel
Checking test 050 regional_control_intel 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

0: The total amount of wall time = 291.261974
0: The maximum resident set size (KB) = 879176
```

Test 050 regional\_control\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_restart_intel
Checking test 051 regional_restart_intel results ....
Comparing dynf006.nc .....OK
Comparing phyf006.nc .....OK
Comparing PRSLEV.GrbF06 .....OK
Comparing NATLEV.GrbF06 .....OK

0: The total amount of wall time = 148.098016
0: The maximum resident set size (KB) = 870552
```

Test 051 regional\_restart\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_control_qr_intel
Checking test 052 regional_control_qr_intel 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

0: The total amount of wall time = 293.039528
0: The maximum resident set size (KB) = 880260
```

Test 052 regional\_control\_qr\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_restart_qr_intel
Checking test 053 regional_restart_qr_intel results ....
Comparing dynf006.nc .....OK
Comparing phyf006.nc .....OK
Comparing PRSLEV.GrbF06 .....OK
Comparing NATLEV.GrbF06 .....OK

0: The total amount of wall time                = 149.915801
0: The maximum resident set size (KB)           = 869888
```

Test 053 regional\_restart\_qr\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_decomp_intel
Checking test 054 regional_decomp_intel 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

0: The total amount of wall time                = 310.434510
0: The maximum resident set size (KB)           = 875284
```

Test 054 regional\_decomp\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_2threads_intel
Checking test 055 regional_2threads_intel 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

0: The total amount of wall time                = 176.063858
0: The maximum resident set size (KB)           = 828236
```

Test 055 regional\_2threads\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_noquilt_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_noquilt_intel
Checking test 056 regional_noquilt_intel results ....
Comparing atmos_4xdaily.nc .....OK
Comparing fv3_history2d.nc .....OK
Comparing fv3_history.nc .....OK
Comparing RESTART/fv_core.res.tile1_new.nc .....OK
Comparing RESTART/fv_tracer.res.tile1_new.nc .....OK

0: The total amount of wall time                = 289.851809
0: The maximum resident set size (KB)           = 862468
```

Test 056 regional\_noquilt\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_netcdf_parallel_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_netcdf_parallel_i
ntel
Checking test 057 regional_netcdf_parallel_intel results ....
Comparing dynf000.nc .....OK
Comparing dynf006.nc .....OK
Comparing phyf000.nc .....ALT CHECK.....OK
Comparing phyf006.nc .....OK

0: The total amount of wall time                = 288.353933
0: The maximum resident set size (KB)           = 871764
```

Test 057 regional\_netcdf\_parallel\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_2dwrtdecomp_intel
Checking test 058 regional_2dwrtdecomp_intel 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

0: The total amount of wall time                = 294.926457
0: The maximum resident set size (KB)           = 881876
```

Test 058 regional\_2dwrtdecomp\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/fv3_regional_wofs_intel
```

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_wofs_intel
Checking test 059 regional_wofs_intel 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
```

```
0: The total amount of wall time           = 372.066286
0: The maximum resident set size (KB)     = 649412
```

Test 059 regional\_wofs\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_control_intel
Checking test 060 rap_control_intel 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
```

```
0: The total amount of wall time = 447.916562
0: The maximum resident set size (KB) = 1060360
```

Test 060 rap\_control\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_spp_sppt_shum_skeb_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_spp_sppt_shum_ske
b_intel
```

Checking test 061 regional\_spp\_sppt\_shum\_skeb\_intel results ....

```
Comparing dynf000.nc .....OK
Comparing dynf001.nc .....OK
Comparing phyf000.nc .....OK
Comparing phyf001.nc .....OK
Comparing PRSLEV.GrbF00 .....OK
Comparing PRSLEV.GrbF01 .....OK
Comparing NATLEV.GrbF00 .....OK
Comparing NATLEV.GrbF01 .....OK
```

```
0: The total amount of wall time = 233.826480
0: The maximum resident set size (KB) = 1195584
```

Test 061 regional\_spp\_sppt\_shum\_skeb\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_decomp_intel
```

Checking test 062 rap\_decomp\_intel 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

0: The total amount of wall time = 467.730332  
0: The maximum resident set size (KB) = 1012384

Test 062 rap\_decomp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3gfs/develop-  
20230804/rap\_control\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_2threads\_intel  
Checking test 063 rap\_2threads\_intel 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

0: The total amount of wall time = 420.077193  
0: The maximum resident set size (KB) = 1153664

Test 063 rap\_2threads\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_control\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_restart\_intel  
Checking test 064 rap\_restart\_intel results ....  
Comparing sfcf024.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF24 .....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

0: The total amount of wall time = 229.188672  
0: The maximum resident set size (KB) = 977244

Test 064 rap\_restart\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_sfcdiff\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_intel  
Checking test 065 rap\_sfcdiff\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 451.655038  
0: The maximum resident set size (KB) = 1064084

Test 065 rap\_sfcdiff\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_sfcdiff\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_decomp\_intel  
Checking test 066 rap\_sfcdiff\_decomp\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 475.114414  
0: The maximum resident set size (KB) = 1010472

Test 066 rap\_sfcdiff\_decomp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_sfcdiff\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_restart\_intel  
Checking test 067 rap\_sfcdiff\_restart\_intel results ....  
Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....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
```

```
0: The total amount of wall time = 334.987447
0: The maximum resident set size (KB) = 994424
```

Test 067 rap\_sfcdiff\_restart\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hrrr_control_intel
```

```
working dir =
```

```
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_intel
```

```
Checking test 068 hrrr_control_intel results ....
```

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile4.nc .....OK
```

```
Comparing RESTART/20210322.120000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile6.nc .....OK
```

```
0: The total amount of wall time                = 430.769201
0: The maximum resident set size (KB)          = 1057484
```

Test 068 hrrr\_control\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_qr_intel
Checking test 069 hrrr_control_qr_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....ALT
CHECK.....OK
```

Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....ALT  
CHECK.....OK

0: The total amount of wall time = 427.559018  
0: The maximum resident set size (KB) = 1075472

Test 069 hrrr\_control\_qr\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_decomp\_intel  
Checking test 070 hrrr\_control\_decomp\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK



Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 451.559878  
0: The maximum resident set size (KB) = 967228

Test 070 hrrr\_control\_decomp\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/hrrr\_control\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_2threads\_intel

Checking test 071 hrrr\_control\_2threads\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK

Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 400.874742  
0: The maximum resident set size (KB) = 1075504

Test 071 hrrr\_control\_2threads\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_intel  
Checking test 072 hrrr\_control\_restart\_intel results ....  
Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 323.279757  
0: The maximum resident set size (KB) = 979740

Test 072 hrrr\_control\_restart\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/hrrr\_control\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_gr\_intel

Checking test 073 hrrr\_control\_restart\_gr\_intel results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 323.446972  
0: The maximum resident set size (KB) = 1008312

Test 073 hrrr\_control\_restart\_gr\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rrfs\_v1beta\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_v1beta\_intel

Checking test 074 rrfs\_v1beta\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 447.451355  
0: The maximum resident set size (KB) = 1063844

Test 074 rrfv\_v1beta\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rrfv\_v1nssl\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfv\_v1nssl\_intel  
Checking test 075 rrfv\_v1nssl\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 526.693255  
0: The maximum resident set size (KB) = 696532

Test 075 rrfv\_v1nssl\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rrfv\_v1nssl\_nohailnoccn\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfv\_v1nssl\_nohailnoccn\_in  
tel

Checking test 076 rrfv\_v1nssl\_nohailnoccn\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK

Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 517.259198  
0: The maximum resident set size (KB) = 770932

Test 076 rrfv\_vlnssl\_nohailnoccn\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rrfv\_smoke\_conus13km\_hrrr\_warm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfv\_smoke\_conus13km\_hrrr\_  
warm\_intel

Checking test 077 rrfv\_smoke\_conus13km\_hrrr\_warm\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK  
Comparing RESTART/20210512.170000.coupler.res .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.nc .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.phy\_data.nc .....OK  
Comparing RESTART/20210512.170000.sfc\_data.nc .....OK

0: The total amount of wall time = 150.413354  
0: The maximum resident set size (KB) = 1035952

Test 077 rrfv\_smoke\_conus13km\_hrrr\_warm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rrfv\_smoke\_conus13km\_hrrr\_warm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfv\_smoke\_conus13km\_hrrr\_  
warm\_qr\_intel

Checking test 078 rrfv\_smoke\_conus13km\_hrrr\_warm\_qr\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK  
Comparing RESTART/20210512.170000.coupler.res .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.nc .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210512.170000.fv\_srf\_wnd.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210512.170000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK

Comparing RESTART/20210512.170000.phy\_data.nc .....ALT CHECK.....OK  
Comparing RESTART/20210512.170000.sfc\_data.nc .....ALT CHECK.....OK

0: The total amount of wall time = 144.962225  
0: The maximum resident set size (KB) = 985536

Test 078 rrf\_smoke\_conus13km\_hrrr\_warm\_qr\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_hrrr\_  
warm\_2threads\_intel

Checking test 079 rrf\_smoke\_conus13km\_hrrr\_warm\_2threads\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK

0: The total amount of wall time = 93.358618  
0: The maximum resident set size (KB) = 939848

Test 079 rrf\_smoke\_conus13km\_hrrr\_warm\_2threads\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_conus13km\_hrrr\_warm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_conus13km\_hrrr\_warm\_i  
ntel

Checking test 080 rrf\_conus13km\_hrrr\_warm\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK  
Comparing RESTART/20210512.170000.coupler.res .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.nc .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.phy\_data.nc .....OK  
Comparing RESTART/20210512.170000.sfc\_data.nc .....OK

0: The total amount of wall time = 134.036644  
0: The maximum resident set size (KB) = 994448

Test 080 rrf\_conus13km\_hrrr\_warm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_radar\_tten\_intel

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_radar
_tten_warm_intel
Checking test 081 rrfs_smoke_conus13km_radar_tten_warm_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time = 152.062894
0: The maximum resident set size (KB) = 1036136
```

Test 081 rrfs\_smoke\_conus13km\_radar\_tten\_warm\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_hrrr_
warm_restart_mismatch_intel
Checking test 082 rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_intel
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time = 85.085502
0: The maximum resident set size (KB) = 1026204
```

Test 082 rrfs\_smoke\_conus13km\_hrrr\_warm\_restart\_mismatch\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_hrrr_
warm_restart_qr_mismatch_intel
Checking test 083 rrfs_smoke_conus13km_hrrr_warm_restart_qr_mismatch_intel
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time = 93.260511
0: The maximum resident set size (KB) = 928856
```

Test 083 rrfs\_smoke\_conus13km\_hrrr\_warm\_restart\_qr\_mismatch\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_csawmg_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_csawmg_intel
Checking test 084 control_csawmg_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
```

Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 337.649468  
0: The maximum resident set size (KB) = 729256

Test 084 control\_csawmg\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_csawmg\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_csawmg\_intel  
Checking test 085 control\_csawmg\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 334.210147  
0: The maximum resident set size (KB) = 727164

Test 085 control\_csawmg\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_ras\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_ras\_intel  
Checking test 086 control\_ras\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 184.784335  
0: The maximum resident set size (KB) = 725252

Test 086 control\_ras\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_wam\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_wam\_intel  
Checking test 087 control\_wam\_intel results ....



