

Tue Feb 7 00:02:10 EST 2023

Start Regression test

Compile 001 elapsed time 191 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_GFS\_v16,FV3\_GFS\_v16\_ras,FV3\_GFS\_v17\_p8 -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release

Compile 002 elapsed time 192 seconds. -DAPP=ATM -  
DCCPP\_SUITES=FV3\_RAP,FV3\_RAP\_sfcdiff,FV3\_HRRR,FV3\_HRRR\_smoke,FV3\_RRFS\_v1beta -D32BIT=ON  
-DMPI=ON -DCMAKE\_BUILD\_TYPE=Release

Compile 003 elapsed time 313 seconds. -DAPP=ATM -D32BIT=ON -DDEBUG=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug

Compile 004 elapsed time 99 seconds. -DAPP=ATM -DCCPP\_SUITES=FV3\_GFS\_v16\_fv3wam -D32BIT=ON  
-DMULTI\_GASES=ON -DDEBUG=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug

Compile 005 elapsed time 189 seconds. -DAPP=ATM -DCCPP\_SUITES=FV3\_RAP,FV3\_HRRR -D32BIT=ON -  
DCCPP\_32BIT=ON -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release

Compile 006 elapsed time 386 seconds. -DAPP=ATM -DCCPP\_32BIT=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release

Compile 007 elapsed time 315 seconds. -DAPP=ATM -D32BIT=ON -DCCPP\_32BIT=ON -DDEBUG=ON -  
DMPI=ON -DCMAKE\_BUILD\_TYPE=Debug

Compile 008 elapsed time 314 seconds. -DAPP=ATM -DCCPP\_32BIT=ON -DDEBUG=ON -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug

Compile 009 elapsed time 264 seconds. -DAPP=S2SWA -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8,FV3\_GFS\_cpld\_rasmgshocnsstnoahmp\_ugwp -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON

Compile 010 elapsed time 229 seconds. -DAPP=S2S -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8,FV3\_GFS\_cpld\_rasmgshocnsstnoahmp\_ugwp -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Release -DMOM6SOLO=ON

Compile 011 elapsed time 147 seconds. -DAPP=S2SWA -DDEBUG=ON -  
DCCPP\_SUITES=FV3\_GFS\_v17\_coupled\_p8,FV3\_GFS\_cpld\_rasmgshocnsstnoahmp\_ugwp -DMPI=ON -  
DCMAKE\_BUILD\_TYPE=Debug -DMOM6SOLO=ON

Compile 012 elapsed time 115 seconds. -DAPP=NG-GODAS -DMPI=ON -DCMAKE\_BUILD\_TYPE=Release -  
DMOM6SOLO=ON

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFv3gfs/develop-  
20230126/GNU/control\_c48

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_c48

Checking test 001 control\_c48 results ....

Comparing sfcf000.nc .....OK

Comparing sfcf024.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf024.nc .....OK

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

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time                   = 682.494636  
0: The maximum resident set size (KB)           = 698856

Test 001 control\_c48 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_stochy

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_stochy

Checking test 002 control\_stochy 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 = 645.290772  
0: The maximum resident set size (KB) = 478376

Test 002 control\_stochy PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_ras

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_ras

Checking test 003 control\_ras 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 = 828.282825  
0: The maximum resident set size (KB) = 486432

Test 003 control\_ras PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_p8

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_p8

Checking test 004 control\_p8 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK

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

0: The total amount of wall time = 893.292393

0: The maximum resident set size (KB) = 1233980

Test 004 control\_p8 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control

Checking test 005 rap\_control 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK

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

0: The total amount of wall time = 1467.829137

0: The maximum resident set size (KB) = 829996

Test 005 rap\_control PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFv3gfs/develop-20230126/GNU/rap\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_decomp

Checking test 006 rap\_decomp 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK  
Comparing RESTART/phy\_data.tile3.nc .....OK

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

0: The total amount of wall time                   = 1445.312835  
0: The maximum resident set size (KB)           = 831644

Test 006 rap\_decomp PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFv3gfs/develop-20230126/GNU/rap\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_2threads

Checking test 007 rap\_2threads 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK  
Comparing RESTART/phy\_data.tile3.nc .....OK  
Comparing RESTART/phy\_data.tile4.nc .....OK  
Comparing RESTART/phy\_data.tile5.nc .....OK  
Comparing RESTART/phy\_data.tile6.nc .....OK

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

0: The total amount of wall time                   = 1345.470271  
0: The maximum resident set size (KB)           = 898284

Test 007 rap\_2threads PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_restart

Checking test 008 rap\_restart results ....

