# **g++ utility**

sudo apt install g++

[sudo] password for wrf:

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

g++-7 libstdc++-7-dev

Suggested packages:

g++-multilib g++-7-multilib gcc-7-doc libstdc++6-7-dbg libstdc++-7-doc

The following NEW packages will be installed:

g++ g++-7 libstdc++-7-dev

0 upgraded, 3 newly installed, 0 to remove and 420 not upgraded.

Need to get 11.2 MB of archives.

After this operation, 42.4 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libstdc++-7-dev amd64 7.5.0-3ubuntu1~18.04 [1,471 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 g++-7 amd64 7.5.0-3ubuntu1~18.04 [9,697 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 g++ amd64 4:7.4.0-1ubuntu2.3 [1,568 B]

Fetched 11.2 MB in 46s (245 kB/s)

Selecting previously unselected package libstdc++-7-dev:amd64.

(Reading database ... 247243 files and directories currently installed.)

Preparing to unpack .../libstdc++-7-dev\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libstdc++-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package g++-7.

Preparing to unpack .../g++-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking g++-7 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package g++.

Preparing to unpack .../g++\_4%3a7.4.0-1ubuntu2.3\_amd64.deb ...

Unpacking g++ (4:7.4.0-1ubuntu2.3) ...

Setting up libstdc++-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up g++-7 (7.5.0-3ubuntu1~18.04) ...

Setting up g++ (4:7.4.0-1ubuntu2.3) ...

update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

# **gfortran utilities**

sudo apt install gfortran

[sudo] password for wrf:

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

cpp-7 gcc-7 gcc-7-base gfortran-7 libasan4 libc-dev-bin libc6 libc6-dbg

libc6-dev libcilkrts5 libgcc-7-dev libgfortran-7-dev libgfortran4 libubsan0

Suggested packages:

gcc-7-locales gcc-7-multilib gcc-7-doc libgcc1-dbg libgomp1-dbg libitm1-dbg

libatomic1-dbg libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg

libcilkrts5-dbg libmpx2-dbg libquadmath0-dbg gfortran-multilib gfortran-doc

gfortran-7-multilib gfortran-7-doc libgfortran4-dbg libcoarrays-dev

glibc-doc

The following NEW packages will be installed:

gfortran gfortran-7 libc-dev-bin libc6-dev libgfortran-7-dev libgfortran4

The following packages will be upgraded:

cpp-7 gcc-7 gcc-7-base libasan4 libc6 libc6-dbg libcilkrts5 libgcc-7-dev

libubsan0

9 upgraded, 6 newly installed, 0 to remove and 420 not upgraded.

Need to get 41.6 MB of archives.

After this operation, 53.8 MB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libc6-dbg amd64 2.27-3ubuntu1.4 [5,163 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libc6 amd64 2.27-3ubuntu1.4 [2,832 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libasan4 amd64 7.5.0-3ubuntu1~18.04 [358 kB]

Get:4 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libubsan0 amd64 7.5.0-3ubuntu1~18.04 [126 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcilkrts5 amd64 7.5.0-3ubuntu1~18.04 [42.5 kB]

Get:6 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 gcc-7 amd64 7.5.0-3ubuntu1~18.04 [9,381 kB]

Get:7 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libgcc-7-dev amd64 7.5.0-3ubuntu1~18.04 [2,378 kB]

Get:8 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 cpp-7 amd64 7.5.0-3ubuntu1~18.04 [8,591 kB]

Get:9 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 gcc-7-base amd64 7.5.0-3ubuntu1~18.04 [18.3 kB]

Get:10 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libgfortran4 amd64 7.5.0-3ubuntu1~18.04 [492 kB]

Get:11 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libgfortran-7-dev amd64 7.5.0-3ubuntu1~18.04 [530 kB]

Get:12 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libc-dev-bin amd64 2.27-3ubuntu1.4 [71.8 kB]

Get:13 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 libc6-dev amd64 2.27-3ubuntu1.4 [2,585 kB]

Get:14 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 gfortran-7 amd64 7.5.0-3ubuntu1~18.04 [9,014 kB]

Get:15 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 gfortran amd64 4:7.4.0-1ubuntu2.3 [1,356 B]

Fetched 41.6 MB in 2min 33s (271 kB/s)

Preconfiguring packages ...

(Reading database ... 246649 files and directories currently installed.)

Preparing to unpack .../libc6-dbg\_2.27-3ubuntu1.4\_amd64.deb ...

Unpacking libc6-dbg:amd64 (2.27-3ubuntu1.4) over (2.27-3ubuntu1) ...

Preparing to unpack .../libc6\_2.27-3ubuntu1.4\_amd64.deb ...

Unpacking libc6:amd64 (2.27-3ubuntu1.4) over (2.27-3ubuntu1) ...

Setting up libc6:amd64 (2.27-3ubuntu1.4) ...

(Reading database ... 246648 files and directories currently installed.)

Preparing to unpack .../00-libasan4\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libasan4:amd64 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../01-libubsan0\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libubsan0:amd64 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../02-libcilkrts5\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../03-gcc-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking gcc-7 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../04-libgcc-7-dev\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../05-cpp-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking cpp-7 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Preparing to unpack .../06-gcc-7-base\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) over (7.4.0-1ubuntu1~18.04.1) ...

Selecting previously unselected package libgfortran4:amd64.

Preparing to unpack .../07-libgfortran4\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libgfortran4:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package libgfortran-7-dev:amd64.

Preparing to unpack .../08-libgfortran-7-dev\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking libgfortran-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package libc-dev-bin.

Preparing to unpack .../09-libc-dev-bin\_2.27-3ubuntu1.4\_amd64.deb ...

Unpacking libc-dev-bin (2.27-3ubuntu1.4) ...

Selecting previously unselected package libc6-dev:amd64.

Preparing to unpack .../10-libc6-dev\_2.27-3ubuntu1.4\_amd64.deb ...

Unpacking libc6-dev:amd64 (2.27-3ubuntu1.4) ...

Selecting previously unselected package gfortran-7.

Preparing to unpack .../11-gfortran-7\_7.5.0-3ubuntu1~18.04\_amd64.deb ...

Unpacking gfortran-7 (7.5.0-3ubuntu1~18.04) ...

Selecting previously unselected package gfortran.

Preparing to unpack .../12-gfortran\_4%3a7.4.0-1ubuntu2.3\_amd64.deb ...

Unpacking gfortran (4:7.4.0-1ubuntu2.3) ...

Setting up libc6-dbg:amd64 (2.27-3ubuntu1.4) ...

Setting up gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libc-dev-bin (2.27-3ubuntu1.4) ...

Setting up libc6-dev:amd64 (2.27-3ubuntu1.4) ...

Setting up libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libgfortran4:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up cpp-7 (7.5.0-3ubuntu1~18.04) ...

Setting up libgfortran-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...

Setting up gcc-7 (7.5.0-3ubuntu1~18.04) ...

Setting up gfortran-7 (7.5.0-3ubuntu1~18.04) ...

Setting up gfortran (4:7.4.0-1ubuntu2.3) ...

update-alternatives: using /usr/bin/gfortran to provide /usr/bin/f95 (f95) in auto mode

update-alternatives: using /usr/bin/gfortran to provide /usr/bin/f77 (f77) in auto mode

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

# **compilation and building of executables necessary for wrf domain**

module\_cam\_constituents.G > module\_cam\_constituents.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_constituents.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_constituents.f90

rm -f module\_cam\_constituents.G module\_cam\_constituents.bb

time mpif90 -o module\_cam\_constituents.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_constituents.f90

0.15user 0.01system 0:00.17elapsed 97%CPU (0avgtext+0avgdata 31884maxresident)k

0inputs+168outputs (0major+9071minor)pagefaults 0swaps

rm -f module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.F > module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.G > module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.f90

rm -f module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.G module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.bb

time mpif90 -o module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_mp\_modal\_aero\_initialize\_data\_phys.f90

0.07user 0.01system 0:00.08elapsed 101%CPU (0avgtext+0avgdata 28712maxresident)k

0inputs+88outputs (0major+8024minor)pagefaults 0swaps

rm -f module\_radiation\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_radiation\_driver.F > module\_radiation\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_radiation\_driver.G > module\_radiation\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_radiation\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_radiation\_driver.f90

rm -f module\_radiation\_driver.G module\_radiation\_driver.bb

time mpif90 -o module\_radiation\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_radiation\_driver.f90

2.22user 0.14system 0:02.37elapsed 99%CPU (0avgtext+0avgdata 230884maxresident)k

0inputs+848outputs (0major+97818minor)pagefaults 0swaps

rm -f module\_sf\_noahdrv.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_sf\_noahdrv.F > module\_sf\_noahdrv.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_sf\_noahdrv.G > module\_sf\_noahdrv.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_sf\_noahdrv.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_sf\_noahdrv.f90

rm -f module\_sf\_noahdrv.G module\_sf\_noahdrv.bb

time mpif90 -o module\_sf\_noahdrv.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_sf\_noahdrv.f90

3.47user 0.13system 0:03.61elapsed 99%CPU (0avgtext+0avgdata 259524maxresident)k

0inputs+1592outputs (0major+68940minor)pagefaults 0swaps

rm -f module\_diagnostics\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_diagnostics\_driver.F > module\_diagnostics\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_diagnostics\_driver.G > module\_diagnostics\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_diagnostics\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_diagnostics\_driver.f90

rm -f module\_diagnostics\_driver.G module\_diagnostics\_driver.bb

time mpif90 -o module\_diagnostics\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_diagnostics\_driver.f90

1.69user 0.05system 0:01.75elapsed 99%CPU (0avgtext+0avgdata 118500maxresident)k

0inputs+1088outputs (0major+33354minor)pagefaults 0swaps

rm -f module\_fr\_fire\_model.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_fr\_fire\_model.F > module\_fr\_fire\_model.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_fr\_fire\_model.G > module\_fr\_fire\_model.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_fr\_fire\_model.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_fr\_fire\_model.f90

rm -f module\_fr\_fire\_model.G module\_fr\_fire\_model.bb

time mpif90 -o module\_fr\_fire\_model.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_fr\_fire\_model.f90

0.94user 0.10system 0:01.06elapsed 99%CPU (0avgtext+0avgdata 229136maxresident)k

0inputs+464outputs (0major+65774minor)pagefaults 0swaps

rm -f module\_cam\_wv\_saturation.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_wv\_saturation.F > module\_cam\_wv\_saturation.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_wv\_saturation.G > module\_cam\_wv\_saturation.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_wv\_saturation.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_wv\_saturation.f90

rm -f module\_cam\_wv\_saturation.G module\_cam\_wv\_saturation.bb

time mpif90 -o module\_cam\_wv\_saturation.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_wv\_saturation.f90

8.09user 0.35system 0:08.46elapsed 99%CPU (0avgtext+0avgdata 853936maxresident)k

0inputs+2288outputs (0major+273839minor)pagefaults 0swaps

rm -f module\_cam\_molec\_diff.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_molec\_diff.F > module\_cam\_molec\_diff.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_molec\_diff.G > module\_cam\_molec\_diff.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_molec\_diff.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_molec\_diff.f90

rm -f module\_cam\_molec\_diff.G module\_cam\_molec\_diff.bb

time mpif90 -o module\_cam\_molec\_diff.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_molec\_diff.f90

0.17user 0.01system 0:00.19elapsed 99%CPU (0avgtext+0avgdata 32184maxresident)k

0inputs+176outputs (0major+8924minor)pagefaults 0swaps

rm -f module\_mixactivate.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_mixactivate.F > module\_mixactivate.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_mixactivate.G > module\_mixactivate.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_mixactivate.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_mixactivate.f90

rm -f module\_mixactivate.G module\_mixactivate.bb

time mpif90 -o module\_mixactivate.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_mixactivate.f90

0.30user 0.03system 0:00.33elapsed 99%CPU (0avgtext+0avgdata 45296maxresident)k

0inputs+288outputs (0major+13270minor)pagefaults 0swaps

rm -f module\_surface\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_surface\_driver.F > module\_surface\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_surface\_driver.G > module\_surface\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_surface\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_surface\_driver.f90

rm -f module\_surface\_driver.G module\_surface\_driver.bb

time mpif90 -o module\_surface\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_surface\_driver.f90