Comparing sfcf024.nc .....OK  
Comparing atmf024.nc .....OK

0: The total amount of wall time = 112.572904  
0: The maximum resident set size (KB) = 644004

Test 087 control\_wam\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/control\_p8\_faster\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_p8\_faster\_intel

Checking test 088 control\_p8\_faster\_intel 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

0: The total amount of wall time = 153.421282  
0: The maximum resident set size (KB) = 1606012

Test 088 control\_p8\_faster\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/regional\_control\_faster\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/regional\_control\_faster\_in  
tel

Checking test 089 regional\_control\_faster\_intel 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

0: The total amount of wall time = 265.764518  
0: The maximum resident set size (KB) = 880424

Test 089 regional\_control\_faster\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_hrrr\_  
warm\_debug\_intel

Checking test 090 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 830.400769  
0: The maximum resident set size (KB) = 1061952

Test 090 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_hrrr\_  
warm\_debug\_2threads\_intel

Checking test 091 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_2threads\_intel  
results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 467.170373  
0: The maximum resident set size (KB) = 965996

Test 091 rrf\_smoke\_conus13km\_hrrr\_warm\_debug\_2threads\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/rrfs\_conus13km\_hrrr\_warm\_debugs\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_conus13km\_hrrr\_warm\_debug\_intel

Checking test 092 rrf\_conus13km\_hrrr\_warm\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 752.863358  
0: The maximum resident set size (KB) = 1016604

Test 092 rrf\_conus13km\_hrrr\_warm\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/control\_CubedSphereGrid\_debug\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_CubedSphereGrid\_debug\_intel

Checking test 093 control\_CubedSphereGrid\_debug\_intel results ....

Comparing sfcf000.tile1.nc .....OK  
Comparing sfcf000.tile2.nc .....OK  
Comparing sfcf000.tile3.nc .....OK  
Comparing sfcf000.tile4.nc .....OK  
Comparing sfcf000.tile5.nc .....OK  
Comparing sfcf000.tile6.nc .....OK  
Comparing sfcf001.tile1.nc .....OK  
Comparing sfcf001.tile2.nc .....OK  
Comparing sfcf001.tile3.nc .....OK  
Comparing sfcf001.tile4.nc .....OK  
Comparing sfcf001.tile5.nc .....OK  
Comparing sfcf001.tile6.nc .....OK  
Comparing atmf000.tile1.nc .....OK  
Comparing atmf000.tile2.nc .....OK  
Comparing atmf000.tile3.nc .....OK  
Comparing atmf000.tile4.nc .....OK  
Comparing atmf000.tile5.nc .....OK  
Comparing atmf000.tile6.nc .....OK  
Comparing atmf001.tile1.nc .....OK  
Comparing atmf001.tile2.nc .....OK  
Comparing atmf001.tile3.nc .....OK  
Comparing atmf001.tile4.nc .....OK  
Comparing atmf001.tile5.nc .....OK  
Comparing atmf001.tile6.nc .....OK

0: The total amount of wall time = 148.553204  
0: The maximum resident set size (KB) = 795496

Test 093 control\_CubedSphereGrid\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_wrtGauss_netcdf_parallel_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_wrtGauss_netcdf_pa
rallel_debug_intel
Checking test 094 control_wrtGauss_netcdf_parallel_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 143.583939
0: The maximum resident set size (KB)      = 795172
```

Test 094 control\_wrtGauss\_netcdf\_parallel\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_stochy_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_stochy_debug_intel
Checking test 095 control_stochy_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 162.628997
0: The maximum resident set size (KB)      = 803280
```

Test 095 control\_stochy\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_lndp_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_lndp_debug_intel
Checking test 096 control_lndp_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 149.270477
0: The maximum resident set size (KB)      = 801088
```

Test 096 control\_lndp\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_csawmg_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_csawmg_debug_intel
```

Checking test 097 control\_csawmg\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 232.359884  
0: The maximum resident set size (KB) = 846256

Test 097 control\_csawmg\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_csawmg\_debug\_intel

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_csawmg\_debug\_intel

Checking test 098 control\_csawmg\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 225.793457  
0: The maximum resident set size (KB) = 841488

Test 098 control\_csawmg\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_ras\_debug\_intel

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_ras\_debug\_intel

Checking test 099 control\_ras\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 151.053718  
0: The maximum resident set size (KB) = 814136

Test 099 control\_ras\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_diag\_debug\_intel

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_diag\_debug\_intel

Checking test 100 control\_diag\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 154.664934  
0: The maximum resident set size (KB) = 854116

Test 100 control\_diag\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_debug_p8_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_debug_p8_intel
Checking test 101 control_debug_p8_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time                = 165.661716
0: The maximum resident set size (KB)           = 1621732
```

Test 101 control\_debug\_p8\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_debug_intel
Checking test 102 regional_debug_intel results ....
Comparing dynf000.nc .....OK
Comparing dynf001.nc .....OK
Comparing phyf000.nc .....OK
Comparing phyf001.nc .....OK

0: The total amount of wall time                = 983.032797
0: The maximum resident set size (KB)           = 893212
```

Test 102 regional\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_control_debug_intel
Checking test 103 rap_control_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time                = 274.631923
0: The maximum resident set size (KB)           = 1176804
```

Test 103 rap\_control\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hrrr_control_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_debug_intel
Checking test 104 hrrr_control_debug_intel results ....
```

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 264.653932  
0: The maximum resident set size (KB) = 1190752

Test 104 hrrr\_control\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_control\_debug\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_unified\_drag\_suite\_deb  
ug\_intel

Checking test 105 rap\_unified\_drag\_suite\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 275.553976  
0: The maximum resident set size (KB) = 1190644

Test 105 rap\_unified\_drag\_suite\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_diag\_debug\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_diag\_debug\_intel

Checking test 106 rap\_diag\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 290.557389  
0: The maximum resident set size (KB) = 1256340

Test 106 rap\_diag\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_cires\_ugwp\_debug\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_cires\_ugwp\_debug\_intel

Checking test 107 rap\_cires\_ugwp\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 281.411761  
0: The maximum resident set size (KB) = 1181788

Test 107 rap\_cires\_ugwp\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_cires\_ugwp\_debug\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_unified\_ugwp\_debug\_intel

Checking test 108 rap\_unified\_ugwp\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 279.774016  
0: The maximum resident set size (KB) = 1186760

Test 108 rap\_unified\_ugwp\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_lndp\_debug\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_lndp\_debug\_intel

Checking test 109 rap\_lndp\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 275.055949  
0: The maximum resident set size (KB) = 1182100

Test 109 rap\_lndp\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_progclد\_thompson\_debug\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_progclد\_thompson\_debug\_intel

Checking test 110 rap\_progclد\_thompson\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 272.585341  
0: The maximum resident set size (KB) = 1178056

Test 110 rap\_progclد\_thompson\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_noah\_debug\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_noah\_debug\_intel



Checking test 111 rap\_noah\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 265.258198  
0: The maximum resident set size (KB) = 1181340

Test 111 rap\_noah\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_sfcdiff\_debug\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_debug\_intel

Checking test 112 rap\_sfcdiff\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 272.085811  
0: The maximum resident set size (KB) = 1179352

Test 112 rap\_sfcdiff\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_noah\_sfcdiff\_cires\_uqwp\_debug\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_noah\_sfcdiff\_cires\_uqwp\_  
p\_debug\_intel

Checking test 113 rap\_noah\_sfcdiff\_cires\_uqwp\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 447.459423  
0: The maximum resident set size (KB) = 1177736

Test 113 rap\_noah\_sfcdiff\_cires\_uqwp\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_v1beta\_debug\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_v1beta\_debug\_intel

Checking test 114 rrfs\_v1beta\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 267.954322  
0: The maximum resident set size (KB) = 1175356

Test 114 rrfv\_vlbeta\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_clm_lake_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_clm_lake_debug_intel
Checking test 115 rap_clm_lake_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 345.696875
0: The maximum resident set size (KB)      = 1192684
```

Test 115 rap\_clm\_lake\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_flake_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_flake_debug_intel
Checking test 116 rap_flake_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 273.213904
0: The maximum resident set size (KB)      = 1153992
```

Test 116 rap\_flake\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_wam_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_wam_debug_intel
Checking test 117 control_wam_debug_intel results ....
Comparing sfcf019.nc .....OK
Comparing atmf019.nc .....OK
```

```
0: The total amount of wall time           = 273.453326
0: The maximum resident set size (KB)      = 512144
```

Test 117 control\_wam\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_spp_sppt_shum_skeb_dyn32_phy32_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_spp_sppt_shum_ske
b_dyn32_phy32_intel
Checking test 118 regional_spp_sppt_shum_skeb_dyn32_phy32_intel results ....
Comparing dynf000.nc .....OK
```

Comparing dynf001.nc .....OK  
Comparing phyf000.nc .....OK  
Comparing phyf001.nc .....OK  
Comparing PRSLEV.GrbF00 .....OK  
Comparing PRSLEV.GrbF01 .....OK  
Comparing NATLEV.GrbF00 .....OK  
Comparing NATLEV.GrbF01 .....OK

0: The total amount of wall time = 218.844050  
0: The maximum resident set size (KB) = 1097804

Test 118 regional\_spp\_sppt\_shum\_skeb\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_control\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_dyn32\_phy32\_in  
tel

Checking test 119 rap\_control\_dyn32\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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
```

```
0: The total amount of wall time                = 372.122141
0: The maximum resident set size (KB)          = 1006904
```

Test 119 rap\_control\_dyn32\_phy32\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_dyn32_phy32_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_dyn32_phy32_i
ntel
```

Checking test 120 hrrr\_control\_dyn32\_phy32\_intel results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile5.nc .....OK
```

Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 191.028229  
0: The maximum resident set size (KB) = 966480

Test 120 hrrr\_control\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_qr\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_qr\_dyn32\_phy3  
2\_intel

Checking test 121 hrrr\_control\_qr\_dyn32\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK

```
Comparing RESTART/20210322.120000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile6.nc .....OK
```

```
0: The total amount of wall time = 191.530850
0: The maximum resident set size (KB) = 969808
```

Test 121 hrrr\_control\_qr\_dyn32\_phy32\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/rap_control_dyn32_phy32_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_2threads_dyn32_phy32_i
ntel
```

Checking test 122 rap\_2threads\_dyn32\_phy32\_intel results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....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
```

```
0: The total amount of wall time           = 352.205025
0: The maximum resident set size (KB)     = 1024328
```

Test 122 rap\_2threads\_dyn32\_phy32\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_dyn32_phy32_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_2threads_dyn3
2_phy32_intel
```