Comparing sfcf024.nc .....OK  
Comparing atmf024.nc .....OK  
Comparing GFSFLX.GrbF24 .....OK  
Comparing GFSPRS.GrbF24 .....OK  
Comparing RESTART/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK

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

0: The total amount of wall time = 726.715038

0: The maximum resident set size (KB) = 540784

Test 008 rap\_restart PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_sfcdiff

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_sfcdiff

Checking test 009 rap\_sfcdiff 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 1471.812640

0: The maximum resident set size (KB) = 822812

Test 009 rap\_sfcdiff PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_sfcdiff

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_sfcdiff\_decomp

Checking test 010 rap\_sfcdiff\_decomp 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 1452.840420

0: The maximum resident set size (KB) = 829188

Test 010 rap\_sfcdiff\_decomp PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_sfcdiff

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_sfcdiff\_restart

Checking test 011 rap\_sfcdiff\_restart results ....

Comparing sfcf012.nc .....OK

Comparing atmf012.nc .....OK

Comparing GFSLX.GrbF12 .....OK

Comparing GFSPRS.GrbF12 .....OK

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

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 1093.028707

0: The maximum resident set size (KB) = 544752

Test 011 rap\_sfcdiff\_restart PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFV3GFS/develop-20230126/GNU/hrrr\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control

Checking test 012 hrrr\_control 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK  
Comparing RESTART/phy\_data.tile3.nc .....OK  
Comparing RESTART/phy\_data.tile4.nc .....OK  
Comparing RESTART/phy\_data.tile5.nc .....OK  
Comparing RESTART/phy\_data.tile6.nc .....OK  
Comparing RESTART/sfc\_data.tile1.nc .....OK

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

0: The total amount of wall time                   = 1435.806115  
0: The maximum resident set size (KB)           = 822992

Test 012 hrrr\_control PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-  
20230126/GNU/hrrr\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_2threads

Checking test 013 hrrr\_control\_2threads 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/coupler.res .....OK

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

Comparing RESTART/sfc\_data.tile5.nc .....OK

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

0: The total amount of wall time = 1326.506554

0: The maximum resident set size (KB) = 892424

Test 013 hrrr\_control\_2threads PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_decomp

Checking test 014 hrrr\_control\_decomp 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

0: The total amount of wall time = 1417.589846

0: The maximum resident set size (KB) = 825872

Test 014 hrrr\_control\_decomp PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFV3GFS/develop-20230126/GNU/hrrr\_control

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_restart

Checking test 015 hrrr\_control\_restart results ....

Comparing sfcf012.nc .....OK

Comparing atmf012.nc .....OK

Comparing GFSFLX.GrbF12 .....OK

Comparing GFSPRS.GrbF12 .....OK

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

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 1044.350188

0: The maximum resident set size (KB) = 538200

Test 015 hrrr\_control\_restart PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfs\_v1beta

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfs\_v1beta

Checking test 016 rrfs\_v1beta 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK

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

0: The total amount of wall time                   = 1435.549731  
0: The maximum resident set size (KB)           = 820960

Test 016 rrfv\_v1beta PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfv\_conus13km\_hrrr\_warm

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfv\_conus13km\_hrrr\_warm

Checking test 017 rrfv\_conus13km\_hrrr\_warm 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 = 797.884291

0: The maximum resident set size (KB) = 633680

Test 017 rrfc\_conus13km\_hrrr\_warm PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfc\_smoke\_conus13km\_hrrr\_warm

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfc\_smoke\_conus13km\_hrrr\_warm

Checking test 018 rrfc\_smoke\_conus13km\_hrrr\_warm 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 = 782.240954

0: The maximum resident set size (KB) = 649764

Test 018 rrfc\_smoke\_conus13km\_hrrr\_warm PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfc\_conus13km\_radar\_tten\_warm

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfs\_conus13km\_radar\_tten\_warm

Checking test 019 rrfs\_conus13km\_radar\_tten\_warm 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 = 756.763802

0: The maximum resident set size (KB) = 636688

Test 019 rrfs\_conus13km\_radar\_tten\_warm PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFv3gfs/develop-  
20230126/GNU/rrfs\_conus13km\_radar\_tten\_warm

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfs\_conus13km\_radar\_tten\_warm\_2thread  
s

Checking test 020 rrfs\_conus13km\_radar\_tten\_warm\_2threads 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 = 894.800471

0: The maximum resident set size (KB) = 635476

Test 020 rrf5\_conus13km\_radar\_tten\_warm\_2threads PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_diag\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_diag\_debug

Checking test 021 control\_diag\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 127.531530

0: The maximum resident set size (KB) = 531056

Test 021 control\_diag\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/regional\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/regional\_debug

Checking test 022 regional\_debug results ....