2.77user 0.09system 0:02.87elapsed 99%CPU (0avgtext+0avgdata 269376maxresident)k

0inputs+1216outputs (0major+70506minor)pagefaults 0swaps

rm -f module\_fr\_fire\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_fr\_fire\_driver.F > module\_fr\_fire\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_fr\_fire\_driver.G > module\_fr\_fire\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_fr\_fire\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_fr\_fire\_driver.f90

rm -f module\_fr\_fire\_driver.G module\_fr\_fire\_driver.bb

time mpif90 -o module\_fr\_fire\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_fr\_fire\_driver.f90

1.71user 0.09system 0:01.81elapsed 99%CPU (0avgtext+0avgdata 234216maxresident)k

0inputs+888outputs (0major+72169minor)pagefaults 0swaps

rm -f module\_cam\_cldwat.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_cldwat.F > module\_cam\_cldwat.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_cldwat.G > module\_cam\_cldwat.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_cldwat.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_cldwat.f90

rm -f module\_cam\_cldwat.G module\_cam\_cldwat.bb

time mpif90 -o module\_cam\_cldwat.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_cldwat.f90

0.06user 0.02system 0:00.09elapsed 100%CPU (0avgtext+0avgdata 26332maxresident)k

0inputs+56outputs (0major+7571minor)pagefaults 0swaps

rm -f module\_cam\_esinti.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_esinti.F > module\_cam\_esinti.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_esinti.G > module\_cam\_esinti.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_esinti.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_esinti.f90

rm -f module\_cam\_esinti.G module\_cam\_esinti.bb

time mpif90 -o module\_cam\_esinti.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_esinti.f90

0.03user 0.02system 0:00.05elapsed 105%CPU (0avgtext+0avgdata 23932maxresident)k

0inputs+24outputs (0major+7070minor)pagefaults 0swaps

rm -f module\_cam\_mp\_ndrop.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_mp\_ndrop.F > module\_cam\_mp\_ndrop.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_mp\_ndrop.G > module\_cam\_mp\_ndrop.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_mp\_ndrop.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_mp\_ndrop.f90

rm -f module\_cam\_mp\_ndrop.G module\_cam\_mp\_ndrop.bb

time mpif90 -o module\_cam\_mp\_ndrop.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_mp\_ndrop.f90

0.92user 0.05system 0:00.97elapsed 100%CPU (0avgtext+0avgdata 87904maxresident)k

0inputs+640outputs (0major+23750minor)pagefaults 0swaps

rm -f module\_cam\_mp\_cldwat2m\_micro.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_mp\_cldwat2m\_micro.F > module\_cam\_mp\_cldwat2m\_micro.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_mp\_cldwat2m\_micro.G > module\_cam\_mp\_cldwat2m\_micro.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_mp\_cldwat2m\_micro.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_mp\_cldwat2m\_micro.f90

rm -f module\_cam\_mp\_cldwat2m\_micro.G module\_cam\_mp\_cldwat2m\_micro.bb

time mpif90 -o module\_cam\_mp\_cldwat2m\_micro.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_mp\_cldwat2m\_micro.f90

3.16user 0.15system 0:03.31elapsed 100%CPU (0avgtext+0avgdata 267096maxresident)k

0inputs+1208outputs (0major+75818minor)pagefaults 0swaps

rm -f module\_bl\_camuwpbl\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_bl\_camuwpbl\_driver.F > module\_bl\_camuwpbl\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_bl\_camuwpbl\_driver.G > module\_bl\_camuwpbl\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_bl\_camuwpbl\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_bl\_camuwpbl\_driver.f90

rm -f module\_bl\_camuwpbl\_driver.G module\_bl\_camuwpbl\_driver.bb

time mpif90 -o module\_bl\_camuwpbl\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_bl\_camuwpbl\_driver.f90

1.36user 0.06system 0:01.44elapsed 99%CPU (0avgtext+0avgdata 154576maxresident)k

0inputs+584outputs (0major+41126minor)pagefaults 0swaps

rm -f module\_cu\_camzm.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cu\_camzm.F > module\_cu\_camzm.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cu\_camzm.G > module\_cu\_camzm.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cu\_camzm.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cu\_camzm.f90

rm -f module\_cu\_camzm.G module\_cu\_camzm.bb

time mpif90 -o module\_cu\_camzm.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cu\_camzm.f90

1.99user 1.34system 0:03.33elapsed 100%CPU (0avgtext+0avgdata 149992maxresident)k

0inputs+1456outputs (0major+41869minor)pagefaults 0swaps

rm -f module\_cu\_kfcup.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cu\_kfcup.F > module\_cu\_kfcup.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cu\_kfcup.G > module\_cu\_kfcup.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cu\_kfcup.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cu\_kfcup.f90

rm -f module\_cu\_kfcup.G module\_cu\_kfcup.bb

time mpif90 -o module\_cu\_kfcup.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cu\_kfcup.f90

15.04user 2.45system 0:17.50elapsed 99%CPU (0avgtext+0avgdata 1858092maxresident)k

0inputs+3608outputs (0major+494054minor)pagefaults 0swaps

rm -f module\_pbl\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_pbl\_driver.F > module\_pbl\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_pbl\_driver.G > module\_pbl\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_pbl\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_pbl\_driver.f90

rm -f module\_pbl\_driver.G module\_pbl\_driver.bb

time mpif90 -o module\_pbl\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_pbl\_driver.f90

1.21user 0.07system 0:01.28elapsed 99%CPU (0avgtext+0avgdata 88004maxresident)k

0inputs+808outputs (0major+24399minor)pagefaults 0swaps

rm -f module\_fr\_fire\_driver\_wrf.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_fr\_fire\_driver\_wrf.F > module\_fr\_fire\_driver\_wrf.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_fr\_fire\_driver\_wrf.G > module\_fr\_fire\_driver\_wrf.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_fr\_fire\_driver\_wrf.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_fr\_fire\_driver\_wrf.f90

rm -f module\_fr\_fire\_driver\_wrf.G module\_fr\_fire\_driver\_wrf.bb

time mpif90 -o module\_fr\_fire\_driver\_wrf.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_fr\_fire\_driver\_wrf.f90

0.23user 0.05system 0:00.27elapsed 101%CPU (0avgtext+0avgdata 46776maxresident)k

0inputs+512outputs (0major+14289minor)pagefaults 0swaps

rm -f module\_cam\_mp\_microp\_aero.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cam\_mp\_microp\_aero.F > module\_cam\_mp\_microp\_aero.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cam\_mp\_microp\_aero.G > module\_cam\_mp\_microp\_aero.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cam\_mp\_microp\_aero.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cam\_mp\_microp\_aero.f90

rm -f module\_cam\_mp\_microp\_aero.G module\_cam\_mp\_microp\_aero.bb

time mpif90 -o module\_cam\_mp\_microp\_aero.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cam\_mp\_microp\_aero.f90

0.34user 0.02system 0:00.36elapsed 98%CPU (0avgtext+0avgdata 50496maxresident)k

0inputs+288outputs (0major+14708minor)pagefaults 0swaps

rm -f module\_shcu\_camuwshcu.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_shcu\_camuwshcu.F > module\_shcu\_camuwshcu.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_shcu\_camuwshcu.G > module\_shcu\_camuwshcu.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_shcu\_camuwshcu.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_shcu\_camuwshcu.f90

rm -f module\_shcu\_camuwshcu.G module\_shcu\_camuwshcu.bb

time mpif90 -o module\_shcu\_camuwshcu.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_shcu\_camuwshcu.f90

5.58user 0.96system 0:06.54elapsed 100%CPU (0avgtext+0avgdata 411796maxresident)k

0inputs+2600outputs (0major+108815minor)pagefaults 0swaps

rm -f module\_mp\_cammgmp\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_mp\_cammgmp\_driver.F > module\_mp\_cammgmp\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_mp\_cammgmp\_driver.G > module\_mp\_cammgmp\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_mp\_cammgmp\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_mp\_cammgmp\_driver.f90

rm -f module\_mp\_cammgmp\_driver.G module\_mp\_cammgmp\_driver.bb

time mpif90 -o module\_mp\_cammgmp\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_mp\_cammgmp\_driver.f90

2.37user 0.10system 0:02.47elapsed 100%CPU (0avgtext+0avgdata 265776maxresident)k

0inputs+904outputs (0major+72016minor)pagefaults 0swaps

rm -f module\_cu\_camzm\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cu\_camzm\_driver.F > module\_cu\_camzm\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cu\_camzm\_driver.G > module\_cu\_camzm\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cu\_camzm\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cu\_camzm\_driver.f90

rm -f module\_cu\_camzm\_driver.G module\_cu\_camzm\_driver.bb

time mpif90 -o module\_cu\_camzm\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cu\_camzm\_driver.f90

0.96user 0.03system 0:01.00elapsed 100%CPU (0avgtext+0avgdata 93676maxresident)k

0inputs+416outputs (0major+25328minor)pagefaults 0swaps

rm -f module\_microphysics\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_microphysics\_driver.F > module\_microphysics\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_microphysics\_driver.G > module\_microphysics\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_microphysics\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_microphysics\_driver.f90

rm -f module\_microphysics\_driver.G module\_microphysics\_driver.bb

time mpif90 -o module\_microphysics\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_microphysics\_driver.f90

1.01user 0.05system 0:01.06elapsed 99%CPU (0avgtext+0avgdata 73668maxresident)k

0inputs+536outputs (0major+21198minor)pagefaults 0swaps

rm -f module\_cumulus\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_cumulus\_driver.F > module\_cumulus\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_cumulus\_driver.G > module\_cumulus\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_cumulus\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_cumulus\_driver.f90

rm -f module\_cumulus\_driver.G module\_cumulus\_driver.bb

time mpif90 -o module\_cumulus\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_cumulus\_driver.f90

1.83user 0.15system 0:01.99elapsed 99%CPU (0avgtext+0avgdata 226692maxresident)k

0inputs+576outputs (0major+71184minor)pagefaults 0swaps

12.93user 0.28system 0:13.22elapsed 100%CPU (0avgtext+0avgdata 621252maxresident)k

0inputs+3496outputs (0major+194355minor)pagefaults 0swaps

rm -f module\_shcu\_camuwshcu\_driver.o

rm -f module\_physics\_init.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_shcu\_camuwshcu\_driver.F > module\_shcu\_camuwshcu\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_physics\_init.F > module\_physics\_init.bb

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_shcu\_camuwshcu\_driver.G > module\_shcu\_camuwshcu\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_physics\_init.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_physics\_init.f90

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_shcu\_camuwshcu\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_shcu\_camuwshcu\_driver.f90

rm -f module\_shcu\_camuwshcu\_driver.G module\_shcu\_camuwshcu\_driver.bb

time mpif90 -o module\_shcu\_camuwshcu\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_shcu\_camuwshcu\_driver.f90

rm -f module\_physics\_init.b module\_physics\_init.bb

time mpif90 -c -O0 -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_physics\_init.f90

0.18user 0.02system 0:00.22elapsed 95%CPU (0avgtext+0avgdata 38828maxresident)k

0inputs+144outputs (0major+10739minor)pagefaults 0swaps

rm -f module\_shallowcu\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_shallowcu\_driver.F > module\_shallowcu\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_shallowcu\_driver.G > module\_shallowcu\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_shallowcu\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_shallowcu\_driver.f90

rm -f module\_shallowcu\_driver.G module\_shallowcu\_driver.bb

time mpif90 -o module\_shallowcu\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_shallowcu\_driver.f90

0.26user 0.03system 0:00.30elapsed 100%CPU (0avgtext+0avgdata 44176maxresident)k

0inputs+144outputs (0major+13317minor)pagefaults 0swaps

1.40user 0.11system 0:01.50elapsed 100%CPU (0avgtext+0avgdata 136756maxresident)k

0inputs+3280outputs (0major+38428minor)pagefaults 0swaps

make[3]: Leaving directory '/home/wrf/WRF/WRF-4.1.5/phys'

ar: `u' modifier ignored since `D' is the default (see `U')

make[2]: Leaving directory '/home/wrf/WRF/WRF-4.1.5/phys'

make[1]: Leaving directory '/home/wrf/WRF/WRF-4.1.5'

if [ 0 -eq 1 ] ; then make -i -r MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " chemics ; fi

if [ 1 -eq 1 ] ; then make -i -r MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " em\_core ; fi

make[1]: Entering directory '/home/wrf/WRF/WRF-4.1.5'