Checking test 123 hrrr\_control\_2threads\_dyn32\_phy32\_intel results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile5.nc .....OK
```

Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 177.717331  
0: The maximum resident set size (KB) = 936952

Test 123 hrrr\_control\_2threads\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_decomp\_dyn32\_  
phy32\_intel

Checking test 124 hrrr\_control\_decomp\_dyn32\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK



Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 204.382494  
0: The maximum resident set size (KB) = 900756

Test 124 hrrr\_control\_decomp\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_control\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_restart\_dyn32\_phy32\_in  
tel

Checking test 125 rap\_restart\_dyn32\_phy32\_intel results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 273.408782  
0: The maximum resident set size (KB) = 931776

Test 125 rap\_restart\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_dyn32  
\_phy32\_intel

Checking test 126 hrrr\_control\_restart\_dyn32\_phy32\_intel results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 99.519786  
0: The maximum resident set size (KB) = 866756

Test 126 hrrr\_control\_restart\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hrrr\_control\_qr\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_qr\_dy  
n32\_phy32\_intel

Checking test 127 hrrr\_control\_restart\_qr\_dyn32\_phy32\_intel results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 103.678090  
0: The maximum resident set size (KB) = 889216

Test 127 hrrr\_control\_restart\_qr\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_fast\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_fast\_  
phy32\_intel

Checking test 128 rrfs\_smoke\_conus13km\_fast\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK  
Comparing RESTART/20210512.170000.coupler.res .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.nc .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_tracer.res.tile1.nc .....OK

Comparing RESTART/20210512.170000.phy\_data.nc .....OK  
Comparing RESTART/20210512.170000.sfc\_data.nc .....OK

0: The total amount of wall time = 113.794764  
0: The maximum resident set size (KB) = 906956

Test 128 rrf\_smoke\_conus13km\_fast\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_fast\_phy32\_qr\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_fast\_  
phy32\_qr\_intel

Checking test 129 rrf\_smoke\_conus13km\_fast\_phy32\_qr\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing sfcf002.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK  
Comparing atmf002.nc .....OK  
Comparing RESTART/20210512.170000.coupler.res .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.nc .....OK  
Comparing RESTART/20210512.170000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210512.170000.phy\_data.nc .....OK  
Comparing RESTART/20210512.170000.sfc\_data.nc .....OK

0: The total amount of wall time = 111.527911  
0: The maximum resident set size (KB) = 940452

Test 129 rrf\_smoke\_conus13km\_fast\_phy32\_qr\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_fast\_phy32\_restart\_mismatch\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_fast\_  
phy32\_restart\_mismatch\_intel

Checking test 130 rrf\_smoke\_conus13km\_fast\_phy32\_restart\_mismatch\_intel  
results ....

Comparing sfcf002.nc .....OK  
Comparing atmf002.nc .....OK

0: The total amount of wall time = 66.914010  
0: The maximum resident set size (KB) = 872012

Test 130 rrf\_smoke\_conus13km\_fast\_phy32\_restart\_mismatch\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rrfs\_smoke\_conus13km\_fast\_phy32\_restart\_mismatch\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_fast\_  
phy32\_restart\_qr\_mismatch\_intel

Checking test 131 rrfc\_smoke\_conus13km\_fast\_phy32\_restart\_qr\_mismatch\_intel results ....

Comparing sfcf002.nc .....OK

Comparing atmf002.nc .....OK

0: The total amount of wall time = 76.305300

0: The maximum resident set size (KB) = 949388

Test 131 rrfc\_smoke\_conus13km\_fast\_phy32\_restart\_qr\_mismatch\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/rap\_control\_dyn64\_phy32\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_dyn64\_phy32\_intel

Checking test 132 rap\_control\_dyn64\_phy32\_intel results ....

Comparing sfcf000.nc .....OK

Comparing sfcf009.nc .....OK

Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf009.nc .....OK

Comparing atmf012.nc .....OK

Comparing GFSFLX.GrbF00 .....OK

Comparing GFSFLX.GrbF09 .....OK

Comparing GFSFLX.GrbF12 .....OK

Comparing GFSPRS.GrbF00 .....OK

Comparing GFSPRS.GrbF09 .....OK

Comparing GFSPRS.GrbF12 .....OK

Comparing RESTART/20210322.180000.coupler.res .....OK

Comparing RESTART/20210322.180000.fv\_core.res.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile1.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile2.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile3.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile4.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile5.nc .....OK

Comparing RESTART/20210322.180000.fv\_core.res.tile6.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile1.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile2.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile3.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile4.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile5.nc .....OK

Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile6.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile1.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile2.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile3.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile4.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile5.nc .....OK

Comparing RESTART/20210322.180000.fv\_tracer.res.tile6.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile1.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile2.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile3.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile4.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile5.nc .....OK

Comparing RESTART/20210322.180000.phy\_data.tile6.nc .....OK

Comparing RESTART/20210322.180000.sfc\_data.tile1.nc .....OK

Comparing RESTART/20210322.180000.sfc\_data.tile2.nc .....OK

Comparing RESTART/20210322.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 238.851747  
0: The maximum resident set size (KB) = 962412

Test 132 rap\_control\_dyn64\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_control\_debug\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_debug\_dyn32\_ph  
y32\_intel

Checking test 133 rap\_control\_debug\_dyn32\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 268.079706  
0: The maximum resident set size (KB) = 1071324

Test 133 rap\_control\_debug\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hrrr\_control\_debug\_dyn32\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_debug\_dyn32\_p  
hy32\_intel

Checking test 134 hrrr\_control\_debug\_dyn32\_phy32\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 263.174650  
0: The maximum resident set size (KB) = 1067928

Test 134 hrrr\_control\_debug\_dyn32\_phy32\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_control\_debug\_dyn64\_phy32\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_dyn64\_phy32\_de  
bug\_intel

Checking test 135 rap\_control\_dyn64\_phy32\_debug\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 273.680966

0: The maximum resident set size (KB) = 1094292

Test 135 rap\_control\_dyn64\_phy32\_debug\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hafs\_regional\_atm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_regional\_atm\_intel  
Checking test 136 hafs\_regional\_atm\_intel results ....  
Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing HURPRS.GrbF06 .....OK

0: The total amount of wall time = 227.957432

0: The maximum resident set size (KB) = 1071228

Test 136 hafs\_regional\_atm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hafs\_regional\_atm\_thompson\_gfdlsf\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_regional\_atm\_thompson  
\_gfdlsf\_intel  
Checking test 137 hafs\_regional\_atm\_thompson\_gfdlsf\_intel results ....  
Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK

0: The total amount of wall time = 367.757701

0: The maximum resident set size (KB) = 1395880

Test 137 hafs\_regional\_atm\_thompson\_gfdlsf\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hafs\_regional\_atm\_ocn\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_regional\_atm\_ocn\_inte  
l  
Checking test 138 hafs\_regional\_atm\_ocn\_intel results ....  
Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing archv.2019\_241\_06.a .....OK  
Comparing archs.2019\_241\_06.a .....OK  
Comparing ufs.hafs.cpl.hi.2019-08-29-21600.nc .....OK  
Comparing ufs.hafs.cpl.r.2019-08-29-21600.nc .....OK

0: The total amount of wall time = 375.836193

0: The maximum resident set size (KB) = 1247244

Test 138 hafs\_regional\_atm\_ocn\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hafs\_regional\_atm\_wav\_intel

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_atm_wav_intel
Checking test 139 hafs_regional_atm_wav_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing 20190829.060000.out_grd.wv3 .....OK
Comparing 20190829.060000.out_pnt.wv3 .....OK
Comparing ufs.hafs.wv3.r.2019-08-29-21600 .....OK
Comparing ufs.hafs.cpl.r.2019-08-29-21600.nc .....OK

0: The total amount of wall time = 746.961615
0: The maximum resident set size (KB) = 1269268
```

Test 139 hafs\_regional\_atm\_wav\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_atm_ocn_wav_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_atm_ocn_wav_
intel
Checking test 140 hafs_regional_atm_ocn_wav_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing archv.2019_241_06.a .....OK
Comparing archs.2019_241_06.a .....OK
Comparing 20190829.060000.out_grd.wv3 .....OK
Comparing 20190829.060000.out_pnt.wv3 .....OK
Comparing ufs.hafs.wv3.r.2019-08-29-21600 .....OK
Comparing ufs.hafs.cpl.r.2019-08-29-21600.nc .....OK

0: The total amount of wall time = 851.188253
0: The maximum resident set size (KB) = 1277024
```

Test 140 hafs\_regional\_atm\_ocn\_wav\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_1nest_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_1nest_atm_in
tel
Checking test 141 hafs_regional_1nest_atm_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing RESTART/20200825.180000.coupler.res .....OK
Comparing RESTART/20200825.180000.fv_core.res.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile1.nc .....OK
```

Comparing RESTART/20200825.180000.phy\_data.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest02.tile2.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest02.tile2.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest02.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest02.nc .....OK

0: The total amount of wall time = 304.474302  
0: The maximum resident set size (KB) = 522360

Test 141 hafs\_regional\_lnest\_atm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hafs\_regional\_lnest\_atm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_regional\_lnest\_atm\_qr  
\_intel

Checking test 142 hafs\_regional\_lnest\_atm\_qr\_intel results ....

Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atm.nest02.f006.nc .....OK  
Comparing sfc.nest02.f006.nc .....OK  
Comparing RESTART/20200825.180000.coupler.res .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest02.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest02.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest02.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_tracer.res.nest02.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nc .....ALT CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nest02.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nc .....ALT CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest02.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/fv\_BC\_ne.res.nest02.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest02.nc .....OK

0: The total amount of wall time = 316.731545  
0: The maximum resident set size (KB) = 492768

Test 142 hafs\_regional\_lnest\_atm\_qr\_intel PASS



baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/hafs\_regional\_telescopic\_2nests\_atm\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_regional\_telescopic\_2nests\_atm\_intel

Checking test 143 hafs\_regional\_telescopic\_2nests\_atm\_intel results ....

Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atm.nest02.f006.nc .....OK  
Comparing sfc.nest02.f006.nc .....OK  
Comparing atm.nest03.f006.nc .....OK  
Comparing sfc.nest03.f006.nc .....OK

0: The total amount of wall time = 346.568135  
0: The maximum resident set size (KB) = 523748

Test 143 hafs\_regional\_telescopic\_2nests\_atm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/hafs\_global\_1nest\_atm\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_global\_1nest\_atm\_intel

Checking test 144 hafs\_global\_1nest\_atm\_intel results ....

Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atm.nest02.f006.nc .....OK  
Comparing sfc.nest02.f006.nc .....OK  
Comparing RESTART/20200825.180000.coupler.res .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest02.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile3.nc .....OK

Comparing RESTART/20200825.180000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest02.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest02.nc .....OK

0: The total amount of wall time = 142.301591  
0: The maximum resident set size (KB) = 361344

Test 144 hafs\_global\_lnest\_atm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hafs\_global\_lnest\_atm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_global\_lnest\_atm\_qr\_i  
ntel

Checking test 145 hafs\_global\_lnest\_atm\_qr\_intel results ....  
Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atm.nest02.f006.nc .....OK  
Comparing sfc.nest02.f006.nc .....OK  
Comparing RESTART/20200825.180000.coupler.res .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest02.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile3.nc .....ALT  
CHECK.....OK

```

Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile6.nc .....ALT
CHECK.....OK
Comparing
RESTART/20200825.180000.fv_tracer.res.nest02.tile7.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.nest02.tile7.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.nest02.tile7.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/fv_BC_ne.res.nest02.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest02.nc .....OK

```

```

0: The total amount of wall time           = 152.190177
0: The maximum resident set size (KB)     = 365316