Comparing dynf000.nc .....OK

Comparing dynf001.nc .....OK

Comparing phyf000.nc .....OK

Comparing phyf001.nc .....OK

0: The total amount of wall time = 634.546524  
0: The maximum resident set size (KB) = 588788

Test 022 regional\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control\_debug

Checking test 023 rap\_control\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 172.965286  
0: The maximum resident set size (KB) = 845188

Test 023 rap\_control\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_debug

Checking test 024 hrrr\_control\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 173.511732

0: The maximum resident set size (KB) = 843076

Test 024 hrrr\_control\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_diag\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_diag\_debug

Checking test 025 rap\_diag\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 211.234992

0: The maximum resident set size (KB) = 931600

Test 025 rap\_diag\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_noah\_sfcdiff\_cires\_ugwp\_debug

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_noah\_sfcdiff\_cires\_ugwp\_debug

Checking test 026 rap\_noah\_sfcdiff\_cires\_ugwp\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 272.909644

0: The maximum resident set size (KB) = 841236

Test 026 rap\_noah\_sfcdiff\_cires\_ugwp\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_progclد\_thompson\_debug

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_progclد\_thompson\_debug

Checking test 027 rap\_progclد\_thompson\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 176.073060

0: The maximum resident set size (KB) = 849536

Test 027 rap\_progclد\_thompson\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfs\_v1beta\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfs\_v1beta\_debug

Checking test 028 rrfs\_v1beta\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 170.766018

0: The maximum resident set size (KB) = 840968

Test 028 rrfv\_v1beta\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_ras\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_ras\_debug

Checking test 029 control\_ras\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 103.217239

0: The maximum resident set size (KB) = 481616

Test 029 control\_ras\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_stochy\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_stochy\_debug

Checking test 030 control\_stochy\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 121.564835

0: The maximum resident set size (KB) = 475748

Test 030 control\_stochy\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_debug\_p8

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_debug\_p8

Checking test 031 control\_debug\_p8 results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 117.679810

0: The maximum resident set size (KB) = 1233260

Test 031 control\_debug\_p8 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfs\_conus13km\_hrrr\_warm\_debugs

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfs\_conus13km\_hrrr\_warm\_debug

Checking test 032 rrfs\_conus13km\_hrrr\_warm\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 567.781417

0: The maximum resident set size (KB) = 645064

Test 032 rrfc\_conus13km\_hrrr\_warm\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rrfc\_conus13km\_radar\_tten\_warm\_debug

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rrfc\_conus13km\_radar\_tten\_warm\_debug

Checking test 033 rrfc\_conus13km\_radar\_tten\_warm\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 573.092051

0: The maximum resident set size (KB) = 651172

Test 033 rrfc\_conus13km\_radar\_tten\_warm\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/control\_wam\_debug

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/control\_wam\_debug

Checking test 034 control\_wam\_debug results ....

Comparing sfcf019.nc .....OK

Comparing atmf019.nc .....OK

0: The total amount of wall time = 185.174937

0: The maximum resident set size (KB) = 192428

Test 034 control\_wam\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_dyn32\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control\_dyn32\_phy32

Checking test 035 rap\_control\_dyn32\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

0: The total amount of wall time = 1430.602512

0: The maximum resident set size (KB) = 682632

Test 035 rap\_control\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFv3gfs/develop-20230126/GNU/hrrr\_control\_dyn32\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_dyn32\_phy32

Checking test 036 hrrr\_control\_dyn32\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

0: The total amount of wall time = 735.288571

0: The maximum resident set size (KB) = 689436

Test 036 hrrr\_control\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_dyn32\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_2threads\_dyn32\_phy32

Checking test 037 rap\_2threads\_dyn32\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

0: The total amount of wall time = 1336.851303

0: The maximum resident set size (KB) = 728532

Test 037 rap\_2threads\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control\_dyn32\_phy32

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_2threads\_dyn32\_phy32

Checking test 038 hrrr\_control\_2threads\_dyn32\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 679.492005

0: The maximum resident set size (KB) = 729500

Test 038 hrrr\_control\_2threads\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control\_dyn32\_phy32

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_decomp\_dyn32\_phy32

Checking test 039 hrrr\_control\_decomp\_dyn32\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time = 730.201649

0: The maximum resident set size (KB) = 683160

Test 039 hrrr\_control\_decomp\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_dyn32\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_restart\_dyn32\_phy32

Checking test 040 rap\_restart\_dyn32\_phy32 results ....