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if [ 0 -eq 0 ] ; then \

CF= ; \

else \

CF="../chem/module\_aerosols\_sorgam.o ../chem/module\_gocart\_aerosols.o ../chem/module\_mosaic\_driver.o ../chem/module\_input\_tracer.o ../chem/module\_aerosols\_soa\_vbs.o" ; \

fi

( cd dyn\_em ; make -i -r -j 2 CF="" )

make[2]: Entering directory '/home/wrf/WRF/WRF-4.1.5/dyn\_em'

rm -f module\_advect\_em.o

rm -f module\_big\_step\_utilities\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_advect\_em.F > module\_advect\_em.G

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_big\_step\_utilities\_em.F > module\_big\_step\_utilities\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_big\_step\_utilities\_em.G > module\_big\_step\_utilities\_em.bb

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_advect\_em.G > module\_advect\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_big\_step\_utilities\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_big\_step\_utilities\_em.f90

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_advect\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_advect\_em.f90

rm -f module\_big\_step\_utilities\_em.G module\_big\_step\_utilities\_em.bb

time mpif90 -o module\_big\_step\_utilities\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_big\_step\_utilities\_em.f90

rm -f module\_advect\_em.G module\_advect\_em.bb

time mpif90 -o module\_advect\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_advect\_em.f90

6.97user 0.19system 0:07.17elapsed 99%CPU (0avgtext+0avgdata 341500maxresident)k

0inputs+4376outputs (0major+89930minor)pagefaults 0swaps

rm -f module\_small\_step\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_small\_step\_em.F > module\_small\_step\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_small\_step\_em.G > module\_small\_step\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_small\_step\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_small\_step\_em.f90

rm -f module\_small\_step\_em.G module\_small\_step\_em.bb

time mpif90 -o module\_small\_step\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_small\_step\_em.f90

1.99user 0.04system 0:02.03elapsed 100%CPU (0avgtext+0avgdata 126832maxresident)k

0inputs+1504outputs (0major+34215minor)pagefaults 0swaps

rm -f module\_damping\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_damping\_em.F > module\_damping\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_damping\_em.G > module\_damping\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_damping\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_damping\_em.f90

rm -f module\_damping\_em.G module\_damping\_em.bb

time mpif90 -o module\_damping\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_damping\_em.f90

0.07user 0.03system 0:00.11elapsed 88%CPU (0avgtext+0avgdata 28388maxresident)k

0inputs+40outputs (0major+8048minor)pagefaults 0swaps

rm -f module\_solvedebug\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_solvedebug\_em.F > module\_solvedebug\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_solvedebug\_em.G > module\_solvedebug\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_solvedebug\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_solvedebug\_em.f90

rm -f module\_solvedebug\_em.G module\_solvedebug\_em.bb

time mpif90 -o module\_solvedebug\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_solvedebug\_em.f90

0.19user 0.03system 0:00.22elapsed 100%CPU (0avgtext+0avgdata 37116maxresident)k

0inputs+184outputs (0major+10385minor)pagefaults 0swaps

rm -f module\_bc\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_bc\_em.F > module\_bc\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_bc\_em.G > module\_bc\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_bc\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_bc\_em.f90

rm -f module\_bc\_em.G module\_bc\_em.bb

time mpif90 -o module\_bc\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_bc\_em.f90

0.91user 0.04system 0:00.96elapsed 99%CPU (0avgtext+0avgdata 84412maxresident)k

0inputs+896outputs (0major+24180minor)pagefaults 0swaps

rm -f module\_init\_utilities.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_init\_utilities.F > module\_init\_utilities.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_init\_utilities.G > module\_init\_utilities.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_init\_utilities.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_init\_utilities.f90

rm -f module\_init\_utilities.G module\_init\_utilities.bb

time mpif90 -o module\_init\_utilities.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_init\_utilities.f90

0.05user 0.01system 0:00.07elapsed 89%CPU (0avgtext+0avgdata 25924maxresident)k

0inputs+24outputs (0major+7424minor)pagefaults 0swaps

rm -f module\_wps\_io\_arw.o

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_wps\_io\_arw.F > module\_wps\_io\_arw.b

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_wps\_io\_arw.b > module\_wps\_io\_arw.f90

rm -f module\_wps\_io\_arw.b

if fgrep -iq '!$OMP' module\_wps\_io\_arw.f90 ; then \

if [ -n "" ] ; then echo COMPILING module\_wps\_io\_arw.F WITH OMP ; fi ; \

time mpif90 -c -O0 -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_wps\_io\_arw.f90 ; \

else \

if [ -n "" ] ; then echo COMPILING module\_wps\_io\_arw.F WITHOUT OMP ; fi ; \

time mpif90 -c -O0 -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_wps\_io\_arw.f90 ; \

fi

0.67user 0.05system 0:00.73elapsed 99%CPU (0avgtext+0avgdata 80116maxresident)k

0inputs+2320outputs (0major+24008minor)pagefaults 0swaps

rm -f module\_polarfft.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_polarfft.F > module\_polarfft.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_polarfft.G > module\_polarfft.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_polarfft.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_polarfft.f90

rm -f module\_polarfft.G module\_polarfft.bb

time mpif90 -o module\_polarfft.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_polarfft.f90

0.86user 0.05system 0:00.92elapsed 99%CPU (0avgtext+0avgdata 70584maxresident)k

0inputs+800outputs (0major+20114minor)pagefaults 0swaps

rm -f module\_force\_scm.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_force\_scm.F > module\_force\_scm.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_force\_scm.G > module\_force\_scm.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_force\_scm.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_force\_scm.f90

rm -f module\_force\_scm.G module\_force\_scm.bb

time mpif90 -o module\_force\_scm.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_force\_scm.f90

1.23user 0.06system 0:01.30elapsed 100%CPU (0avgtext+0avgdata 122192maxresident)k

0inputs+728outputs (0major+34966minor)pagefaults 0swaps

rm -f module\_convtrans\_prep.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_convtrans\_prep.F > module\_convtrans\_prep.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_convtrans\_prep.G > module\_convtrans\_prep.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_convtrans\_prep.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_convtrans\_prep.f90

rm -f module\_convtrans\_prep.G module\_convtrans\_prep.bb

time mpif90 -o module\_convtrans\_prep.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_convtrans\_prep.f90

0.21user 0.04system 0:00.25elapsed 100%CPU (0avgtext+0avgdata 43068maxresident)k

0inputs+160outputs (0major+11928minor)pagefaults 0swaps

rm -f module\_stoch.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_stoch.F > module\_stoch.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_stoch.G > module\_stoch.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_stoch.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_stoch.f90

rm -f module\_stoch.G module\_stoch.bb

time mpif90 -o module\_stoch.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_stoch.f90

1.05user 0.05system 0:01.10elapsed 99%CPU (0avgtext+0avgdata 78396maxresident)k

0inputs+1048outputs (0major+23635minor)pagefaults 0swaps

rm -f module\_sfs\_nba.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_sfs\_nba.F > module\_sfs\_nba.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_sfs\_nba.G > module\_sfs\_nba.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_sfs\_nba.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_sfs\_nba.f90

rm -f module\_sfs\_nba.G module\_sfs\_nba.bb

time mpif90 -o module\_sfs\_nba.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_sfs\_nba.f90

0.71user 0.02system 0:00.74elapsed 99%CPU (0avgtext+0avgdata 65196maxresident)k

0inputs+632outputs (0major+17664minor)pagefaults 0swaps

rm -f module\_avgflx\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_avgflx\_em.F > module\_avgflx\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_avgflx\_em.G > module\_avgflx\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_avgflx\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_avgflx\_em.f90

rm -f module\_avgflx\_em.G module\_avgflx\_em.bb

time mpif90 -o module\_avgflx\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_avgflx\_em.f90

0.19user 0.03system 0:00.22elapsed 98%CPU (0avgtext+0avgdata 36208maxresident)k

0inputs+272outputs (0major+10027minor)pagefaults 0swaps

rm -f module\_after\_all\_rk\_steps.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_after\_all\_rk\_steps.F > module\_after\_all\_rk\_steps.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_after\_all\_rk\_steps.G > module\_after\_all\_rk\_steps.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_after\_all\_rk\_steps.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_after\_all\_rk\_steps.f90

rm -f module\_after\_all\_rk\_steps.G module\_after\_all\_rk\_steps.bb

time mpif90 -o module\_after\_all\_rk\_steps.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_after\_all\_rk\_steps.f90

0.88user 0.07system 0:00.96elapsed 99%CPU (0avgtext+0avgdata 225864maxresident)k

0inputs+168outputs (0major+63188minor)pagefaults 0swaps

rm -f init\_modules\_em.o

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe init\_modules\_em.F > init\_modules\_em.b

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp init\_modules\_em.b > init\_modules\_em.f90

rm -f init\_modules\_em.b

if fgrep -iq '!$OMP' init\_modules\_em.f90 ; then \

if [ -n "" ] ; then echo COMPILING init\_modules\_em.F WITH OMP ; fi ; \

time mpif90 -c -O0 -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include init\_modules\_em.f90 ; \

else \

if [ -n "" ] ; then echo COMPILING init\_modules\_em.F WITHOUT OMP ; fi ; \

time mpif90 -c -O0 -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include init\_modules\_em.f90 ; \

fi

0.03user 0.02system 0:00.06elapsed 90%CPU (0avgtext+0avgdata 19896maxresident)k

0inputs+16outputs (0major+6305minor)pagefaults 0swaps

rm -f start\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" start\_em.F > start\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp start\_em.G > start\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe start\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > start\_em.f90

rm -f start\_em.G start\_em.bb

time mpif90 -o start\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include start\_em.f90

21.72user 0.22system 0:21.96elapsed 99%CPU (0avgtext+0avgdata 607036maxresident)k

0inputs+8680outputs (0major+158504minor)pagefaults 0swaps

rm -f shift\_domain\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" shift\_domain\_em.F > shift\_domain\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp shift\_domain\_em.G > shift\_domain\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe shift\_domain\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > shift\_domain\_em.f90

rm -f shift\_domain\_em.G shift\_domain\_em.bb

time mpif90 -o shift\_domain\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include shift\_domain\_em.f90

1.63user 0.10system 0:01.73elapsed 100%CPU (0avgtext+0avgdata 236676maxresident)k

0inputs+16outputs (0major+93745minor)pagefaults 0swaps

rm -f couple\_or\_uncouple\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" couple\_or\_uncouple\_em.F > couple\_or\_uncouple\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp couple\_or\_uncouple\_em.G > couple\_or\_uncouple\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe couple\_or\_uncouple\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > couple\_or\_uncouple\_em.f90

rm -f couple\_or\_uncouple\_em.G couple\_or\_uncouple\_em.bb

time mpif90 -o couple\_or\_uncouple\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include couple\_or\_uncouple\_em.f90

1.49user 0.07system 0:01.56elapsed 100%CPU (0avgtext+0avgdata 227164maxresident)k

0inputs+488outputs (0major+77486minor)pagefaults 0swaps

rm -f nest\_init\_utils.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" nest\_init\_utils.F > nest\_init\_utils.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp nest\_init\_utils.G > nest\_init\_utils.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe nest\_init\_utils.bb | /lib/cpp -P -nostdinc -traditional-cpp > nest\_init\_utils.f90

rm -f nest\_init\_utils.G nest\_init\_utils.bb

time mpif90 -o nest\_init\_utils.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include nest\_init\_utils.f90

8.40user 0.14system 0:08.55elapsed 99%CPU (0avgtext+0avgdata 244420maxresident)k

0inputs+1760outputs (0major+117152minor)pagefaults 0swaps

rm -f adapt\_timestep\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" adapt\_timestep\_em.F > adapt\_timestep\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp adapt\_timestep\_em.G > adapt\_timestep\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe adapt\_timestep\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > adapt\_timestep\_em.f90

rm -f adapt\_timestep\_em.G adapt\_timestep\_em.bb

time mpif90 -o adapt\_timestep\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include adapt\_timestep\_em.f90

0.36user 0.04system 0:00.41elapsed 99%CPU (0avgtext+0avgdata 58820maxresident)k

0inputs+104outputs (0major+18419minor)pagefaults 0swaps

rm -f interp\_domain\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" interp\_domain\_em.F > interp\_domain\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp interp\_domain\_em.G > interp\_domain\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe interp\_domain\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > interp\_domain\_em.f90

rm -f interp\_domain\_em.G interp\_domain\_em.bb

time mpif90 -o interp\_domain\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include interp\_domain\_em.f90