```

Test 145 hafs\_global\_lnest\_atm\_qr\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hafs_global_multiple_4nests_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_global_multiple_4nest
s_atm_intel
Checking test 146 hafs_global_multiple_4nests_atm_intel results ....
Comparing atmF006.nc .....OK
Comparing sfcF006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing atm.nest03.f006.nc .....OK
Comparing sfc.nest03.f006.nc .....OK
Comparing atm.nest04.f006.nc .....OK
Comparing sfc.nest04.f006.nc .....OK
Comparing atm.nest05.f006.nc .....OK
Comparing sfc.nest05.f006.nc .....OK
Comparing HURPRS.GrbF06 .....OK
Comparing HURPRS.GrbF06.nest02 .....OK
Comparing HURPRS.GrbF06.nest03 .....OK
Comparing HURPRS.GrbF06.nest04 .....OK
Comparing HURPRS.GrbF06.nest05 .....OK
Comparing RESTART/20200825.180000.coupler.res .....OK
Comparing RESTART/20200825.180000.fv_core.res.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.tile7.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest03.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest03.tile8.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest04.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest04.tile9.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest05.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest05.tile10.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.nest02.tile7.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.nest03.tile8.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.nest04.tile9.nc .....OK
Comparing
RESTART/20200825.180000.fv_srf_wnd.res.nest05.tile10.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest02.tile7.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest03.tile8.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest04.tile9.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest05.tile10.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile4.nc .....OK
```

Comparing RESTART/20200825.180000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest03.tile8.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest04.tile9.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.nest05.tile10.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20200825.180000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest02.tile7.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest03.tile8.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest04.tile9.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest05.tile10.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest02.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest03.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest04.nc .....OK  
Comparing RESTART/fv\_BC\_ne.res.nest05.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest02.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest03.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest04.nc .....OK  
Comparing RESTART/fv\_BC\_sw.res.nest05.nc .....OK

0: The total amount of wall time = 393.819651  
0: The maximum resident set size (KB) = 469244

Test 146 hafs\_global\_multiple\_4nests\_atm\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3gfs/develop-  
20230804/hafs\_global\_multiple\_4nests\_atm\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hafs\_global\_multiple\_4nest  
s\_atm\_qr\_intel

Checking test 147 hafs\_global\_multiple\_4nests\_atm\_qr\_intel results ....

Comparing atmf006.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atm.nest02.f006.nc .....OK  
Comparing sfc.nest02.f006.nc .....OK  
Comparing atm.nest03.f006.nc .....OK  
Comparing sfc.nest03.f006.nc .....OK  
Comparing atm.nest04.f006.nc .....OK  
Comparing sfc.nest04.f006.nc .....OK  
Comparing atm.nest05.f006.nc .....OK  
Comparing sfc.nest05.f006.nc .....OK  
Comparing HURPRS.GrbF06 .....OK  
Comparing HURPRS.GrbF06.nest02 .....OK  
Comparing HURPRS.GrbF06.nest03 .....OK  
Comparing HURPRS.GrbF06.nest04 .....OK

Comparing HURPRS.GrbF06.nest05 .....OK  
Comparing RESTART/20200825.180000.coupler.res .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest02.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest03.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest03.tile8.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest04.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest04.tile9.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.nest05.nc .....OK  
Comparing  
RESTART/20200825.180000.fv\_core.res.nest05.tile10.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_core.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest03.tile8.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest04.tile9.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_srf\_wnd.res.nest05.tile10.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_srf\_wnd.res.tile6.nc .....ALT  
CHECK.....OK

Comparing  
RESTART/20200825.180000.fv\_tracer.res.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_tracer.res.nest03.tile8.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_tracer.res.nest04.tile9.nc .....ALT  
CHECK.....OK  
Comparing  
RESTART/20200825.180000.fv\_tracer.res.nest05.tile10.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.fv\_tracer.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nest03.tile8.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nest04.tile9.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.nest05.tile10.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.phy\_data.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest02.tile7.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest03.tile8.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest04.tile9.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.nest05.tile10.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20200825.180000.sfc\_data.tile2.nc .....ALT  
CHECK.....OK

```
Comparing RESTART/20200825.180000.sfc_data.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/fv_BC_ne.res.nest02.nc .....OK
Comparing RESTART/fv_BC_ne.res.nest03.nc .....OK
Comparing RESTART/fv_BC_ne.res.nest04.nc .....OK
Comparing RESTART/fv_BC_ne.res.nest05.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest02.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest03.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest04.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest05.nc .....OK
```

```
0: The total amount of wall time           = 442.139892
0: The maximum resident set size (KB)      = 478540
```

Test 147 hafs\_global\_multiple\_4nests\_atm\_qr\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_specified_moving_lnest_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_specified_moving_lnest_atm_intel
Checking test 148 hafs_regional_specified_moving_lnest_atm_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing HURPRS.GrbF06 .....OK
Comparing HURPRS.GrbF06.nest02 .....OK
```

```
0: The total amount of wall time           = 194.838018
0: The maximum resident set size (KB)      = 524808
```

Test 148 hafs\_regional\_specified\_moving\_lnest\_atm\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_storm_following_lnest_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_storm_following_lnest_atm_intel
Checking test 149 hafs_regional_storm_following_lnest_atm_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing RESTART/20200825.180000.coupler.res .....OK
Comparing RESTART/20200825.180000.fv_core.res.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.tile1.nc .....OK
```



```
Comparing RESTART/20200825.180000.fv_srf_wnd.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20200825.180000.phy_data.nc .....OK
Comparing RESTART/20200825.180000.phy_data.nest02.tile2.nc .....OK
Comparing RESTART/20200825.180000.sfc_data.nc .....OK
Comparing RESTART/20200825.180000.sfc_data.nest02.tile2.nc .....OK
Comparing RESTART/fv_BC_ne.res.nest02.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest02.nc .....OK
```

```
0: The total amount of wall time = 182.321831
0: The maximum resident set size (KB) = 527892
```

Test 149 hafs\_regional\_storm\_following\_lnest\_atm\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hafs_regional_storm_following_lnest_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_storm_follow
ing_lnest_atm_qr_intel
```

```
Checking test 150 hafs_regional_storm_following_lnest_atm_qr_intel
results ....
```

```
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing RESTART/20200825.180000.coupler.res .....OK
Comparing RESTART/20200825.180000.fv_core.res.nc .....OK
Comparing RESTART/20200825.180000.fv_core.res.nest02.nc .....OK
Comparing
RESTART/20200825.180000.fv_core.res.nest02.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_core.res.tile1.nc .....ALT
CHECK.....OK
Comparing
RESTART/20200825.180000.fv_srf_wnd.res.nest02.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing
RESTART/20200825.180000.fv_tracer.res.nest02.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.fv_tracer.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.nc .....ALT CHECK.....OK
Comparing RESTART/20200825.180000.phy_data.nest02.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.nc .....ALT CHECK.....OK
Comparing RESTART/20200825.180000.sfc_data.nest02.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/fv_BC_ne.res.nest02.nc .....OK
Comparing RESTART/fv_BC_sw.res.nest02.nc .....OK
```

```
0: The total amount of wall time = 205.636520
0: The maximum resident set size (KB) = 520912
```

Test 150 hafs\_regional\_storm\_following\_1nest\_atm\_qr\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_storm_following_1nest_atm_ocn_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_storm_follow
ing_1nest_atm_ocn_intel
Checking test 151 hafs_regional_storm_following_1nest_atm_ocn_intel
results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing archv.2020_238_18.a .....OK
Comparing archs.2020_238_18.a .....OK

0: The total amount of wall time           = 221.313756
0: The maximum resident set size (KB)     = 569208
```

Test 151 hafs\_regional\_storm\_following\_1nest\_atm\_ocn\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_global_storm_following_1nest_atm_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_global_storm_followin
g_1nest_atm_intel
Checking test 152 hafs_global_storm_following_1nest_atm_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK

0: The total amount of wall time           = 56.819957
0: The maximum resident set size (KB)     = 374712
```

Test 152 hafs\_global\_storm\_following\_1nest\_atm\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_storm_following_1nest_atm_ocn_debug_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_storm_follow
ing_1nest_atm_ocn_debug_intel
Checking test 153 hafs_regional_storm_following_1nest_atm_ocn_debug_intel
results ....
Comparing atmf001.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atm.nest02.f001.nc .....OK
Comparing sfc.nest02.f001.nc .....OK

0: The total amount of wall time           = 723.598786
0: The maximum resident set size (KB)     = 598320
```

Test 153 hafs\_regional\_storm\_following\_1nest\_atm\_ocn\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_storm_following_lnest_atm_ocn_wav_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_storm_follow
ing_lnest_atm_ocn_wav_intel
Checking test 154 hafs_regional_storm_following_lnest_atm_ocn_wav_intel
results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atm.nest02.f006.nc .....OK
Comparing sfc.nest02.f006.nc .....OK
Comparing archv.2020_238_18.a .....OK
Comparing archs.2020_238_18.a .....OK
Comparing 20200825.180000.out_grd.wv3 .....OK
Comparing 20200825.180000.out_pnt.wv3 .....OK

0: The total amount of wall time                = 478.253155
0: The maximum resident set size (KB)          = 710316
```

Test 154 hafs\_regional\_storm\_following\_lnest\_atm\_ocn\_wav\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_docn_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_docn_intel
Checking test 155 hafs_regional_docn_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing ufs.hafs.cpl.hi.2019-08-29-21600.nc .....OK
Comparing ufs.hafs.cpl.r.2019-08-29-21600.nc .....OK
Comparing ufs.hafs.docn.r.2019-08-29-21600.nc .....OK

0: The total amount of wall time                = 343.936598
0: The maximum resident set size (KB)          = 1258788
```

Test 155 hafs\_regional\_docn\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_docn_oisst_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_docn_oisst_i
ntel
Checking test 156 hafs_regional_docn_oisst_intel results ....
Comparing atmf006.nc .....OK
Comparing sfcf006.nc .....OK
Comparing ufs.hafs.cpl.hi.2019-08-29-21600.nc .....OK
Comparing ufs.hafs.cpl.r.2019-08-29-21600.nc .....OK
Comparing ufs.hafs.docn.r.2019-08-29-21600.nc .....OK

0: The total amount of wall time                = 346.710845
0: The maximum resident set size (KB)          = 1245292
```

Test 156 hafs\_regional\_docn\_oisst\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hafs_regional_datm_cdeps_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hafs_regional_datm_cdeps_i
ntel
Checking test 157 hafs_regional_datm_cdeps_intel results ....
Comparing ufs.hafs.cpl.hi.2019-08-30-00000.nc .....OK
Comparing ufs.hafs.cpl.r.2019-08-30-00000.nc .....OK
Comparing ufs.hafs.datm.r.2019-08-30-00000.nc .....OK

0: The total amount of wall time                = 944.919159
0: The maximum resident set size (KB)           = 1208172
```

Test 157 hafs\_regional\_datm\_cdeps\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_control_cfsr_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_control_cfsr_in
tel
Checking test 158 datm_cdeps_control_cfsr_intel results ....
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2011-10-02-00000.nc .....OK
Comparing RESTART/DATM_CFSR.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time                = 152.625807
0: The maximum resident set size (KB)           = 1106400
```

Test 158 datm\_cdeps\_control\_cfsr\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_control_gefs_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_control_gefs_in
tel
Checking test 160 datm_cdeps_control_gefs_intel results ....
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2011-10-02-00000.nc .....OK
Comparing RESTART/DATM_GEFS_NEW.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time                = 147.872246
0: The maximum resident set size (KB)           = 989648
```

Test 160 datm\_cdeps\_control\_gefs\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_iau_gefs_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_iau_gefs_intel
Checking test 161 datm_cdeps_iau_gefs_intel results ....
```

Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT  
OK

Comparing RESTART/iced.2011-10-02-00000.nc .....OK

Comparing RESTART/DATM\_GEFS\_NEW.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 152.074712

0: The maximum resident set size (KB) = 989328

Test 161 datm\_cdeps\_iau\_gefs\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_stochy\_gefs\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_stochy\_gefs\_intel

Checking test 162 datm\_cdeps\_stochy\_gefs\_intel results ....

Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT  
OK

Comparing RESTART/iced.2011-10-02-00000.nc .....OK

Comparing RESTART/DATM\_GEFS\_NEW.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 151.608198

0: The maximum resident set size (KB) = 994568

Test 162 datm\_cdeps\_stochy\_gefs\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_ciceC\_cfsr\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_ciceC\_cfsr\_intel

Checking test 163 datm\_cdeps\_ciceC\_cfsr\_intel results ....

Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT  
OK

Comparing RESTART/iced.2011-10-02-00000.nc .....OK

Comparing RESTART/DATM\_CFSR.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 156.715523

0: The maximum resident set size (KB) = 1085948

Test 163 datm\_cdeps\_ciceC\_cfsr\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_bulk\_cfsr\_intel

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_bulk\_cfsr\_intel

Checking test 164 datm\_cdeps\_bulk\_cfsr\_intel results ....

Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT  
OK

Comparing RESTART/iced.2011-10-02-00000.nc .....OK

Comparing RESTART/DATM\_CFSR.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 150.669320

0: The maximum resident set size (KB) = 1097804

Test 164 datm\_cdeps\_bulk\_cfsr\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_bulk_gefs_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_bulk_gefs_intel
Checking test 165 datm_cdeps_bulk_gefs_intel results ....
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2011-10-02-00000.nc .....OK
Comparing RESTART/DATM_GEF5_NEW.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time           = 144.982261
0: The maximum resident set size (KB)      = 989424
```

Test 165 datm\_cdeps\_bulk\_gefs\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_mx025_cfsr_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_mx025_cfsr_inte
l
Checking test 166 datm_cdeps_mx025_cfsr_intel results ....
Comparing RESTART/20111001.120000.MOM.res.nc .....OK
Comparing RESTART/20111001.120000.MOM.res_1.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/20111001.120000.MOM.res_2.nc .....OK
Comparing RESTART/20111001.120000.MOM.res_3.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/iced.2011-10-01-43200.nc .....OK
Comparing RESTART/DATM_CFSR.cpl.r.2011-10-01-43200.nc .....OK

0: The total amount of wall time           = 432.616096
0: The maximum resident set size (KB)      = 1007516
```

Test 166 datm\_cdeps\_mx025\_cfsr\_intel FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/datm_cdeps_mx025_gefs_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_mx025_gefs_inte
l
Checking test 167 datm_cdeps_mx025_gefs_intel results ....
Comparing RESTART/20111001.120000.MOM.res.nc .....OK
Comparing RESTART/20111001.120000.MOM.res_1.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/20111001.120000.MOM.res_2.nc .....OK
Comparing RESTART/20111001.120000.MOM.res_3.nc .....ALT
CHECK.....NOT OK
Comparing RESTART/iced.2011-10-01-43200.nc .....OK
Comparing RESTART/DATM_GEF5_NEW.cpl.r.2011-10-01-43200.nc .....OK

0: The total amount of wall time           = 407.011972
```

0: The maximum resident set size (KB) = 1002692

Test 167 datm\_cdeps\_mx025\_gefs\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/datm\_cdeps\_control\_cfsr\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_multiple\_files\_cfsr\_intel  
Checking test 168 datm\_cdeps\_multiple\_files\_cfsr\_intel results ....  
Comparing RESTART/DATM\_CFSR.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 155.052130  
0: The maximum resident set size (KB) = 1106960

Test 168 datm\_cdeps\_multiple\_files\_cfsr\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/datm\_cdeps\_3072x1536\_cfsr\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_3072x1536\_cfsr\_intel  
Checking test 169 datm\_cdeps\_3072x1536\_cfsr\_intel results ....  
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT OK  
Comparing RESTART/iced.2011-10-02-00000.nc .....OK  
Comparing RESTART/DATM\_CFSR3072x1536.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 231.860563  
0: The maximum resident set size (KB) = 2446072

Test 169 datm\_cdeps\_3072x1536\_cfsr\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/datm\_cdeps\_gfs\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_gfs\_intel  
Checking test 170 datm\_cdeps\_gfs\_intel results ....  
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT OK  
Comparing RESTART/iced.2021-03-23-21600.nc .....OK  
Comparing RESTART/DATM\_GFS.cpl.r.2021-03-23-21600.nc .....OK

0: The total amount of wall time = 232.573313  
0: The maximum resident set size (KB) = 2395804

Test 170 datm\_cdeps\_gfs\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/datm\_cdeps\_debug\_cfsr\_intel  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_debug\_cfsr\_intel  
1

Checking test 171 datm\_cdeps\_debug\_cfsr\_intel results ....  
Comparing RESTART/20111001.060000.MOM.res.nc .....ALT CHECK.....NOT  
OK  
Comparing RESTART/iced.2011-10-01-21600.nc .....OK  
Comparing RESTART/DATM\_CFSR.cpl.r.2011-10-01-21600.nc .....OK

0: The total amount of wall time = 363.176961  
0: The maximum resident set size (KB) = 1027404

Test 171 datm\_cdeps\_debug\_cfsr\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_control\_cfsr\_faster\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_control\_cfsr\_fa  
ster\_intel  
Checking test 172 datm\_cdeps\_control\_cfsr\_faster\_intel results ....  
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT  
OK  
Comparing RESTART/iced.2011-10-02-00000.nc .....OK  
Comparing RESTART/DATM\_CFSR.cpl.r.2011-10-02-00000.nc .....OK

0: The total amount of wall time = 152.699437  
0: The maximum resident set size (KB) = 1102684

Test 172 datm\_cdeps\_control\_cfsr\_faster\_intel FAIL Tries: 2

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_lnd\_gswp3\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_lnd\_gswp3\_intel  
Checking test 173 datm\_cdeps\_lnd\_gswp3\_intel results ....  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile1.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile2.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile3.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile4.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile5.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile6.nc .....OK

0: The total amount of wall time = 8.978247  
0: The maximum resident set size (KB) = 247052

Test 173 datm\_cdeps\_lnd\_gswp3\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/datm\_cdeps\_lnd\_gswp3\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/datm\_cdeps\_lnd\_gswp3\_rst\_i  
ntel  
Checking test 174 datm\_cdeps\_lnd\_gswp3\_rst\_intel results ....  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile1.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile2.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile3.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile4.nc .....OK



Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile5.nc .....OK  
Comparing ufs.cpld.lnd.out.2000-01-02-00000.tile6.nc .....OK

0: The total amount of wall time = 10.623403  
0: The maximum resident set size (KB) = 244616

Test 174 datm\_cdeps\_lnd\_gswp3\_rst\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_p8\_atmlnd\_sbs\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_p8\_atmlnd\_sbs\_inte  
l

Checking test 175 control\_p8\_atmlnd\_sbs\_intel results ....

Comparing sfcf000.tile1.nc .....OK  
Comparing sfcf000.tile2.nc .....OK  
Comparing sfcf000.tile3.nc .....OK  
Comparing sfcf000.tile4.nc .....OK  
Comparing sfcf000.tile5.nc .....OK  
Comparing sfcf000.tile6.nc .....OK  
Comparing sfcf021.tile1.nc .....OK  
Comparing sfcf021.tile2.nc .....OK  
Comparing sfcf021.tile3.nc .....OK  
Comparing sfcf021.tile4.nc .....OK  
Comparing sfcf021.tile5.nc .....OK  
Comparing sfcf021.tile6.nc .....OK  
Comparing sfcf024.tile1.nc .....OK  
Comparing sfcf024.tile2.nc .....OK  
Comparing sfcf024.tile3.nc .....OK  
Comparing sfcf024.tile4.nc .....OK  
Comparing sfcf024.tile5.nc .....OK  
Comparing sfcf024.tile6.nc .....OK  
Comparing atmf000.tile1.nc .....OK  
Comparing atmf000.tile2.nc .....OK  
Comparing atmf000.tile3.nc .....OK  
Comparing atmf000.tile4.nc .....OK  
Comparing atmf000.tile5.nc .....OK  
Comparing atmf000.tile6.nc .....OK  
Comparing atmf021.tile1.nc .....OK  
Comparing atmf021.tile2.nc .....OK  
Comparing atmf021.tile3.nc .....OK  
Comparing atmf021.tile4.nc .....OK  
Comparing atmf021.tile5.nc .....OK  
Comparing atmf021.tile6.nc .....OK  
Comparing atmf024.tile1.nc .....OK  
Comparing atmf024.tile2.nc .....OK  
Comparing atmf024.tile3.nc .....OK  
Comparing atmf024.tile4.nc .....OK  
Comparing atmf024.tile5.nc .....OK  
Comparing atmf024.tile6.nc .....OK  
Comparing RESTART/20210323.060000.coupler.res .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK

Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK  
Comparing ufs.cpld.cpl.hi.lnd.2021-03-22-43200.nc .....OK  
Comparing ufs.cpld.cpl.hi.lnd.2021-03-23-21600.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile1.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile2.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile3.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile4.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile5.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-22-43200.tile6.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile1.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile2.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile3.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile4.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile5.nc .....OK  
Comparing ufs.cpld.lnd.out.2021-03-23-21600.tile6.nc .....OK

0: The total amount of walltime = 205.683554  
0: The maximum resident set size (KB) = 1608096

Test 175 control\_p8\_atmlnd\_sbs\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/atmwav\_control\_noaero\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/atmwav\_control\_noaero\_p8\_i  
ntel

Checking test 176 atmwav\_control\_noaero\_p8\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK

Comparing RESTART/20210322.180000.coupler.res .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile6.nc .....OK  
Comparing RESTART/ufs.atmw.cpl.r.2021-03-22-64800.nc .....OK  
Comparing 20210322.180000.out\_pnt.wv3 .....OK  
Comparing 20210322.180000.out\_grd.wv3 .....OK  
Comparing ufs.atmw.wv3.r.2021-03-22-64800 .....OK

0: The total amount of wall time = 96.112701  
0: The maximum resident set size (KB) = 1637484

Test 176 atmwav\_control\_noaero\_p8\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_atmwav\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_atmwav\_intel  
Checking test 177 control\_atmwav\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.180000.coupler.res .....OK

Comparing RESTART/20210322.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile6.nc .....OK  
Comparing 20210322.180000.restart.glo\_1deg .....OK

0: The total amount of wall time = 89.244739  
0: The maximum resident set size (KB) = 640332

Test 177 control\_atmwav\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/atmaero\_control\_p8\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/atmaero\_control\_p8\_intel  
Checking test 178 atmaero\_control\_p8\_intel results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....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

0: The total amount of wall time = 230.838036  
0: The maximum resident set size (KB) = 2995612

Test 178 atmaero\_control\_p8\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3gfs/develop-  
20230804/atmaero\_control\_p8\_rad\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/atmaero\_control\_p8\_rad\_intel

Checking test 179 atmaero\_control\_p8\_rad\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....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

0: The total amount of wall time = 282.514844  
0: The maximum resident set size (KB) = 3056308

Test 179 atmaero\_control\_p8\_rad\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/atmaero\_control\_p8\_rad\_micro\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/atmaero\_control\_p8\_rad\_mic  
ro\_intel

Checking test 180 atmaero\_control\_p8\_rad\_micro\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK  
Comparing gocart.inst\_aod.20210323\_0600z.nc4 .....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

0: The total amount of wall time = 285.361001  
0: The maximum resident set size (KB) = 3064508

Test 180 atmaero\_control\_p8\_rad\_micro\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/regional\_atmaq\_intel  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/regional\_atmaq\_intel  
Checking test 181 regional\_atmaq\_intel results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf003.nc .....OK  
Comparing sfcf006.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf003.nc .....OK  
Comparing atmf006.nc .....OK  
Comparing RESTART/20190801.180000.coupler.res .....OK  
Comparing RESTART/20190801.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20190801.180000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20190801.180000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20190801.180000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20190801.180000.phy\_data.nc .....OK  
Comparing RESTART/20190801.180000.sfc\_data.nc .....OK

0: The total amount of wall time = 653.723216  
0: The maximum resident set size (KB) = 2350040

Test 181 regional\_atmaq\_intel PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/regional\_atmaq\_debug\_intel

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_atmaq_debug_intel
Checking test 182 regional_atmaq_debug_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing RESTART/20190801.130000.coupler.res .....OK
Comparing RESTART/20190801.130000.fv_core.res.nc .....OK
Comparing RESTART/20190801.130000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20190801.130000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20190801.130000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20190801.130000.phy_data.nc .....OK
Comparing RESTART/20190801.130000.sfc_data.nc .....OK

0: The total amount of wall time = 1200.967714
0: The maximum resident set size (KB) = 2172184
```