Comparing sfcf012.nc .....OK

Comparing atmf012.nc .....OK

Comparing GFSFLX.GrbF12 .....OK

Comparing GFSPRS.GrbF12 .....OK

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

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

0: The total amount of wall time                   = 1080.798800  
0: The maximum resident set size (KB)           = 510068

Test 040 rap\_restart\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control\_dyn32\_phy32

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_restart\_dyn32\_phy32

Checking test 041 hrrr\_control\_restart\_dyn32\_phy32 results ....

Comparing sfcf012.nc .....OK  
Comparing atmf012.nc .....OK  
Comparing GFSFLX.GrbF12 .....OK  
Comparing GFSPRS.GrbF12 .....OK  
Comparing RESTART/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK

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

0: The total amount of wall time = 364.988363

0: The maximum resident set size (KB) = 510696

Test 041 hrrr\_control\_restart\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSFV3GFS/develop-20230126/GNU/rap\_control\_dyn64\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control\_dyn64\_phy32

Checking test 042 rap\_control\_dyn64\_phy32 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/coupler.res .....OK

Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers

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

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

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

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

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

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

0: The total amount of wall time = 1056.427153

0: The maximum resident set size (KB) = 708440

Test 042 rap\_control\_dyn64\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_debug\_dyn32\_phy32

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control\_debug\_dyn32\_phy32

Checking test 043 rap\_control\_debug\_dyn32\_phy32 results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 170.484600

0: The maximum resident set size (KB) = 704836

Test 043 rap\_control\_debug\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/hrrr\_control\_debug\_dyn32\_phy32

working dir =  
/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/hrrr\_control\_debug\_dyn32\_phy32

Checking test 044 hrrr\_control\_debug\_dyn32\_phy32 results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 169.223834

0: The maximum resident set size (KB) = 704772

Test 044 hrrr\_control\_debug\_dyn32\_phy32 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/rap\_control\_debug\_dyn64\_phy32

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/rap\_control\_dyn64\_phy32\_debug

Checking test 045 rap\_control\_dyn64\_phy32\_debug results ....

Comparing sfcf000.nc .....OK

Comparing sfcf001.nc .....OK

Comparing atmf000.nc .....OK

Comparing atmf001.nc .....OK

0: The total amount of wall time = 198.711621

0: The maximum resident set size (KB) = 721460

Test 045 rap\_control\_dyn64\_phy32\_debug PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/cpld\_control\_p8

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/cpld\_control\_p8

Checking test 046 cpld\_control\_p8 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK

Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK  
Comparing RESTART/phy\_data.tile3.nc .....OK  
Comparing RESTART/phy\_data.tile4.nc .....OK  
Comparing RESTART/phy\_data.tile5.nc .....OK  
Comparing RESTART/phy\_data.tile6.nc .....OK  
Comparing RESTART/sfc\_data.tile1.nc .....OK  
Comparing RESTART/sfc\_data.tile2.nc .....OK  
Comparing RESTART/sfc\_data.tile3.nc .....OK  
Comparing RESTART/sfc\_data.tile4.nc .....OK  
Comparing RESTART/sfc\_data.tile5.nc .....OK  
Comparing RESTART/sfc\_data.tile6.nc .....OK  
Comparing RESTART/MOM.res.nc .....OK  
Comparing RESTART/iced.2021-03-23-21600.nc .....OK  
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....ALT CHECK.....OK  
Comparing 20210323.060000.out\_pnt.ww3 .....OK  
Comparing 20210323.060000.out\_grd.ww3 .....OK

0: The total amount of wall time = 1707.910653

0: The maximum resident set size (KB) = 1430096

Test 046 cpld\_control\_p8 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/cpld\_control\_c96\_noaero\_p8

working dir =

/scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/cpld\_control\_nowave\_noaero\_p8