0.03user 0.01system 0:00.06elapsed 95%CPU (0avgtext+0avgdata 22216maxresident)k

0inputs+16outputs (0major+7034minor)pagefaults 0swaps

rm -f module\_diffusion\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_diffusion\_em.F > module\_diffusion\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_diffusion\_em.G > module\_diffusion\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_diffusion\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_diffusion\_em.f90

rm -f module\_diffusion\_em.G module\_diffusion\_em.bb

time mpif90 -o module\_diffusion\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_diffusion\_em.f90

2.09user 0.11system 0:02.22elapsed 99%CPU (0avgtext+0avgdata 263988maxresident)k

0inputs+712outputs (0major+83835minor)pagefaults 0swaps

rm -f module\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_em.F > module\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_em.G > module\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_em.f90

rm -f module\_em.G module\_em.bb

time mpif90 -o module\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_em.f90

1.47user 0.05system 0:01.52elapsed 100%CPU (0avgtext+0avgdata 111024maxresident)k

0inputs+1576outputs (0major+33434minor)pagefaults 0swaps

rm -f module\_sfs\_driver.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_sfs\_driver.F > module\_sfs\_driver.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_sfs\_driver.G > module\_sfs\_driver.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_sfs\_driver.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_sfs\_driver.f90

rm -f module\_sfs\_driver.G module\_sfs\_driver.bb

time mpif90 -o module\_sfs\_driver.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_sfs\_driver.f90

1.38user 0.08system 0:01.46elapsed 99%CPU (0avgtext+0avgdata 229712maxresident)k

0inputs+288outputs (0major+66271minor)pagefaults 0swaps

rm -f module\_first\_rk\_step\_part1.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_first\_rk\_step\_part1.F > module\_first\_rk\_step\_part1.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_first\_rk\_step\_part1.G > module\_first\_rk\_step\_part1.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_first\_rk\_step\_part1.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_first\_rk\_step\_part1.f90

rm -f module\_first\_rk\_step\_part1.G module\_first\_rk\_step\_part1.bb

time mpif90 -o module\_first\_rk\_step\_part1.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_first\_rk\_step\_part1.f90

5.90user 0.11system 0:06.02elapsed 99%CPU (0avgtext+0avgdata 354832maxresident)k

0inputs+4064outputs (0major+96003minor)pagefaults 0swaps

rm -f module\_first\_rk\_step\_part2.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" module\_first\_rk\_step\_part2.F > module\_first\_rk\_step\_part2.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp module\_first\_rk\_step\_part2.G > module\_first\_rk\_step\_part2.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe module\_first\_rk\_step\_part2.bb | /lib/cpp -P -nostdinc -traditional-cpp > module\_first\_rk\_step\_part2.f90

rm -f module\_first\_rk\_step\_part2.G module\_first\_rk\_step\_part2.bb

time mpif90 -o module\_first\_rk\_step\_part2.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include module\_first\_rk\_step\_part2.f90

1.47user 0.08system 0:01.55elapsed 99%CPU (0avgtext+0avgdata 227924maxresident)k

0inputs+672outputs (0major+67827minor)pagefaults 0swaps

12.52user 0.17system 0:12.69elapsed 99%CPU (0avgtext+0avgdata 230868maxresident)k

0inputs+1768outputs (0major+106621minor)pagefaults 0swaps

rm -f solve\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" solve\_em.F > solve\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp solve\_em.G > solve\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe solve\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > solve\_em.f90

rm -f solve\_em.G solve\_em.bb

time mpif90 -o solve\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include solve\_em.f90

5.61user 0.15system 0:05.75elapsed 100%CPU (0avgtext+0avgdata 309784maxresident)k

0inputs+2472outputs (0major+110582minor)pagefaults 0swaps

ar ru ../main/libwrflib.a module\_advect\_em.o module\_diffusion\_em.o module\_small\_step\_em.o module\_big\_step\_utilities\_em.o module\_em.o module\_solvedebug\_em.o module\_bc\_em.o module\_init\_utilities.o module\_wps\_io\_arw.o module\_damping\_em.o module\_polarfft.o module\_force\_scm.o module\_first\_rk\_step\_part1.o module\_first\_rk\_step\_part2.o module\_avgflx\_em.o module\_sfs\_nba.o module\_convtrans\_prep.o module\_sfs\_driver.o module\_stoch.o module\_after\_all\_rk\_steps.o init\_modules\_em.o solve\_em.o start\_em.o shift\_domain\_em.o couple\_or\_uncouple\_em.o nest\_init\_utils.o adapt\_timestep\_em.o interp\_domain\_em.o

ar: `u' modifier ignored since `D' is the default (see `U')

make[2]: Leaving directory '/home/wrf/WRF/WRF-4.1.5/dyn\_em'

make[1]: Leaving directory '/home/wrf/WRF/WRF-4.1.5'

if [ 0 -eq 1 ] ; then make -i -r MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " nmm\_core ; fi

if [ 0 -eq 1 ] ; then make -i -r MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " wrf\_hydro ; fi

( cd main ; make -i -r RLFLAGS="" MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " SOLVER=em em\_wrf )

make[1]: Entering directory '/home/wrf/WRF/WRF-4.1.5/main'

rm -f ../main/module\_wrf\_top.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" ../main/module\_wrf\_top.F > ../main/module\_wrf\_top.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp ../main/module\_wrf\_top.G > ../main/module\_wrf\_top.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe ../main/module\_wrf\_top.bb | /lib/cpp -P -nostdinc -traditional-cpp > ../main/module\_wrf\_top.f90

rm -f ../main/module\_wrf\_top.G ../main/module\_wrf\_top.bb

time mpif90 -o ../main/module\_wrf\_top.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include ../main/module\_wrf\_top.f90

0.62user 0.04system 0:00.65elapsed 100%CPU (0avgtext+0avgdata 54652maxresident)k

0inputs+616outputs (0major+17761minor)pagefaults 0swaps

rm -f wrf.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" wrf.F > wrf.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp wrf.G > wrf.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe wrf.bb | /lib/cpp -P -nostdinc -traditional-cpp > wrf.f90

rm -f wrf.G wrf.bb

time mpif90 -o wrf.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include wrf.f90

0.08user 0.02system 0:00.09elapsed 102%CPU (0avgtext+0avgdata 28908maxresident)k

0inputs+16outputs (0major+9606minor)pagefaults 0swaps

ranlib libwrflib.a

time mpif90 -o wrf.exe -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 wrf.o ../main/module\_wrf\_top.o libwrflib.a /home/wrf/WRF/WRF-4.1.5/external/fftpack/fftpack5/libfftpack.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib1/libio\_grib1.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib\_share/libio\_grib\_share.a /home/wrf/WRF/WRF-4.1.5/external/io\_int/libwrfio\_int.a -L/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -lesmf\_time /home/wrf/WRF/WRF-4.1.5/external/RSL\_LITE/librsl\_lite.a /home/wrf/WRF/WRF-4.1.5/frame/module\_internal\_header\_util.o /home/wrf/WRF/WRF-4.1.5/frame/pack\_utils.o -L/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -lwrfio\_nf -L/home/wrf/WRF/libs/netcdf/lib -lnetcdff -lnetcdf

0.23user 0.11system 0:00.34elapsed 100%CPU (0avgtext+0avgdata 122292maxresident)k

0inputs+86680outputs (0major+44656minor)pagefaults 0swaps

make[1]: Leaving directory '/home/wrf/WRF/WRF-4.1.5/main'

( cd run ; /bin/rm -f wrf.exe ; ln -s ../main/wrf.exe . )

if [ 0 -eq 1 ] ; then \

( cd main ; make -i -r RLFLAGS="" MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " SOLVER=em em\_wrf\_SST\_ESMF ) ; \

fi

build started: Wed Feb 24 15:47:39 IST 2021

build completed: Wed Feb 24 15:54:58 IST 2021

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( cd main ; make -i -r RLFLAGS="" MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " SOLVER=em IDEAL\_CASE=real em\_real )

make[1]: Entering directory '/home/wrf/WRF/WRF-4.1.5/main'

rm -f ../dyn\_em/module\_initialize\_real.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" ../dyn\_em/module\_initialize\_real.F > ../dyn\_em/module\_initialize\_real.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp ../dyn\_em/module\_initialize\_real.G > ../dyn\_em/module\_initialize\_real.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe ../dyn\_em/module\_initialize\_real.bb | /lib/cpp -P -nostdinc -traditional-cpp > ../dyn\_em/module\_initialize\_real.f90

rm -f ../dyn\_em/module\_initialize\_real.G ../dyn\_em/module\_initialize\_real.bb

time mpif90 -o ../dyn\_em/module\_initialize\_real.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include ../dyn\_em/module\_initialize\_real.f90

9.66user 0.22system 0:09.88elapsed 100%CPU (0avgtext+0avgdata 427924maxresident)k

0inputs+4568outputs (0major+161184minor)pagefaults 0swaps

rm -f ndown\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" ndown\_em.F > ndown\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp ndown\_em.G > ndown\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe ndown\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > ndown\_em.f90

rm -f ndown\_em.G ndown\_em.bb

time mpif90 -o ndown\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include ndown\_em.f90

5.05user 0.10system 0:05.15elapsed 100%CPU (0avgtext+0avgdata 355592maxresident)k

0inputs+1648outputs (0major+98817minor)pagefaults 0swaps

rm -f tc\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" tc\_em.F > tc\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp tc\_em.G > tc\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe tc\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > tc\_em.f90

rm -f tc\_em.G tc\_em.bb

time mpif90 -o tc\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include tc\_em.f90

4.34user 0.09system 0:04.44elapsed 100%CPU (0avgtext+0avgdata 254440maxresident)k

0inputs+1680outputs (0major+72499minor)pagefaults 0swaps

rm -f real\_em.o

sed -e "s/^\!.\*'.\*//" -e "s/^ \*\!.\*'.\*//" real\_em.F > real\_em.G

/lib/cpp -P -nostdinc -I/home/wrf/WRF/WRF-4.1.5/inc -DEM\_CORE=1 -DNMM\_CORE=0 -DNMM\_MAX\_DIM=2600 -DDA\_CORE=0 -DWRFPLUS=0 -DIWORDSIZE=4 -DDWORDSIZE=8 -DRWORDSIZE=4 -DLWORDSIZE=4 -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM -DDM\_PARALLEL -DNETCDF -DLANDREAD\_STUB=1 -DUSE\_ALLOCATABLES -Dwrfmodel -DGRIB1 -DINTIO -DKEEP\_INT\_AROUND -DLIMIT\_ARGS -DBUILD\_RRTMG\_FAST=1 -DSHOW\_ALL\_VARS\_USED=0 -DCONFIG\_BUF\_LEN=65536 -DMAX\_DOMAINS\_F=21 -DMAX\_HISTORY=25 -DNMM\_NEST=0 -I. -traditional-cpp real\_em.G > real\_em.bb

/home/wrf/WRF/WRF-4.1.5/tools/standard.exe real\_em.bb | /lib/cpp -P -nostdinc -traditional-cpp > real\_em.f90

rm -f real\_em.G real\_em.bb

time mpif90 -o real\_em.o -c -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 -I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include real\_em.f90

2.84user 0.08system 0:02.92elapsed 100%CPU (0avgtext+0avgdata 106408maxresident)k

0inputs+776outputs (0major+39616minor)pagefaults 0swaps

ranlib libwrflib.a

time mpif90 -o ndown.exe -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 ndown\_em.o ../dyn\_em/module\_initialize\_real.o libwrflib.a /home/wrf/WRF/WRF-4.1.5/external/fftpack/fftpack5/libfftpack.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib1/libio\_grib1.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib\_share/libio\_grib\_share.a /home/wrf/WRF/WRF-4.1.5/external/io\_int/libwrfio\_int.a -L/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -lesmf\_time /home/wrf/WRF/WRF-4.1.5/external/RSL\_LITE/librsl\_lite.a /home/wrf/WRF/WRF-4.1.5/frame/module\_internal\_header\_util.o /home/wrf/WRF/WRF-4.1.5/frame/pack\_utils.o -L/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -lwrfio\_nf -L/home/wrf/WRF/libs/netcdf/lib -lnetcdff -lnetcdf