Test 182 regional\_atmaq\_debug\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/regional_atmaq_faster_intel
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_atmaq_faster_intel
Checking test 183 regional_atmaq_faster_intel results ....
Comparing sfcf000.nc .....OK
Comparing sfcf003.nc .....OK
Comparing sfcf006.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf003.nc .....OK
Comparing atmf006.nc .....OK
Comparing RESTART/20190801.180000.coupler.res .....OK
Comparing RESTART/20190801.180000.fv_core.res.nc .....OK
Comparing RESTART/20190801.180000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20190801.180000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20190801.180000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20190801.180000.phy_data.nc .....OK
Comparing RESTART/20190801.180000.sfc_data.nc .....OK

0: The total amount of wall time = 574.521923
0: The maximum resident set size (KB) = 2363176
```

Test 183 regional\_atmaq\_faster\_intel PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_c48_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_c48_gnu
Checking test 184 control_c48_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
```



Comparing RESTART/20210323.060000.fv\_core.res.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210323.060000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210323.060000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 681.767236  
0: The maximum resident set size (KB) = 707720

Test 184 control\_c48\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_stochy\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_stochy\_gnu  
Checking test 185 control\_stochy\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 671.272768  
0: The maximum resident set size (KB) = 481292

Test 185 control\_stochy\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_ras_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_ras_gnu
Checking test 186 control_ras_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf024.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf024.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF24 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time                = 838.312983
0: The maximum resident set size (KB)          = 492792
```

Test 186 control\_ras\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/control_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_p8_gnu
Checking test 187 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

0: The total amount of wall time = 912.488317  
0: The maximum resident set size (KB) = 1238832

Test 187 control\_p8\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/control\_flake\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/control\_flake\_gnu  
Checking test 188 control\_flake\_gnu results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf024.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF24 .....OK

0: The total amount of wall time = 1576.256067  
0: The maximum resident set size (KB) = 533600

Test 188 control\_flake\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_control\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_gnu  
Checking test 189 rap\_control\_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

0: The total amount of wall time = 1473.777508  
0: The maximum resident set size (KB) = 831700

Test 189 rap\_control\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/rap\_control\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_decomp\_gnu

Checking test 190 rap\_decomp\_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

0: The total amount of wall time = 1459.112570  
0: The maximum resident set size (KB) = 834968

Test 190 rap\_decomp\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/rap\_control\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_2threads\_gnu  
Checking test 191 rap\_2threads\_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

0: The total amount of wall time = 1332.903712  
0: The maximum resident set size (KB) = 900000

Test 191 rap\_2threads\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3gfs/develop-20230804/rap\_control\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_restart\_gnu

Checking test 192 rap\_restart\_gnu results ....

Comparing sfcf024.nc .....OK  
Comparing atm024.nc .....OK  
Comparing GFSFLX.GrbF24 .....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

0: The total amount of wall time = 729.777447  
0: The maximum resident set size (KB) = 544920

Test 192 rap\_restart\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-20230804/rap\_sfcdiff\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_gnu

Checking test 193 rap\_sfcdiff\_gnu results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 1449.392801  
0: The maximum resident set size (KB) = 835168

Test 193 rap\_sfcdiff\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_sfcdiff\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_decomp\_gnu  
Checking test 194 rap\_sfcdiff\_decomp\_gnu results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 1451.882756  
0: The maximum resident set size (KB) = 832016

Test 194 rap\_sfcdiff\_decomp\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_sfcdiff\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_sfcdiff\_restart\_gnu  
Checking test 195 rap\_sfcdiff\_restart\_gnu results ....  
Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....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
```

```
0: The total amount of wall time = 1117.836309
0: The maximum resident set size (KB) = 556820
```

Test 195 rap\_sfcdiff\_restart\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hrrr_control_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_gnu
Checking test 196 hrrr_control_gnu results ....
```

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile3.nc .....OK
```

```
Comparing RESTART/20210322.120000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile6.nc .....OK
```

```
0: The total amount of wall time = 1436.876727
0: The maximum resident set size (KB) = 830728
```

Test 196 hrrr\_control\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_qr_gnu
Checking test 197 hrrr_control_qr_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....ALT
CHECK.....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....ALT
CHECK.....OK
```

Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....ALT  
CHECK.....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....ALT  
CHECK.....OK

0: The total amount of wall time = 1463.168071  
0: The maximum resident set size (KB) = 843892

Test 197 hrrr\_control\_qr\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_2threads\_gnu  
Checking test 198 hrrr\_control\_2threads\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK

```

Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....OK
Comparing RESTART/20210322.120000.coupler.res .....OK
Comparing RESTART/20210322.120000.fv_core.res.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.120000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.120000.sfc_data.tile6.nc .....OK

0: The total amount of wall time = 1495.613410
0: The maximum resident set size (KB) = 898904

```

Test 198 hrrr\_control\_2threads\_gnu PASS

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hrrr_control_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_decomp_gnu
Checking test 199 hrrr_control_decomp_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK

```

Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 1424.650000  
0: The maximum resident set size (KB) = 828168

Test 199 hrrr\_control\_decomp\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_gnu  
Checking test 200 hrrr\_control\_restart\_gnu results ....  
Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 1049.316770  
0: The maximum resident set size (KB) = 550232

Test 200 hrrr\_control\_restart\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_restart_qr_gn
u
```

Checking test 201 hrrr\_control\_restart\_qr\_gnu results ....

```
Comparing sfcf012.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF12 .....OK
```

```
0: The total amount of wall time           = 1071.669352
0: The maximum resident set size (KB)      = 571016
```

Test 201 hrrr\_control\_restart\_qr\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/rrfs_v1beta_gnu
working dir =
```

```
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_v1beta_gnu
```

Checking test 202 rrfs\_v1beta\_gnu results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF00 .....OK
Comparing GFSFLX.GrbF09 .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF00 .....OK
Comparing GFSPRS.GrbF09 .....OK
Comparing GFSPRS.GrbF12 .....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
```

```
0: The total amount of wall time = 1435.523388
0: The maximum resident set size (KB) = 831432
```

Test 202 rrfv\_vlbeta\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfv_smoke_conus13km_hrrr_warm_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfv_smoke_conus13km_hrrr_
warm_gnu
```

Checking test 203 rrfv\_smoke\_conus13km\_hrrr\_warm\_gnu results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK
Comparing RESTART/20210512.170000.coupler.res .....OK
Comparing RESTART/20210512.170000.fv_core.res.nc .....OK
Comparing RESTART/20210512.170000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.phy_data.nc .....OK
Comparing RESTART/20210512.170000.sfc_data.nc .....OK
```

```
0: The total amount of wall time = 808.046888
0: The maximum resident set size (KB) = 659920
```

Test 203 rrfv\_smoke\_conus13km\_hrrr\_warm\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfv_smoke_conus13km_hrrr_warm_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfv_smoke_conus13km_hrrr_
warm_qr_gnu
```

Checking test 204 rrfv\_smoke\_conus13km\_hrrr\_warm\_qr\_gnu results ....

```
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK
Comparing RESTART/20210512.170000.coupler.res .....OK
```



```
Comparing RESTART/20210512.170000.fv_core.res.nc .....OK
Comparing RESTART/20210512.170000.fv_core.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210512.170000.fv_srf_wnd.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210512.170000.fv_tracer.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210512.170000.phy_data.nc .....ALT CHECK.....OK
Comparing RESTART/20210512.170000.sfc_data.nc .....ALT CHECK.....OK

0: The total amount of wall time                = 832.976603
0: The maximum resident set size (KB)           = 615864
```

Test 204 rrf\_smoke\_conus13km\_hrrr\_warm\_qr\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrf_smoke_conus13km_hrrr_warm_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrf_smoke_conus13km_hrrr_
warm_2threads_gnu
Checking test 205 rrf_smoke_conus13km_hrrr_warm_2threads_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time                = 1004.059296
0: The maximum resident set size (KB)           = 658728
```

Test 205 rrf\_smoke\_conus13km\_hrrr\_warm\_2threads\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrf_smoke_conus13km_hrrr_warm_radar_tten_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrf_smoke_conus13km_radar_
_tten_warm_gnu
Checking test 206 rrf_smoke_conus13km_radar_tten_warm_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time                = 791.711983
0: The maximum resident set size (KB)           = 660844
```

Test 206 rrf\_smoke\_conus13km\_radar\_tten\_warm\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrf_conus13km_hrrr_warm_gnu
```

```
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_conus13km_hrrr_warm_g
nu
Checking test 207 rrfs_conus13km_hrrr_warm_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK
Comparing RESTART/20210512.170000.coupler.res .....OK
Comparing RESTART/20210512.170000.fv_core.res.nc .....OK
Comparing RESTART/20210512.170000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.phy_data.nc .....OK
Comparing RESTART/20210512.170000.sfc_data.nc .....OK

0: The total amount of wall time                = 786.128513
0: The maximum resident set size (KB)           = 643452
```

Test 207 rrfs\_conus13km\_hrrr\_warm\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_hrrr_
warm_restart_mismatch_gnu
Checking test 208 rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_gnu
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time                = 438.091766
0: The maximum resident set size (KB)           = 653748
```

Test 208 rrfs\_smoke\_conus13km\_hrrr\_warm\_restart\_mismatch\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_hrrr_warm_restart_mismatch_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_hrrr_
warm_restart_qr_mismatch_gnu
Checking test 209 rrfs_smoke_conus13km_hrrr_warm_restart_qr_mismatch_gnu
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK

0: The total amount of wall time                = 457.994173
0: The maximum resident set size (KB)           = 680392
```

Test 209 rrfs\_smoke\_conus13km\_hrrr\_warm\_restart\_qr\_mismatch\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_diag_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_diag_debug_gnu
Checking test 210 control_diag_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time = 123.518958
0: The maximum resident set size (KB) = 538836
```

Test 210 control\_diag\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/regional_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/regional_debug_gnu
Checking test 211 regional_debug_gnu results ....
Comparing dynf000.nc .....OK
Comparing dynf001.nc .....OK
Comparing phyf000.nc .....OK
Comparing phyf001.nc .....OK

0: The total amount of wall time = 685.317835
0: The maximum resident set size (KB) = 595740
```

Test 211 regional\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_control_debug_gnu
Checking test 212 rap_control_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time = 175.914956
0: The maximum resident set size (KB) = 850260
```

Test 212 rap\_control\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/hrrr_control_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_debug_gnu
Checking test 213 hrrr_control_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

0: The total amount of wall time = 167.628839  
0: The maximum resident set size (KB) = 842584

Test 213 hrrr\_control\_debug\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_diag\_debug\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_diag\_debug\_gnu  
Checking test 214 rap\_diag\_debug\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 208.560278  
0: The maximum resident set size (KB) = 923576

Test 214 rap\_diag\_debug\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_noah\_sfcdiff\_cires\_ugwp\_debug\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_noah\_sfcdiff\_cires\_ugwp\_debug\_gnu  
Checking test 215 rap\_noah\_sfcdiff\_cires\_ugwp\_debug\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 270.028829  
0: The maximum resident set size (KB) = 844100

Test 215 rap\_noah\_sfcdiff\_cires\_ugwp\_debug\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_progclد\_thompson\_debug\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_progclد\_thompson\_debug\_gnu  
Checking test 216 rap\_progclد\_thompson\_debug\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 175.603509  
0: The maximum resident set size (KB) = 852544