Checking test 047 cpld\_control\_nowave\_noaero\_p8 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK  
Comparing RESTART/phy\_data.tile3.nc .....OK

Comparing RESTART/phy\_data.tile4.nc .....OK  
Comparing RESTART/phy\_data.tile5.nc .....OK  
Comparing RESTART/phy\_data.tile6.nc .....OK  
Comparing RESTART/sfc\_data.tile1.nc .....OK  
Comparing RESTART/sfc\_data.tile2.nc .....OK  
Comparing RESTART/sfc\_data.tile3.nc .....OK  
Comparing RESTART/sfc\_data.tile4.nc .....OK  
Comparing RESTART/sfc\_data.tile5.nc .....OK  
Comparing RESTART/sfc\_data.tile6.nc .....OK  
Comparing RESTART/MOM.res.nc .....OK  
Comparing RESTART/iced.2021-03-23-21600.nc .....OK  
Comparing RESTART/ufs.cpld.cpl.r.2021-03-23-21600.nc .....ALT CHECK.....OK

0: The total amount of wall time = 1225.842444

0: The maximum resident set size (KB) = 1331844

Test 047 cpld\_control\_nowave\_noaero\_p8 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/cpld\_debug\_p8

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/cpld\_debug\_p8

Checking test 048 cpld\_debug\_p8 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/coupler.res .....OK  
Comparing RESTART/fv\_core.res.nc .....SKIP for gnu compilers  
Comparing RESTART/fv\_core.res.tile1.nc .....OK  
Comparing RESTART/fv\_core.res.tile2.nc .....OK  
Comparing RESTART/fv\_core.res.tile3.nc .....OK  
Comparing RESTART/fv\_core.res.tile4.nc .....OK  
Comparing RESTART/fv\_core.res.tile5.nc .....OK  
Comparing RESTART/fv\_core.res.tile6.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile1.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile2.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile3.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile4.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile5.nc .....OK  
Comparing RESTART/fv\_srf\_wnd.res.tile6.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile1.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile2.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile3.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile4.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile5.nc .....OK  
Comparing RESTART/fv\_tracer.res.tile6.nc .....OK  
Comparing RESTART/phy\_data.tile1.nc .....OK  
Comparing RESTART/phy\_data.tile2.nc .....OK

Comparing RESTART/phy\_data.tile3.nc .....OK  
Comparing RESTART/phy\_data.tile4.nc .....OK  
Comparing RESTART/phy\_data.tile5.nc .....OK  
Comparing RESTART/phy\_data.tile6.nc .....OK  
Comparing RESTART/sfc\_data.tile1.nc .....OK  
Comparing RESTART/sfc\_data.tile2.nc .....OK  
Comparing RESTART/sfc\_data.tile3.nc .....OK  
Comparing RESTART/sfc\_data.tile4.nc .....OK  
Comparing RESTART/sfc\_data.tile5.nc .....OK  
Comparing RESTART/sfc\_data.tile6.nc .....OK  
Comparing RESTART/MOM.res.nc .....OK  
Comparing RESTART/iced.2021-03-22-32400.nc .....OK  
Comparing RESTART/ufs.cpld.cpl.r.2021-03-22-32400.nc .....ALT CHECK.....OK  
Comparing 20210322.090000.out\_pnt.ww3 .....OK  
Comparing 20210322.090000.out\_grd.ww3 .....OK

0: The total amount of wall time = 1038.759322

0: The maximum resident set size (KB) = 1444808

Test 048 cpld\_debug\_p8 PASS

baseline dir = /scratch1/NCEPDEV/nems/emc.nemspara/RT/NEMSfv3gfs/develop-20230126/GNU/datm\_cdeps\_control\_cfsr

working dir = /scratch1/NCEPDEV/stmp2/Jiande.Wang/FV3\_RT/rt\_20861/datm\_cdeps\_control\_cfsr

Checking test 049 datm\_cdeps\_control\_cfsr results ....

Comparing RESTART/MOM.res.nc .....OK

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

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

O: The total amount of wall time = 174.971110

O: The maximum resident set size (KB) = 663632

Test 049 datm\_cdeps\_control\_cfsr PASS

REGRESSION TEST WAS SUCCESSFUL

Tue Feb 7 01:14:59 EST 2023

Elapsed time: 01h:12m:50s. Have a nice day!