0.23user 0.09system 0:00.33elapsed 99%CPU (0avgtext+0avgdata 113604maxresident)k

0inputs+79280outputs (0major+41999minor)pagefaults 0swaps

time mpif90 -o tc.exe -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 tc\_em.o ../dyn\_em/module\_initialize\_real.o libwrflib.a /home/wrf/WRF/WRF-4.1.5/external/fftpack/fftpack5/libfftpack.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib1/libio\_grib1.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib\_share/libio\_grib\_share.a /home/wrf/WRF/WRF-4.1.5/external/io\_int/libwrfio\_int.a -L/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -lesmf\_time /home/wrf/WRF/WRF-4.1.5/external/RSL\_LITE/librsl\_lite.a /home/wrf/WRF/WRF-4.1.5/frame/module\_internal\_header\_util.o /home/wrf/WRF/WRF-4.1.5/frame/pack\_utils.o -L/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -lwrfio\_nf -L/home/wrf/WRF/libs/netcdf/lib -lnetcdff -lnetcdf

0.24user 0.06system 0:00.30elapsed 100%CPU (0avgtext+0avgdata 112140maxresident)k

0inputs+78128outputs (0major+41550minor)pagefaults 0swaps

time mpif90 -o real.exe -O2 -ftree-vectorize -funroll-loops -w -ffree-form -ffree-line-length-none -fconvert=big-endian -frecord-marker=4 real\_em.o ../dyn\_em/module\_initialize\_real.o libwrflib.a /home/wrf/WRF/WRF-4.1.5/external/fftpack/fftpack5/libfftpack.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib1/libio\_grib1.a /home/wrf/WRF/WRF-4.1.5/external/io\_grib\_share/libio\_grib\_share.a /home/wrf/WRF/WRF-4.1.5/external/io\_int/libwrfio\_int.a -L/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -lesmf\_time /home/wrf/WRF/WRF-4.1.5/external/RSL\_LITE/librsl\_lite.a /home/wrf/WRF/WRF-4.1.5/frame/module\_internal\_header\_util.o /home/wrf/WRF/WRF-4.1.5/frame/pack\_utils.o -L/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -lwrfio\_nf -L/home/wrf/WRF/libs/netcdf/lib -lnetcdff -lnetcdf

0.28user 0.11system 0:00.39elapsed 100%CPU (0avgtext+0avgdata 113128maxresident)k

0inputs+79056outputs (0major+41813minor)pagefaults 0swaps

make[1]: Leaving directory '/home/wrf/WRF/WRF-4.1.5/main'

( cd test/em\_real ; /bin/rm -f wrf.exe ; ln -s ../../main/wrf.exe . )

if [ 0 -eq 1 ] ; then \

( cd main ; make -i -r RLFLAGS="" MODULE\_DIRS="-I../dyn\_em -I../dyn\_nmm -I/home/wrf/WRF/WRF-4.1.5/external/esmf\_time\_f90 -I/home/wrf/WRF/WRF-4.1.5/main -I/home/wrf/WRF/WRF-4.1.5/external/io\_netcdf -I/home/wrf/WRF/WRF-4.1.5/external/io\_int -I/home/wrf/WRF/WRF-4.1.5/frame -I/home/wrf/WRF/WRF-4.1.5/share -I/home/wrf/WRF/WRF-4.1.5/phys -I/home/wrf/WRF/WRF-4.1.5/wrftladj -I/home/wrf/WRF/WRF-4.1.5/chem -I/home/wrf/WRF/WRF-4.1.5/inc -I/home/wrf/WRF/libs/netcdf/include " SOLVER=em IDEAL\_CASE=real em\_wrf\_SST\_ESMF ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f wrf.exe ; ln -s ../../main/wrf.exe . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f wrf\_SST\_ESMF.exe ; ln -s ../../main/wrf\_SST\_ESMF.exe . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f real.exe ; ln -s ../../main/real.exe . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f README.namelist ; ln -s ../../run/README.namelist . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f ETAMPNEW\_DATA.expanded\_rain ETAMPNEW\_DATA RRTM\_DATA RRTMG\_LW\_DATA RRTMG\_SW\_DATA ; \

ln -sf ../../run/ETAMPNEW\_DATA . ; \

ln -sf ../../run/ETAMPNEW\_DATA.expanded\_rain . ; \

ln -sf ../../run/RRTM\_DATA . ; \

ln -sf ../../run/RRTMG\_LW\_DATA . ; \

ln -sf ../../run/RRTMG\_SW\_DATA . ; \

ln -sf ../../run/CAM\_ABS\_DATA . ; \

ln -sf ../../run/CAM\_AEROPT\_DATA . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP4.5 . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP6 . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP8.5 CAMtr\_volume\_mixing\_ratio ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.A1B . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.A2 . ; \

ln -sf ../../run/CLM\_ALB\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_ALB\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_ASM\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_ASM\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_DRDSDT0\_DATA . ; \

ln -sf ../../run/CLM\_EXT\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_EXT\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_KAPPA\_DATA . ; \

ln -sf ../../run/CLM\_TAU\_DATA . ; \

ln -sf ../../run/ozone.formatted . ; \

ln -sf ../../run/ozone\_lat.formatted . ; \

ln -sf ../../run/ozone\_plev.formatted . ; \

ln -sf ../../run/aerosol.formatted . ; \

ln -sf ../../run/aerosol\_lat.formatted . ; \

ln -sf ../../run/aerosol\_lon.formatted . ; \

ln -sf ../../run/aerosol\_plev.formatted . ; \

ln -sf ../../run/CCN\_ACTIVATE.BIN . ; \

ln -sf ../../run/p3\_lookup\_table\_1.dat-v4.1 . ; \

ln -sf ../../run/p3\_lookup\_table\_2.dat-v4.1 . ; \

ln -sf ../../run/HLC.TBL . ; \

ln -sf ../../run/wind-turbine-1.tbl . ; \

ln -sf ../../run/ishmael-gamma-tab.bin . ; \

ln -sf ../../run/ishmael-qi-qc.bin . ; \

ln -sf ../../run/ishmael-qi-qr.bin . ; \

ln -sf ../../run/BROADBAND\_CLOUD\_GODDARD.bin . ; \

if [ 4 -eq 8 ] ; then \

ln -sf ../../run/ETAMPNEW\_DATA\_DBL ETAMPNEW\_DATA ; \

ln -sf ../../run/ETAMPNEW\_DATA.expanded\_rain\_DBL ETAMPNEW\_DATA.expanded\_rain ; \

ln -sf ../../run/RRTM\_DATA\_DBL RRTM\_DATA ; \

ln -sf ../../run/RRTMG\_LW\_DATA\_DBL RRTMG\_LW\_DATA ; \

ln -sf ../../run/RRTMG\_SW\_DATA\_DBL RRTMG\_SW\_DATA ; \

fi ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f GENPARM.TBL ; ln -s ../../run/GENPARM.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f LANDUSE.TBL ; ln -s ../../run/LANDUSE.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f SOILPARM.TBL ; ln -s ../../run/SOILPARM.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f URBPARM.TBL ; ln -s ../../run/URBPARM.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f VEGPARM.TBL ; ln -s ../../run/VEGPARM.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f MPTABLE.TBL ; ln -s ../../run/MPTABLE.TBL . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f tr49t67 ; ln -s ../../run/tr49t67 . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f tr49t85 ; ln -s ../../run/tr49t85 . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f tr67t85 ; ln -s ../../run/tr67t85 . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f gribmap.txt ; ln -s ../../run/gribmap.txt . ) ; \

( cd test/em\_esmf\_exp ; /bin/rm -f grib2map.tbl ; ln -s ../../run/grib2map.tbl . ) ; \

fi

( cd test/em\_real ; /bin/rm -f real.exe ; ln -s ../../main/real.exe . )

( cd test/em\_real ; /bin/rm -f tc.exe ; ln -s ../../main/tc.exe . )

( cd test/em\_real ; /bin/rm -f ndown.exe ; ln -s ../../main/ndown.exe . )

( cd test/em\_real ; /bin/rm -f README.namelist ; ln -s ../../run/README.namelist . )

( cd test/em\_real ; /bin/rm -f ETAMPNEW\_DATA.expanded\_rain ETAMPNEW\_DATA RRTM\_DATA RRTMG\_LW\_DATA RRTMG\_SW\_DATA ; \

ln -sf ../../run/ETAMPNEW\_DATA . ; \

ln -sf ../../run/ETAMPNEW\_DATA.expanded\_rain . ; \

ln -sf ../../run/RRTM\_DATA . ; \

ln -sf ../../run/RRTMG\_LW\_DATA . ; \

ln -sf ../../run/RRTMG\_SW\_DATA . ; \

ln -sf ../../run/CAM\_ABS\_DATA . ; \

ln -sf ../../run/CAM\_AEROPT\_DATA . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP4.5 . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP6 . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.RCP8.5 CAMtr\_volume\_mixing\_ratio ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.A1B . ; \

ln -sf ../../run/CAMtr\_volume\_mixing\_ratio.A2 . ; \

ln -sf ../../run/CLM\_ALB\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_ALB\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_ASM\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_ASM\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_DRDSDT0\_DATA . ; \

ln -sf ../../run/CLM\_EXT\_ICE\_DFS\_DATA . ; \

ln -sf ../../run/CLM\_EXT\_ICE\_DRC\_DATA . ; \

ln -sf ../../run/CLM\_KAPPA\_DATA . ; \

ln -sf ../../run/CLM\_TAU\_DATA . ; \

ln -sf ../../run/ozone.formatted . ; \

ln -sf ../../run/ozone\_lat.formatted . ; \

ln -sf ../../run/ozone\_plev.formatted . ; \

ln -sf ../../run/aerosol.formatted . ; \

ln -sf ../../run/aerosol\_lat.formatted . ; \

ln -sf ../../run/aerosol\_lon.formatted . ; \

ln -sf ../../run/aerosol\_plev.formatted . ; \

ln -sf ../../run/capacity.asc . ; \

ln -sf ../../run/coeff\_p.asc . ; \

ln -sf ../../run/coeff\_q.asc . ; \

ln -sf ../../run/constants.asc . ; \

ln -sf ../../run/masses.asc . ; \

ln -sf ../../run/termvels.asc . ; \

ln -sf ../../run/kernels.asc\_s\_0\_03\_0\_9 . ; \

ln -sf ../../run/kernels\_z.asc . ; \

ln -sf ../../run/bulkdens.asc\_s\_0\_03\_0\_9 . ; \

ln -sf ../../run/bulkradii.asc\_s\_0\_03\_0\_9 . ; \

ln -sf ../../run/CCN\_ACTIVATE.BIN . ; \

ln -sf ../../run/p3\_lookup\_table\_1.dat-v4.1 . ; \

ln -sf ../../run/p3\_lookup\_table\_2.dat-v4.1 . ; \

ln -sf ../../run/HLC.TBL . ; \

ln -sf ../../run/wind-turbine-1.tbl . ; \

ln -sf ../../run/ishmael-gamma-tab.bin . ; \

ln -sf ../../run/ishmael-qi-qc.bin . ; \

ln -sf ../../run/ishmael-qi-qr.bin . ; \

ln -sf ../../run/BROADBAND\_CLOUD\_GODDARD.bin . ; \

if [ 4 -eq 8 ] ; then \

ln -sf ../../run/ETAMPNEW\_DATA\_DBL ETAMPNEW\_DATA ; \

ln -sf ../../run/ETAMPNEW\_DATA.expanded\_rain\_DBL ETAMPNEW\_DATA.expanded\_rain ; \

ln -sf ../../run/RRTM\_DATA\_DBL RRTM\_DATA ; \

ln -sf ../../run/RRTMG\_LW\_DATA\_DBL RRTMG\_LW\_DATA ; \

ln -sf ../../run/RRTMG\_SW\_DATA\_DBL RRTMG\_SW\_DATA ; \

fi )

( cd test/em\_real ; /bin/rm -f GENPARM.TBL ; ln -s ../../run/GENPARM.TBL . )

( cd test/em\_real ; /bin/rm -f LANDUSE.TBL ; ln -s ../../run/LANDUSE.TBL . )

( cd test/em\_real ; /bin/rm -f SOILPARM.TBL ; ln -s ../../run/SOILPARM.TBL . )