Test 216 rap\_progclد\_thompson\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_v1beta_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_v1beta_debug_gnu
Checking test 217 rrfs_v1beta_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time = 175.083808
0: The maximum resident set size (KB) = 843236
```

Test 217 rrfs\_v1beta\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_ras_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_ras_debug_gnu
Checking test 218 control_ras_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time = 101.876698
0: The maximum resident set size (KB) = 491360
```

Test 218 control\_ras\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_stochy_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_stochy_debug_gnu
Checking test 219 control_stochy_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK

0: The total amount of wall time = 116.431451
0: The maximum resident set size (KB) = 480332
```

Test 219 control\_stochy\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_debug_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_debug_p8_gnu
Checking test 220 control_debug_p8_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

0: The total amount of wall time = 117.211453  
0: The maximum resident set size (KB) = 1230908

Test 220 control\_debug\_p8\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_gnu

Checking test 221 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 599.934590  
0: The maximum resident set size (KB) = 673812

Test 221 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_2threads\_gnu

Checking test 222 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_2threads\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 778.441991  
0: The maximum resident set size (KB) = 679424

Test 222 rrfs\_smoke\_conus13km\_hrrr\_warm\_debug\_2threads\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rrfs\_conus13km\_hrrr\_warm\_debugs\_gnu  
working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rrfs\_conus13km\_hrrr\_warm\_debug\_gnu

Checking test 223 rrfs\_conus13km\_hrrr\_warm\_debug\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 584.131174  
0: The maximum resident set size (KB) = 659548

Test 223 rrfs\_conus13km\_hrrr\_warm\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_flake_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_flake_debug_gnu
Checking test 224 rap_flake_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 173.378765
0: The maximum resident set size (KB)      = 844332
```

Test 224 rap\_flake\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_clm_lake_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_clm_lake_debug_gnu
Checking test 225 rap_clm_lake_debug_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
```

```
0: The total amount of wall time           = 192.200865
0: The maximum resident set size (KB)      = 851932
```

Test 225 rap\_clm\_lake\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/control_wam_debug_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/control_wam_debug_gnu
Checking test 226 control_wam_debug_gnu results ....
Comparing sfcf019.nc .....OK
Comparing atmf019.nc .....OK
```

```
0: The total amount of wall time           = 187.608230
0: The maximum resident set size (KB)      = 197268
```

Test 226 control\_wam\_debug\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_dyn32_phy32_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_control_dyn32_phy32_gn
u
Checking test 227 rap_control_dyn32_phy32_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
```

Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 1464.247404  
0: The maximum resident set size (KB) = 693624

Test 227 rap\_control\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_dyn32\_phy32\_g  
nu

Checking test 228 hrrr\_control\_dyn32\_phy32\_gnu results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK



Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 751.063128  
0: The maximum resident set size (KB) = 688992

Test 228 hrrr\_control\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_qr\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_qr\_dyn32\_phy3  
2\_gnu

Checking test 229 hrrr\_control\_qr\_dyn32\_phy32\_gnu results ....

Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 756.786122  
0: The maximum resident set size (KB) = 697188

Test 229 hrrr\_control\_qr\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_2threads\_dyn32\_phy32\_g  
nu  
Checking test 230 rap\_2threads\_dyn32\_phy32\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 1333.283625  
0: The maximum resident set size (KB) = 740784

Test 230 rap\_2threads\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_2threads\_dyn3  
2\_phy32\_gnu  
Checking test 231 hrrr\_control\_2threads\_dyn32\_phy32\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 780.842623  
0: The maximum resident set size (KB) = 737492

Test 231 hrrr\_control\_2threads\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_decomp\_dyn32\_  
phy32\_gnu  
Checking test 232 hrrr\_control\_decomp\_dyn32\_phy32\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf009.nc .....OK  
Comparing sfcf012.nc .....OK

Comparing atmf000.nc .....OK  
Comparing atmf009.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.120000.coupler.res .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.120000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.120000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 746.198440  
0: The maximum resident set size (KB) = 690536

Test 232 hrrr\_control\_decomp\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSFV3GFS/develop-  
20230804/rap\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_restart\_dyn32\_phy32\_gn  
u

Checking test 233 rap\_restart\_dyn32\_phy32\_gnu results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK

Comparing GFSPRS.GrbF12 .....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

0: The total amount of wall time = 1069.556579  
0: The maximum resident set size (KB) = 518880

Test 233 rap\_restart\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-  
20230804/hrrr\_control\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_restart\_dyn32  
\_phy32\_gnu

Checking test 234 hrrr\_control\_restart\_dyn32\_phy32\_gnu results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time = 367.837750  
0: The maximum resident set size (KB) = 514424

Test 234 hrrr\_control\_restart\_dyn32\_phy32\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/hrrr_control_qr_dyn32_phy32_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/hrrr_control_restart_qr_dy
n32_phy32_gnu
Checking test 235 hrrr_control_restart_qr_dyn32_phy32_gnu results ....
Comparing sfcf012.nc .....OK
Comparing atmf012.nc .....OK
Comparing GFSFLX.GrbF12 .....OK
Comparing GFSPRS.GrbF12 .....OK

0: The total amount of wall time                = 373.677439
0: The maximum resident set size (KB)          = 537508
```

Test 235 hrrr\_control\_restart\_qr\_dyn32\_phy32\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/rrfs_smoke_conus13km_phy32_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_phy32
_gnu
Checking test 236 rrfs_smoke_conus13km_phy32_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK
Comparing RESTART/20210512.170000.coupler.res .....OK
Comparing RESTART/20210512.170000.fv_core.res.nc .....OK
Comparing RESTART/20210512.170000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.phy_data.nc .....OK
Comparing RESTART/20210512.170000.sfc_data.nc .....OK

0: The total amount of wall time                = 779.618663
0: The maximum resident set size (KB)          = 577552
```

Test 236 rrfs\_smoke\_conus13km\_phy32\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/rrfs_smoke_conus13km_phy32_qr_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_phy32
_qr_gnu
Checking test 237 rrfs_smoke_conus13km_phy32_qr_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf001.nc .....OK
Comparing sfcf002.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf001.nc .....OK
Comparing atmf002.nc .....OK
Comparing RESTART/20210512.170000.coupler.res .....OK
Comparing RESTART/20210512.170000.fv_core.res.nc .....OK
```

```
Comparing RESTART/20210512.170000.fv_core.res.tile1.nc .....ALT
CHECK.....OK
Comparing RESTART/20210512.170000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210512.170000.phy_data.nc .....ALT CHECK.....OK
Comparing RESTART/20210512.170000.sfc_data.nc .....OK
```

```
0: The total amount of wall time = 776.374726
0: The maximum resident set size (KB) = 579884
```

Test 237 rrf\_smoke\_conus13km\_phy32\_qr\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_phy32_restart_mismatch_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_phy32
_restart_mismatch_gnu
Checking test 238 rrf_smoke_conus13km_phy32_restart_mismatch_gnu
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK
```

```
0: The total amount of wall time = 390.041928
0: The maximum resident set size (KB) = 572796
```

Test 238 rrf\_smoke\_conus13km\_phy32\_restart\_mismatch\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rrfs_smoke_conus13km_phy32_restart_mismatch_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rrfs_smoke_conus13km_phy32
_restart_qr_mismatch_gnu
Checking test 239 rrf_smoke_conus13km_phy32_restart_qr_mismatch_gnu
results ....
Comparing sfcf002.nc .....OK
Comparing atmf002.nc .....OK
```

```
0: The total amount of wall time = 409.610797
0: The maximum resident set size (KB) = 605420
```

Test 239 rrf\_smoke\_conus13km\_phy32\_restart\_qr\_mismatch\_gnu PASS

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/rap_control_dyn64_phy32_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/rap_control_dyn64_phy32_gn
u
Checking test 240 rap_control_dyn64_phy32_gnu results ....
Comparing sfcf000.nc .....OK
Comparing sfcf009.nc .....OK
Comparing sfcf012.nc .....OK
Comparing atmf000.nc .....OK
Comparing atmf009.nc .....OK
Comparing atmf012.nc .....OK
```



Comparing GFSFLX.GrbF00 .....OK  
Comparing GFSFLX.GrbF09 .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF00 .....OK  
Comparing GFSPRS.GrbF09 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/20210322.180000.coupler.res .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_core.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/20210322.180000.fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.phy\_data.tile6.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile1.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile2.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile3.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile4.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile5.nc .....OK  
Comparing RESTART/20210322.180000.sfc\_data.tile6.nc .....OK

0: The total amount of wall time = 1067.219866  
0: The maximum resident set size (KB) = 708336

Test 240 rap\_control\_dyn64\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_control\_debug\_dyn32\_phy32\_gnu  
working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_debug\_dyn32\_phy32\_gnu

Checking test 241 rap\_control\_debug\_dyn32\_phy32\_gnu results ....  
Comparing sfcf000.nc .....OK  
Comparing sfcf001.nc .....OK  
Comparing atmf000.nc .....OK  
Comparing atmf001.nc .....OK

0: The total amount of wall time = 174.528296

0: The maximum resident set size (KB) = 701872

Test 241 rap\_control\_debug\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/hrrr\_control\_debug\_dyn32\_phy32\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/hrrr\_control\_debug\_dyn32\_phy32\_gnu

Checking test 242 hrrr\_control\_debug\_dyn32\_phy32\_gnu results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 164.746147

0: The maximum resident set size (KB) = 698496

Test 242 hrrr\_control\_debug\_dyn32\_phy32\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/rap\_control\_debug\_dyn64\_phy32\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/rap\_control\_dyn64\_phy32\_debug\_gnu

Checking test 243 rap\_control\_dyn64\_phy32\_debug\_gnu results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 203.178186

0: The maximum resident set size (KB) = 718736

Test 243 rap\_control\_dyn64\_phy32\_debug\_gnu PASS

baseline dir = /scratch2/NAGAPE/epic/UFS-WM\_RT/NEMSfv3gfs/develop-20230804/cpld\_control\_p8\_gnu

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_4248/cpld\_control\_p8\_gnu

Checking test 244 cpld\_control\_p8\_gnu results ....

Comparing sfcf021.tile1.nc .....OK

Comparing sfcf021.tile2.nc .....OK

Comparing sfcf021.tile3.nc .....OK

Comparing sfcf021.tile4.nc .....OK

Comparing sfcf021.tile5.nc .....OK

Comparing sfcf021.tile6.nc .....OK

Comparing atmf021.tile1.nc .....OK

Comparing atmf021.tile2.nc .....OK

Comparing atmf021.tile3.nc .....OK

Comparing atmf021.tile4.nc .....OK

Comparing atmf021.tile5.nc .....OK

Comparing atmf021.tile6.nc .....OK

Comparing sfcf024.tile1.nc .....OK

```

Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing gocart.inst_aod.20210323_0600z.nc4 .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 1900.432570
0: The maximum resident set size (KB)     = 1438148

```

Test 244 cpld\_control\_p8\_gnu FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_control_c96_noaero_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_nowave_noaero
_p8_gnu
Checking test 245 cpld_control_nowave_noaero_p8_gnu results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
```

```
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK

0: The total amount of wall time = 1212.715074
0: The maximum resident set size (KB) = 1333088
```