( cd test/em\_real ; /bin/rm -f URBPARM.TBL ; ln -s ../../run/URBPARM.TBL . )

( cd test/em\_real ; /bin/rm -f VEGPARM.TBL ; ln -s ../../run/VEGPARM.TBL . )

( cd test/em\_real ; /bin/rm -f MPTABLE.TBL ; ln -s ../../run/MPTABLE.TBL . )

( cd test/em\_real ; /bin/rm -f tr49t67 ; ln -s ../../run/tr49t67 . )

( cd test/em\_real ; /bin/rm -f tr49t85 ; ln -s ../../run/tr49t85 . )

( cd test/em\_real ; /bin/rm -f tr67t85 ; ln -s ../../run/tr67t85 . )

( cd test/em\_real ; /bin/rm -f gribmap.txt ; ln -s ../../run/gribmap.txt . )

( cd test/em\_real ; /bin/rm -f grib2map.tbl ; ln -s ../../run/grib2map.tbl . )

( cd run ; /bin/rm -f real.exe ; ln -s ../main/real.exe . )

( cd run ; /bin/rm -f tc.exe ; ln -s ../main/tc.exe . )

( cd run ; /bin/rm -f ndown.exe ; ln -s ../main/ndown.exe . )

( cd run ; if test -f namelist.input ; then \

/bin/cp -f namelist.input namelist.input.backup.`date +%Y-%m-%d\_%H\_%M\_%S` ; fi ; \

/bin/rm -f namelist.input ; cp ../test/em\_real/namelist.input . )

==========================================================================

---> Executables successfully built <---

-rwxrwxr-x 1 wrf wrf 40590024 Feb 24 15:55 main/ndown.exe

-rwxrwxr-x 1 wrf wrf 40475240 Feb 24 15:55 main/real.exe

-rwxrwxr-x 1 wrf wrf 40000592 Feb 24 15:55 main/tc.exe

-rwxrwxr-x 1 wrf wrf 44379248 Feb 24 15:54 main/wrf.exe

# **compile script**

#!/bin/csh -f

setenv START\_OF\_COMPILE "`date`"

cont1:

if ( ! -e configure.wrf ) then

echo ""

echo "You must run the 'configure' script before running the 'compile' script!"

echo "Exiting..."

echo ""

exit 1

endif

#----------------------------------

if ( ! $?WRF\_KPP ) setenv WRF\_KPP 0

if ( $WRF\_KPP == 1 ) then

chem/KPP/compile\_wkc

endif

#---------------------------------

set ZAP = .foofoo

set arglist=""

set prev\_was\_j = false

set count = 0

foreach a ( $argv )

@ count ++

if ( "$a" == "-h" ) then

goto hlp

else if ( "$a" == "all\_wrfvar" || "$a" == "gen\_be" ) then

set arglist = ( $arglist $a )

grep "DA\_CORE=1" configure.wrf > /dev/null

if ( ! $status ) then

# If configuration file has DA\_CORE=1, set WRF\_DA\_CORE to 1

setenv WRF\_DA\_CORE 1

else

# If the user ran the configure script without the "wrfda" option, "./compile all\_wrfvar"

# will fail in non-obvious ways, and some executables will be created incorrectly.

# Let's just quit right away to avoid the hassle.

echo ""

echo "To build WRFDA, you must run the 'configure' script with the 'wrfda' option:"

echo " ./configure wrfda"

echo ""

echo "Exiting..."

echo ""

exit 1

endif

else if ( ( "$a" == "nmm\_real" ) || ( "$a" == "nmm\_nest" ) || ( "$a" == "nmm\_hwrf" ) ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrf.exe main/real\_nmm.exe )

if ( "$a" == "nmm\_real" ) then

grep "NMM\_CORE=1" configure.wrf > /dev/null

if ( ! $status ) then

# If configuration file has NMM\_CORE=1 hardwired, ok to set WRF\_NMM\_CORE to 1

if ( ! $?WRF\_NMM\_CORE ) setenv WRF\_NMM\_CORE 1

endif

endif

else if ( `echo $a | cut -c 1-4` == "nmm\_" ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrf.exe main/ideal\_nmm.exe )

else if ( "$a" == "em\_real" ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrf.exe main/real.exe main/ndown.exe main/tc.exe )

else if ( `echo $a | cut -c 1-3` == "em\_" ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrf.exe main/ideal.exe )

else if ( "$a" == "io" ) then

set arglist = ( $arglist $a )

else if ( "$a" == "wrfplus" ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrfplus.exe )

setenv WRF\_EM\_CORE 1

setenv WRF\_PLUS\_CORE 1

echo not sure what to do, but this seems to be legit so far

else if ( "$a" == "wrf" ) then

set arglist = ( $arglist $a )

set ZAP = ( main/wrf.exe )

else if ( "$a" == "-j" ) then

@ JJ = $count + 1

setenv J "-j $argv[$JJ]"

set prev\_was\_j = true

else if ( "$prev\_was\_j" == "true" ) then

set prev\_was\_j = false

else if ( "$a" == "emi\_conv" ) then

set arglist = ( $arglist $a )

set ZAP = ( chem/convert\_emiss.exe )

else

echo "This option is not recognized: $a"

exit ( 1 )

endif

end

if ( $?WRF\_NMM\_CORE ) then

if ( $WRF\_NMM\_CORE == 1 ) then

setenv WRF\_NMM\_NEST 1

endif

endif

if ( "$arglist" == "" ) then

goto hlp

else

unsetenv A2DCASE

setenv A2DCASE `echo $arglist | grep 2d`

unsetenv A1DCASE

setenv A1DCASE `echo $arglist | grep scm`

if ( ! ( $?WRF\_EM\_CORE || $?WRF\_NMM\_CORE \

|| $?WRF\_COAMPS\_CORE || $?WRF\_EXP\_CORE \

|| $?WRF\_PLUS\_CORE )) then

echo 'None of WRF\_EM\_CORE, WRF\_NMM\_CORE, '

# echo ' WRF\_COAMPS\_CORE, or WRF\_EXP\_CORE '

echo ' specified in shell environment.... '

setenv WRF\_EM\_CORE 1

setenv WRF\_NMM\_CORE 0

setenv WRF\_COAMPS\_CORE 0

setenv WRF\_EXP\_CORE 0

setenv WRF\_PLUS\_CORE 0

endif

# these settings get passed down through the environment in the

# calls to Make

if ( ! $?WRF\_HYDRO ) then

setenv WRF\_HYDRO 0

setenv LIB\_WRF\_HYDRO ""

else

if($WRF\_HYDRO == 1) then

setenv LIB\_WRF\_HYDRO "-L../hydro/lib -lHYDRO"

else

setenv LIB\_WRF\_HYDRO ""

endif

endif

if ( ! $?WRF\_DA\_CORE ) setenv WRF\_DA\_CORE 0

if ( ! $?WRF\_EM\_CORE ) setenv WRF\_EM\_CORE 0

if ( ! $?WRF\_NMM\_CORE ) setenv WRF\_NMM\_CORE 0

if ( ! $?WRF\_NMM\_NEST ) setenv WRF\_NMM\_NEST 0

if ( ! $?WRF\_COAMPS\_CORE ) setenv WRF\_COAMPS\_CORE 0

if ( ! $?WRF\_EXP\_CORE ) setenv WRF\_EXP\_CORE 0

if ( ! $?WRF\_PLUS\_CORE ) setenv WRF\_PLUS\_CORE 0

if ( ! $?WRF\_CHEM ) setenv WRF\_CHEM 0

if ( ! $?WRF\_DFI\_RADAR ) setenv WRF\_DFI\_RADAR 0

if ( ! $?HWRF ) setenv HWRF 0

if ( ! $?WRF\_CONVERT ) then

if ( "$arglist" == "convert\_em" ) then

setenv WRF\_CONVERT 1

setenv WRF\_EM\_CORE 0

else

setenv WRF\_CONVERT 0

endif

endif

if ( ! $?DA\_ARCHFLAGS ) setenv DA\_ARCHFLAGS ""

if ( ( $WRF\_CHEM == 1 ) && ( $WRF\_DA\_CORE == 1 ) ) then

echo " "

echo "WRFDA can not be compiled with WRF\_CHEM=1"

echo "unset the WRF\_CHEM env variable."

echo " "

exit

endif

if ( ( $WRF\_DA\_CORE == 1 ) && ( ! -d var ) ) then

echo " "

echo "You need to download and untar the Var code, or"

echo "unset the WRF\_DA\_CORE env variable."

echo " "

exit

endif

if ( ( $WRF\_CHEM == 1 ) && ( ! -d chem ) ) then

echo " "

echo "You need to download and untar the chem code, or"

echo "unset the WRF\_CHEM env variable."

echo " "

exit

endif

set overwrite=0

if ($WRF\_NMM\_CORE == 1 && $WRF\_DFI\_RADAR == 1 ) then

echo "radar dfi not yet supported in NMM core, set WRF\_DFI\_RADAR to 0 "

endif

if ($WRF\_NMM\_CORE == 1 && $WRF\_CHEM == 1 ) then

echo "Chemistry not yet supported in NMM core, set WRF\_CHEM to 0 "

if ( ! -f Registry/Registry ) then

echo Registry file does not exist

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep NMM\_CHEM > /dev/null

if ( $status ) then

set overwrite=1

else

set nmm\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.NMM\_CHEM' | grep -v 'Registry.NMM\_CHEM.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $nmm\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.NMM\_CHEM to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.NMM\_CHEM. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.NMM\_CHEM >> Registry/Registry

endif

# exit 2

endif

if ($WRF\_EM\_CORE == 1 && $WRF\_NMM\_CORE == 1 ) then

echo "Cannot compile both EM and NMM cores in same executable yet."

exit 2

endif

if ($WRF\_EM\_CORE == 0 && $WRF\_NMM\_CORE == 0 && ! $WRF\_CONVERT == 1 ) then

echo "Cannot compile because both EM and NMM cores are set to 0."

exit 2

endif

if ("$arglist" == 'nmm\_real' && $WRF\_NMM\_CORE == 0) then

echo WRF\_NMM\_CORE must be set to 1 in order to compile nmm\_real

exit 2

endif

if (($WRF\_EM\_CORE == 1)&&($WRF\_DA\_CORE == 0 ) &&($WRF\_CHEM == 0 )&&($WRF\_CONVERT == 0)&&($WRF\_PLUS\_CORE == 0) ) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep EM > /dev/null

if ( $status ) then

set overwrite=1

else

set em\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.EM' | grep -v 'Registry.EM.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $em\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.EM to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.EM. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.EM >> Registry/Registry

endif

else if ( ($WRF\_EM\_CORE == 1)&&($WRF\_PLUS\_CORE == 1) ) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep WRFPLUS > /dev/null

if ( $status ) then

set overwrite=1

else

set em\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.tladj' | grep -v 'Registry.tladj.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $em\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.tladj to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.tladj. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.tladj >> Registry/Registry

endif

else if (($WRF\_EM\_CORE == 1)&&($WRF\_CHEM == 1 )) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep EM\_CHEM > /dev/null

if ( $status ) then

set overwrite=1

else

set em\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.EM\_CHEM' | grep -v 'Registry.EM\_CHEM.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $em\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.EM\_CHEM to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.EM\_CHEM. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.EM\_CHEM >> Registry/Registry

endif

else if (($WRF\_EM\_CORE == 1)&&($WRF\_DFI\_RADAR == 1 )) then

if ( ! -f Registry/Registry ) then

set overwrite=1

endif

if ( $overwrite ) then

echo copying Registry/Registry.EM to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.EM. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.EM >> Registry/Registry

endif

else if (($WRF\_EM\_CORE == 0)&&($WRF\_CONVERT == 1 )) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep EM\_CONVERT > /dev/null

if ( $status ) then

set overwrite=1

else

set em\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.EM\_CONVERT' | grep -v 'Registry.EM\_CONVERT.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $em\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.CONVERT to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.CONVERT. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.CONVERT >> Registry/Registry

endif

else if ( $WRF\_DA\_CORE == 1 ) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep WRFVAR > /dev/null

if ( $status ) then

set overwrite=1

else

set nmm\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.NMM' | grep -v 'Registry.NMM.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $nmm\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.wrfvar to Registry/Registry

/bin/rm -f Registry/Registry.rconfig

/bin/cat Registry/Registry.EM\_COMMON | grep '^rconfig' > Registry/Registry.rconfig

echo '## WARNING: this file is autogenerated from Registry/Registry.wrfvar Registry/Registry.EM\_COMMON.var. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.wrfvar >> Registry/Registry

endif

set wrfpluspath = ( `grep "^WRFPLUSPATH" configure.wrf | cut -d"=" -f2-` )

if ( $wrfpluspath == "" ) then

setenv WRFPLUS\_INC " "

else

setenv WRFPLUS\_DIR $wrfpluspath

setenv WRFPLUS\_INC "-I${wrfpluspath}/dyn\_em -I${wrfpluspath}/main -I${wrfpluspath}/frame -I${wrfpluspath}/share -I${wrfpluspath}/wrftladj"

endif

setenv BUFR 1

set CRTM = ( `grep "\-DCRTM" configure.wrf | sed -e 's/\\//g' | sed 's/-//g' ` )

if ( $CRTM != "" ) then

echo " "

echo "Will compile with CRTM library"

echo " "

if ( ! $?BUFR ) then

echo " "

echo "BUFR library is needed for radiance data ingest."

echo "setting BUFR=1"

echo " "

setenv BUFR 1

endif

setenv CRTM\_CPP "-DCRTM"

setenv CRTM\_LIB "-L../external/crtm\_2.3.0/libsrc -lCRTM"

setenv CRTM\_SRC "-I../external/crtm\_2.3.0/libsrc"

#setenv SFC\_CRTM `grep '^SFC' configure.wrf | awk '{print $3}' | sed -e 's/\// /g' | awk '{print $NF}'`

#setenv ABI\_CRTM `grep '^SFC' configure.wrf | sed -n 's/.\*\(\-m[0-9]\{2\}\).\*/\1/p'`

setenv CRTM 1

else

echo " "

echo "Compiling WRFDA without CRTM library"

echo " "

setenv CRTM\_CPP " "

setenv CRTM\_LIB " "

setenv CRTM\_SRC " "

setenv CRTM 0

endif

set hdf5path = ( `grep "^HDF5PATH" configure.wrf | cut -d"=" -f2-` )

if ( $hdf5path == "" ) then

setenv HDF5\_INC ""

unsetenv HDF5

else

echo " "

echo "Compiling with HDF5 libraries in:"

echo $hdf5path

echo " "

setenv HDF5\_INC "-I${hdf5path}/include"

setenv HDF5 1

endif

set RTTOV = ( `grep "^RTTOVPATH" configure.wrf | cut -d"=" -f2-` )

if ( $RTTOV == "" ) then

setenv RTTOV\_LIB " "

setenv RTTOV\_SRC " "

unsetenv RTTOV

else

if ( $hdf5path == "" ) then

echo "As of version 12.1 of RTTOV, WRFDA requires HDF5 in order utilize the RTTOV library."

echo "RTTOV emissivity atlas files are now provided only in HDF5 format."

echo "Please supply an HDF5 path prior to configure or unset RTTOV."

exit 1

else

echo " "

echo "Compiling with RTTOV libraries in:"

echo $RTTOV

echo " "

if ( ! $?BUFR ) then

echo " "

echo "BUFR library is needed for radiance data ingest."

echo "setting BUFR=1"

echo " "

setenv BUFR 1

endif

if ( -e ${RTTOV}/lib/librttov12\_main.a ) then

setenv RTTOV\_LIB "-L${hdf5path}/lib -lhdf5hl\_fortran -lhdf5\_hl -lhdf5\_fortran -lhdf5 -L${RTTOV}/lib -lrttov12\_coef\_io -lrttov12\_emis\_atlas -lrttov12\_main -lrttov12\_hdf"

else

echo "Can not find a compatible RTTOV library! Please ensure that your RTTOV build was successful,"

echo "your 'RTTOV' environment variable is set correctly, and you are using a supported version of RTTOV."

echo "Current supported version(s): 12.1"

exit 1

endif

setenv RTTOV\_SRC "-I${RTTOV}/include -I${RTTOV}/mod"

endif

endif

if ( $?CLOUD\_CV ) then

setenv CLOUD\_CV\_CPP "-DCLOUD\_CV"

else

setenv CLOUD\_CV\_CPP " "

endif

if ( $?BUFR ) then

setenv BUFR\_CPP "-DBUFR"

setenv BUFR\_LIB "-L../external/bufr -lbufr"

else

setenv BUFR\_CPP " "

setenv BUFR\_LIB " "

endif

if ( $?WAVELET ) then

setenv WAVELET\_LIB "../external/wavelet/libWavelet.a ../external/wavelet/lib\_wavelet.a"

else

setenv WAVELET\_LIB " "

endif

if ( $?MADIS ) then

setenv MADIS\_CPP "-DMADIS"

setenv MADIS\_STATIC ${MADIS}/static

setenv MADIS\_LIB "-L${MADIS} -lmadis"

else

setenv MADIS\_CPP " "

setenv MADIS\_LIB " "

endif

setenv DA\_ARCHFLAGS "${BUFR\_CPP} ${MADIS\_CPP} -DFFTPACK -DNORESHAPE"

endif

if (($WRF\_NMM\_CORE == 1)&&($WRF\_CHEM == 0 )) then

if ( ! -f Registry/Registry ) then

set overwrite=1

else

head -2 Registry/Registry | tail -1 | grep NMM > /dev/null

if ( $status ) then

set overwrite=1

else

set nmm\_time=`ls -1tr Registry | cat -n | grep -w 'Registry\.NMM' | grep -v 'Registry.NMM.' | awk '{print $1}'`

set rg\_time=`ls -1tr Registry | cat -n | grep -w 'Registry' | grep -v 'Registry.' | awk '{print $1}'`

if ( $nmm\_time > $rg\_time ) set overwrite=1

endif

endif

if ( $overwrite ) then

echo copying Registry/Registry.NMM to Registry/Registry

echo '## WARNING: this file is autogenerated from Registry/Registry.NMM. Changes may be lost' > Registry/Registry

/bin/cat Registry/Registry.NMM >> Registry/Registry

endif

# integrity check for a kludge where a hard coded value in the

# registry must match the same value in arch/preamble

set registryvalue=`grep 'dimspec.\* q ' Registry/registry.dimspec | sed -e 's/..\*constant=//' -e 's/ ..\*$//'`

set preamblevalue=`grep 'DNMM\_MAX\_DIM=.\*' arch/preamble | sed -e 's/..\*-DNMM\_MAX\_DIM=//' -e 's/ ..\*$//'`

if ( $registryvalue != $preamblevalue ) then

echo "Harded coded value of dimspec q in Registry ($registryvalue) does not"

echo "equal the hard coded value of NMM\_MAX\_DIM in arch/preamble ($preamblevalue)"

echo "Please fix and try again."

exit 2

endif

endif

echo " "

echo "============================================================================================== "

echo " "

cat inc/version\_decl | cut -d"'" -f2

echo " "

echo -n "Compiling: "

if ( $WRF\_DA\_CORE ) echo -n "WRF\_DA\_CORE "

if ( $WRF\_EM\_CORE ) echo -n "WRF\_EM\_CORE "

if ( $WRF\_NMM\_CORE ) echo -n "WRF\_NMM\_CORE "

if ( $WRF\_COAMPS\_CORE ) echo -n "WRF\_COAMPS\_CORE "

if ( $WRF\_EXP\_CORE ) echo -n "WRF\_EXP\_CORE "

echo " "

env | grep LARGE

echo " "

uname -a

echo " "

set comp = ( `grep "^SFC" configure.wrf | cut -d"=" -f2-` )

if ( "$comp[1]" == "gfortran" ) then

gfortran --version

else if ( "$comp[1]" == "pgf90" ) then

pgf90 --version

else if ( "$comp[1]" == "ifort" ) then

ifort -V

else

echo "Not sure how to figure out the version of this compiler: $comp[1]"

endif

echo " "

echo "============================================================================================== "

echo " "

if ( ! $?WRF\_SRC\_ROOT\_DIR ) setenv WRF\_SRC\_ROOT\_DIR `pwd`

# new dec 2009. check to see if make supports parallel -j option

make -j 2 >& /dev/null

if ( $status == 0 ) then # Parallel make ok

if ( ! $?J ) then # J not defined

echo setting parallel make -j 2 # Set default to 2

setenv J "-j 2"

else

# J is defined, check that it is a correctly formed variable

set first2chars = `echo $J | cut -c 1-2` # Are 1st two chars are -j?

set second\_word = `echo $J | cut -d" " -f2` # Is second word a number?

if ( "$first2chars" == "-j" ) then

if ( ( "$second\_word" >= "2" ) && \

( "$second\_word" <= "20" ) ) then

echo setting parallel make $J

else if ( "$second\_word" == "1" ) then

echo setting serial make $J

else

echo "badly formed -j option for parallel make: $J"

echo "or you set the number of processors above 20 "

echo setting parallel make -j 2 # Set default to 2

setenv J "-j 2"

endif

else

if ( "$J" == "" ) then # J blank is OK

echo setting serial make $J

else

echo "parallel option for make is -j, you entered: $first2chars"

echo setting parallel make -j 2 # Set default to 2

setenv J "-j 2"

endif

endif

endif

else

echo not setting parallel make

endif

/bin/rm -f $ZAP >& /dev/null

make $arglist A2DCASE="$A2DCASE" WRF\_SRC\_ROOT\_DIR="$WRF\_SRC\_ROOT\_DIR"

endif

exit 0

hlp:

echo ' '

echo 'Usage:'

echo ' '

echo ' compile [-j n] wrf compile wrf in run dir (NOTE: no real.exe, ndown.exe, or ideal.exe generated)'

echo ' '

echo ' or choose a test case (see README\_test\_cases for details) :'

foreach d ( `/bin/ls test` )

if ( "$d" != "CVS" ) then

echo " compile [-j n] $d"

endif

end

echo ' '

echo ' compile -j n parallel make using n tasks if supported (default 2)'

echo ' compile -h help message'

# **Creation of mpicc and configuration**

checking for perl5... no

checking for perl... found /usr/bin/perl (perl)

Will use NETCDF in dir: /home/wrf/WRF/libs/netcdf

HDF5 not set in environment. Will configure WRF for use without.

PHDF5 not set in environment. Will configure WRF for use without.

Will use 'time' to report timing information

If you REALLY want Grib2 output from WRF, modify the arch/Config.pl script.

Right now you are not getting the Jasper lib, from the environment, compiled into WRF.

------------------------------------------------------------------------

Please select from among the following Linux x86\_64 options:

1. (serial) 2. (smpar) 3. (dmpar) 4. (dm+sm) PGI (pgf90/gcc)

5. (serial) 6. (smpar) 7. (dmpar) 8. (dm+sm) PGI (pgf90/pgcc): SGI MPT

9. (serial) 10. (smpar) 11. (dmpar) 12. (dm+sm) PGI (pgf90/gcc): PGI accelerator

13. (serial) 14. (smpar) 15. (dmpar) 16. (dm+sm) INTEL (ifort/icc)

17. (dm+sm) INTEL (ifort/icc): Xeon Phi (MIC architecture)

18. (serial) 19. (smpar) 20. (dmpar) 21. (dm+sm) INTEL (ifort/icc): Xeon (SNB with AVX mods)

22. (serial) 23. (smpar) 24. (dmpar) 25. (dm+sm) INTEL (ifort/icc): SGI MPT

26. (serial) 27. (smpar) 28. (dmpar) 29. (dm+sm) INTEL (ifort/icc): IBM POE

30. (serial) 31. (dmpar) PATHSCALE (pathf90/pathcc)

32. (serial) 33. (smpar) 34. (dmpar) 35. (dm+sm) GNU (gfortran/gcc)

36. (serial) 37. (smpar) 38. (dmpar) 39. (dm+sm) IBM (xlf90\_r/cc\_r)

40. (serial) 41. (smpar) 42. (dmpar) 43. (dm+sm) PGI (ftn/gcc): Cray XC CLE

44. (serial) 45. (smpar) 46. (dmpar) 47. (dm+sm) CRAY CCE (ftn $(NOOMP)/cc): Cray XE and XC

48. (serial) 49. (smpar) 50. (dmpar) 51. (dm+sm) INTEL (ftn/icc): Cray XC

52. (serial) 53. (smpar) 54. (dmpar) 55. (dm+sm) PGI (pgf90/pgcc)

56. (serial) 57. (smpar) 58. (dmpar) 59. (dm+sm) PGI (pgf90/gcc): -f90=pgf90

60. (serial) 61. (smpar) 62. (dmpar) 63. (dm+sm) PGI (pgf90/pgcc): -f90=pgf90

64. (serial) 65. (smpar) 66. (dmpar) 67. (dm+sm) INTEL (ifort/icc): HSW/BDW

68. (serial) 69. (smpar) 70. (dmpar) 71. (dm+sm) INTEL (ifort/icc): KNL MIC

72. (serial) 73. (smpar) 74. (dmpar) 75. (dm+sm) FUJITSU (frtpx/fccpx): FX10/FX100 SPARC64 IXfx/Xlfx

Enter selection [1-75] : 34

------------------------------------------------------------------------

Compile for nesting? (1=basic, 2=preset moves, 3=vortex following) [default 1]: 1

Configuration successful!