Test 245 cpld\_control\_nowave\_noaero\_p8\_gnu FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_debug_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_debug_p8_gnu
Checking test 246 cpld_debug_p8_gnu results ....
Comparing sfcf003.tile1.nc .....OK
Comparing sfcf003.tile2.nc .....OK
Comparing sfcf003.tile3.nc .....OK
Comparing sfcf003.tile4.nc .....OK
Comparing sfcf003.tile5.nc .....OK
Comparing sfcf003.tile6.nc .....OK
Comparing atmf003.tile1.nc .....OK
Comparing atmf003.tile2.nc .....OK
Comparing atmf003.tile3.nc .....OK
Comparing atmf003.tile4.nc .....OK
Comparing atmf003.tile5.nc .....OK
Comparing atmf003.tile6.nc .....OK
Comparing gocart.inst_aod.20210322_0900z.nc4 .....OK
Comparing RESTART/20210322.090000.coupler.res .....OK
Comparing RESTART/20210322.090000.fv_core.res.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile3.nc .....OK
```

```
Comparing RESTART/20210322.090000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-22-32400.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....OK
Comparing 20210322.090000.out_pnt.wv3 .....OK
Comparing 20210322.090000.out_grd.wv3 .....OK
```

```
0: The total amount of wall time = 859.556755
0: The maximum resident set size (KB) = 1444848
```

Test 246 cpld\_debug\_p8\_gnu FAIL Tries: 2

```
baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/cpld_control_pdlib_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_control_pdlib_p8_gnu
Checking test 247 cpld_control_pdlib_p8_gnu results ....
Comparing sfcf021.tile1.nc .....OK
Comparing sfcf021.tile2.nc .....OK
Comparing sfcf021.tile3.nc .....OK
Comparing sfcf021.tile4.nc .....OK
Comparing sfcf021.tile5.nc .....OK
Comparing sfcf021.tile6.nc .....OK
Comparing atmf021.tile1.nc .....OK
Comparing atmf021.tile2.nc .....OK
Comparing atmf021.tile3.nc .....OK
Comparing atmf021.tile4.nc .....OK
Comparing atmf021.tile5.nc .....OK
Comparing atmf021.tile6.nc .....OK
Comparing sfcf024.tile1.nc .....OK
Comparing sfcf024.tile2.nc .....OK
Comparing sfcf024.tile3.nc .....OK
Comparing sfcf024.tile4.nc .....OK
Comparing sfcf024.tile5.nc .....OK
Comparing sfcf024.tile6.nc .....OK
Comparing atmf024.tile1.nc .....OK
Comparing atmf024.tile2.nc .....OK
Comparing atmf024.tile3.nc .....OK
Comparing atmf024.tile4.nc .....OK
Comparing atmf024.tile5.nc .....OK
Comparing atmf024.tile6.nc .....OK
Comparing RESTART/20210323.060000.coupler.res .....OK
Comparing RESTART/20210323.060000.fv_core.res.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile4.nc .....OK
```

```

Comparing RESTART/20210323.060000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210323.060000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.phy_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210323.060000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210323.060000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-23-21600.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....OK
Comparing 20210323.060000.out_pnt.wv3 .....OK
Comparing 20210323.060000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 1737.049087
0: The maximum resident set size (KB)     = 1303788

```

Test 247 cpld\_control\_pdlib\_p8\_gnu FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSfv3gfs/develop-
20230804/cpld_debug_pdlib_p8_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/cpld_debug_pdlib_p8_gnu
Checking test 248 cpld_debug_pdlib_p8_gnu results ....
Comparing sfcf003.tile1.nc .....OK
Comparing sfcf003.tile2.nc .....OK
Comparing sfcf003.tile3.nc .....OK
Comparing sfcf003.tile4.nc .....OK
Comparing sfcf003.tile5.nc .....OK
Comparing sfcf003.tile6.nc .....OK
Comparing atmf003.tile1.nc .....OK
Comparing atmf003.tile2.nc .....OK
Comparing atmf003.tile3.nc .....OK
Comparing atmf003.tile4.nc .....OK
Comparing atmf003.tile5.nc .....OK
Comparing atmf003.tile6.nc .....OK
Comparing RESTART/20210322.090000.coupler.res .....OK

```

```

Comparing RESTART/20210322.090000.fv_core.res.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_core.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_srf_wnd.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile1.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile2.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile3.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile4.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile5.nc .....OK
Comparing RESTART/20210322.090000.fv_tracer.res.tile6.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.phy_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile1.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile2.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile3.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile4.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile5.nc .....OK
Comparing RESTART/20210322.090000.sfc_data.tile6.nc .....OK
Comparing RESTART/20210322.090000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2021-03-22-32400.nc .....OK
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....OK
Comparing 20210322.090000.out_pnt.wv3 .....OK
Comparing 20210322.090000.out_grd.wv3 .....OK

```

```

0: The total amount of wall time           = 898.444814
0: The maximum resident set size (KB)     = 1305536

```

Test 248 cpld\_debug\_pdlib\_p8\_gnu FAIL Tries: 2

```

baseline dir = /scratch2/NAGAPE/epic/UFS-WM_RT/NEMSFV3GFS/develop-
20230804/datm_cdeps_control_cfsr_gnu
working dir =
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3_RT/rt_4248/datm_cdeps_control_cfsr_gn
u

```

```

Checking test 249 datm_cdeps_control_cfsr_gnu results ....
Comparing RESTART/20111002.000000.MOM.res.nc .....ALT CHECK.....NOT
OK
Comparing RESTART/iced.2011-10-02-00000.nc .....OK
Comparing RESTART/DATM_CFSR.cpl.r.2011-10-02-00000.nc .....OK

```

```

0: The total amount of wall time           = 176.279914
0: The maximum resident set size (KB)     = 671624

```



Test 249 datm\_cdeps\_control\_cfsr\_gnu FAIL Tries: 2

FAILED TESTS:

001 cpld\_control\_p8\_mixedmode\_intel failed in check\_result  
cpld\_control\_p8\_mixedmode\_intel 001 failed in run\_test  
002 cpld\_control\_gfsv17\_intel failed in check\_result  
cpld\_control\_gfsv17\_intel 002 failed in run\_test  
003 cpld\_control\_p8\_intel failed in check\_result  
cpld\_control\_p8\_intel 003 failed in run\_test  
005 cpld\_control\_qr\_p8\_intel failed in check\_result  
cpld\_control\_qr\_p8\_intel 005 failed in run\_test  
007 cpld\_2threads\_p8\_intel failed in check\_result  
cpld\_2threads\_p8\_intel 007 failed in run\_test  
008 cpld\_decomp\_p8\_intel failed in check\_result  
cpld\_decomp\_p8\_intel 008 failed in run\_test  
009 cpld\_mpi\_p8\_intel failed in check\_result  
cpld\_mpi\_p8\_intel 009 failed in run\_test  
010 cpld\_control\_ciceC\_p8\_intel failed in check\_result  
cpld\_control\_ciceC\_p8\_intel 010 failed in run\_test  
011 cpld\_control\_c192\_p8\_intel failed in check\_result  
cpld\_control\_c192\_p8\_intel 011 failed in run\_test  
013 cpld\_bmark\_p8\_intel failed in check\_result  
cpld\_bmark\_p8\_intel 013 failed in run\_test  
015 cpld\_control\_noaero\_p8\_intel failed in check\_result  
cpld\_control\_noaero\_p8\_intel 015 failed in run\_test  
016 cpld\_control\_nowave\_noaero\_p8\_intel failed in check\_result  
cpld\_control\_nowave\_noaero\_p8\_intel 016 failed in run\_test  
017 cpld\_debug\_p8\_intel failed in check\_result  
cpld\_debug\_p8\_intel 017 failed in run\_test  
018 cpld\_debug\_noaero\_p8\_intel failed in check\_result  
cpld\_debug\_noaero\_p8\_intel 018 failed in run\_test  
019 cpld\_control\_noaero\_p8\_agrid\_intel failed in check\_result  
cpld\_control\_noaero\_p8\_agrid\_intel 019 failed in run\_test  
020 cpld\_control\_c48\_intel failed in check\_result  
cpld\_control\_c48\_intel 020 failed in run\_test  
021 cpld\_control\_p8\_faster\_intel failed in check\_result  
cpld\_control\_p8\_faster\_intel 021 failed in run\_test  
022 cpld\_control\_pdlib\_p8\_intel failed in check\_result  
cpld\_control\_pdlib\_p8\_intel 022 failed in run\_test  
025 cpld\_debug\_pdlib\_p8\_intel failed in check\_result  
cpld\_debug\_pdlib\_p8\_intel 025 failed in run\_test  
158 datm\_cdeps\_control\_cfsr\_intel failed in check\_result  
datm\_cdeps\_control\_cfsr\_intel 158 failed in run\_test  
160 datm\_cdeps\_control\_gefs\_intel failed in check\_result  
datm\_cdeps\_control\_gefs\_intel 160 failed in run\_test  
161 datm\_cdeps\_iau\_gefs\_intel failed in check\_result  
datm\_cdeps\_iau\_gefs\_intel 161 failed in run\_test  
162 datm\_cdeps\_stochy\_gefs\_intel failed in check\_result  
datm\_cdeps\_stochy\_gefs\_intel 162 failed in run\_test  
163 datm\_cdeps\_ciceC\_cfsr\_intel failed in check\_result  
datm\_cdeps\_ciceC\_cfsr\_intel 163 failed in run\_test  
164 datm\_cdeps\_bulk\_cfsr\_intel failed in check\_result  
datm\_cdeps\_bulk\_cfsr\_intel 164 failed in run\_test  
165 datm\_cdeps\_bulk\_gefs\_intel failed in check\_result  
datm\_cdeps\_bulk\_gefs\_intel 165 failed in run\_test  
166 datm\_cdeps\_mx025\_cfsr\_intel failed in check\_result

datm\_cdeps\_mx025\_cfsr\_intel 166 failed in run\_test  
167 datm\_cdeps\_mx025\_gefs\_intel failed in check\_result  
datm\_cdeps\_mx025\_gefs\_intel 167 failed in run\_test  
169 datm\_cdeps\_3072x1536\_cfsr\_intel failed in check\_result  
datm\_cdeps\_3072x1536\_cfsr\_intel 169 failed in run\_test  
170 datm\_cdeps\_gfs\_intel failed in check\_result  
datm\_cdeps\_gfs\_intel 170 failed in run\_test  
171 datm\_cdeps\_debug\_cfsr\_intel failed in check\_result  
datm\_cdeps\_debug\_cfsr\_intel 171 failed in run\_test  
172 datm\_cdeps\_control\_cfsr\_faster\_intel failed in check\_result  
datm\_cdeps\_control\_cfsr\_faster\_intel 172 failed in run\_test  
244 cpld\_control\_p8\_gnu failed in check\_result  
cpld\_control\_p8\_gnu 244 failed in run\_test  
245 cpld\_control\_nowave\_noaero\_p8\_gnu failed in check\_result  
cpld\_control\_nowave\_noaero\_p8\_gnu 245 failed in run\_test  
246 cpld\_debug\_p8\_gnu failed in check\_result  
cpld\_debug\_p8\_gnu 246 failed in run\_test  
247 cpld\_control\_pdlib\_p8\_gnu failed in check\_result  
cpld\_control\_pdlib\_p8\_gnu 247 failed in run\_test  
248 cpld\_debug\_pdlib\_p8\_gnu failed in check\_result  
cpld\_debug\_pdlib\_p8\_gnu 248 failed in run\_test  
249 datm\_cdeps\_control\_cfsr\_gnu failed in check\_result  
datm\_cdeps\_control\_cfsr\_gnu 249 failed in run\_test

REGRESSION TEST FAILED

Sat Aug 12 06:24:22 UTC 2023

Elapsed time: 03h:03m:18s. Have a nice day!