------------------------------------------------------------------------

testing for fseeko and fseeko64

fseeko64 is supported

------------------------------------------------------------------------

# Settings for Linux x86\_64 ppc64le, gfortran compiler with gcc (dmpar)

#

DESCRIPTION = GNU ($SFC/$SCC)

DMPARALLEL = 1

OMPCPP = # -D\_OPENMP

OMP = # -fopenmp

OMPCC = # -fopenmp

SFC = gfortran

SCC = gcc

CCOMP = gcc

DM\_FC = mpif90 -f90=$(SFC)

DM\_CC = mpicc -cc=$(SCC)

FC = time $(DM\_FC)

CC = $(DM\_CC) -DFSEEKO64\_OK

LD = $(FC)

RWORDSIZE = $(NATIVE\_RWORDSIZE)

PROMOTION = #-fdefault-real-8

ARCH\_LOCAL = -DNONSTANDARD\_SYSTEM\_SUBR -DWRF\_USE\_CLM

CFLAGS\_LOCAL = -w -O3 -c

LDFLAGS\_LOCAL =

CPLUSPLUSLIB =

ESMF\_LDFLAG = $(CPLUSPLUSLIB)

FCOPTIM = -O2 -ftree-vectorize -funroll-loops

FCREDUCEDOPT = $(FCOPTIM)

FCNOOPT = -O0

FCDEBUG = # -g $(FCNOOPT) # -ggdb -fbacktrace -fcheck=bounds,do,mem,pointer -ffpe-trap=invalid,zero,overflow

FORMAT\_FIXED = -ffixed-form

FORMAT\_FREE = -ffree-form -ffree-line-length-none

FCSUFFIX =

BYTESWAPIO = -fconvert=big-endian -frecord-marker=4

FCBASEOPTS\_NO\_G = -w $(FORMAT\_FREE) $(BYTESWAPIO)

FCBASEOPTS = $(FCBASEOPTS\_NO\_G) $(FCDEBUG)

MODULE\_SRCH\_FLAG =

TRADFLAG = -traditional-cpp

CPP = /lib/cpp -P -nostdinc

AR = ar

ARFLAGS = ru

M4 = m4 -G

RANLIB = ranlib

RLFLAGS =

CC\_TOOLS = $(SCC)

###########################################################

######################

# POSTAMBLE

FGREP = fgrep -iq

ARCHFLAGS = $(COREDEFS) -DIWORDSIZE=$(IWORDSIZE) -DDWORDSIZE=$(DWORDSIZE) -DRWORDSIZE=$(RWORDSIZE) -DLWORDSIZE=$(LWORDSIZE) \

$(ARCH\_LOCAL) \

$(DA\_ARCHFLAGS) \

-DDM\_PARALLEL \

\

-DNETCDF \

\

\

\

\

\

\

\

\

-DLANDREAD\_STUB=1 \

\

\

-DUSE\_ALLOCATABLES \

-Dwrfmodel \

-DGRIB1 \

-DINTIO \

-DKEEP\_INT\_AROUND \

-DLIMIT\_ARGS \

-DBUILD\_RRTMG\_FAST=1 \

-DSHOW\_ALL\_VARS\_USED=0 \

-DCONFIG\_BUF\_LEN=$(CONFIG\_BUF\_LEN) \

-DMAX\_DOMAINS\_F=$(MAX\_DOMAINS) \

-DMAX\_HISTORY=$(MAX\_HISTORY) \

-DNMM\_NEST=$(WRF\_NMM\_NEST)

CFLAGS = $(CFLAGS\_LOCAL) -DDM\_PARALLEL \

-DLANDREAD\_STUB=1 \

-DMAX\_HISTORY=$(MAX\_HISTORY) -DNMM\_CORE=$(WRF\_NMM\_CORE)

FCFLAGS = $(FCOPTIM) $(FCBASEOPTS)

ESMF\_LIB\_FLAGS =

# ESMF 5 -- these are defined in esmf.mk, included above

ESMF\_IO\_LIB = -L$(WRF\_SRC\_ROOT\_DIR)/external/esmf\_time\_f90 -lesmf\_time

ESMF\_IO\_LIB\_EXT = -L$(WRF\_SRC\_ROOT\_DIR)/external/esmf\_time\_f90 -lesmf\_time

INCLUDE\_MODULES = $(MODULE\_SRCH\_FLAG) \

$(ESMF\_MOD\_INC) $(ESMF\_LIB\_FLAGS) \

-I$(WRF\_SRC\_ROOT\_DIR)/main \

-I$(WRF\_SRC\_ROOT\_DIR)/external/io\_netcdf \

-I$(WRF\_SRC\_ROOT\_DIR)/external/io\_int \

-I$(WRF\_SRC\_ROOT\_DIR)/frame \

-I$(WRF\_SRC\_ROOT\_DIR)/share \

-I$(WRF\_SRC\_ROOT\_DIR)/phys \

-I$(WRF\_SRC\_ROOT\_DIR)/wrftladj \

-I$(WRF\_SRC\_ROOT\_DIR)/chem -I$(WRF\_SRC\_ROOT\_DIR)/inc \

-I$(NETCDFPATH)/include \

REGISTRY = Registry

CC\_TOOLS\_CFLAGS = -DNMM\_CORE=$(WRF\_NMM\_CORE)

LIB\_BUNDLED = \

$(WRF\_SRC\_ROOT\_DIR)/external/fftpack/fftpack5/libfftpack.a \

$(WRF\_SRC\_ROOT\_DIR)/external/io\_grib1/libio\_grib1.a \

$(WRF\_SRC\_ROOT\_DIR)/external/io\_grib\_share/libio\_grib\_share.a \

$(WRF\_SRC\_ROOT\_DIR)/external/io\_int/libwrfio\_int.a \

$(ESMF\_IO\_LIB) \

$(WRF\_SRC\_ROOT\_DIR)/external/RSL\_LITE/librsl\_lite.a \

$(WRF\_SRC\_ROOT\_DIR)/frame/module\_internal\_header\_util.o \

$(WRF\_SRC\_ROOT\_DIR)/frame/pack\_utils.o

LIB\_EXTERNAL = \

-L$(WRF\_SRC\_ROOT\_DIR)/external/io\_netcdf -lwrfio\_nf -L/home/wrf/WRF/libs/netcdf/lib -lnetcdff -lnetcdf

LIB = $(LIB\_BUNDLED) $(LIB\_EXTERNAL) $(LIB\_LOCAL) $(LIB\_WRF\_HYDRO)

LDFLAGS = $(OMP) $(FCFLAGS) $(LDFLAGS\_LOCAL)

ENVCOMPDEFS =

WRF\_CHEM = 0

CPPFLAGS = $(ARCHFLAGS) $(ENVCOMPDEFS) -I$(LIBINCLUDE) $(TRADFLAG)

NETCDFPATH = /home/wrf/WRF/libs/netcdf

HDF5PATH =

WRFPLUSPATH =

RTTOVPATH =

PNETCDFPATH =

bundled: io\_only

external: io\_only $(WRF\_SRC\_ROOT\_DIR)/external/RSL\_LITE/librsl\_lite.a gen\_comms\_rsllite module\_dm\_rsllite $(ESMF\_TARGET)

io\_only: esmf\_time wrfio\_nf \

wrf\_ioapi\_includes wrfio\_grib\_share wrfio\_grib1 wrfio\_int fftpack

######################

------------------------------------------------------------------------

Settings listed above are written to configure.wrf.

If you wish to change settings, please edit that file.

If you wish to change the default options, edit the file:

arch/configure.defaults

NetCDF users note:

This installation of NetCDF supports large file support. To DISABLE large file

support in NetCDF, set the environment variable WRFIO\_NCD\_NO\_LARGE\_FILE\_SUPPORT

to 1 and run configure again. Set to any other value to avoid this message.

Testing for NetCDF, C and Fortran compiler

This installation of NetCDF is 64-bit

C compiler is 64-bit

Fortran compiler is 64-bit

It will build in 64-bit

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

This build of WRF will use classic (non-compressed) NETCDF format

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

# **midnight commander**

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

libssh2-1 mc-data

Suggested packages:

arj catdvi | texlive-binaries dbview djvulibre-bin gv imagemagick libaspell-dev links | w3m | lynx odt2txt python-boto python-tz

The following NEW packages will be installed:

libssh2-1 mc mc-data

0 upgraded, 3 newly installed, 0 to remove and 420 not upgraded.

Need to get 1,785 kB of archives.

After this operation, 7,541 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libssh2-1 amd64 1.8.0-1 [73.2 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic/universe amd64 mc-data all 3:4.8.19-1 [1,238 kB]

Get:3 http://archive.ubuntu.com/ubuntu bionic/universe amd64 mc amd64 3:4.8.19-1 [474 kB]

Fetched 1,785 kB in 8s (233 kB/s)

Selecting previously unselected package libssh2-1:amd64.

(Reading database ... 248075 files and directories currently installed.)

Preparing to unpack .../libssh2-1\_1.8.0-1\_amd64.deb ...

Unpacking libssh2-1:amd64 (1.8.0-1) ...

Selecting previously unselected package mc-data.

Preparing to unpack .../mc-data\_3%3a4.8.19-1\_all.deb ...

Unpacking mc-data (3:4.8.19-1) ...

Selecting previously unselected package mc.

Preparing to unpack .../mc\_3%3a4.8.19-1\_amd64.deb ...

Unpacking mc (3:4.8.19-1) ...

Setting up mc-data (3:4.8.19-1) ...

Setting up libssh2-1:amd64 (1.8.0-1) ...

Setting up mc (3:4.8.19-1) ...

update-alternatives: using /usr/bin/mcview to provide /usr/bin/view (view) in auto mode

Processing triggers for gnome-menus (3.13.3-11ubuntu1.1) ...

Processing triggers for hicolor-icon-theme (0.17-2) ...

Processing triggers for mime-support (3.60ubuntu1) ...

Processing triggers for desktop-file-utils (0.23+linuxmint8) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Processing triggers for doc-base (0.10.8) ...

Processing 1 added doc-base file...

Registering documents with scrollkeeper...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

# **Namelist wps variables**

This section describes variables that are used by more than one WPS program. For example, the wrf\_core variable specifies whether the WPS is to produce data for the ARW or the NMM core – information which is needed by both the geogrid and metgrid programs.

1. WRF\_CORE : A character string set to either 'ARW' or 'NMM' that tells the WPS which dynamical core the input data are being prepared for. Default value is 'ARW'.

2. MAX\_DOM : An integer specifying the total number of domains/nests, including the parent domain, in the simulation. Default value is 1.

3. START\_YEAR : A list of MAX\_DOM 4-digit integers specifying the starting UTC year of the simulation for each nest. No default value.

4. START\_MONTH : A list of MAX\_DOM 2-digit integers specifying the starting UTC month of the simulation for each nest. No default value.

5. START\_DAY : A list of MAX\_DOM 2-digit integers specifying the starting UTC day of the simulation for each nest. No default value.

6. START\_HOUR : A list of MAX\_DOM 2-digit integers specifying the starting UTC hour of the simulation for each nest. No default value.

7. END\_YEAR : A list of MAX\_DOM 4-digit integers specifying the ending UTC year of the simulation for each nest. No default value.

8. END\_MONTH : A list of MAX\_DOM 2-digit integers specifying the ending UTC month of the simulation for each nest. No default value.

9. END\_DAY : A list of MAX\_DOM 2-digit integers specifying the ending UTC day of the simulation for each nest. No default value.

10. END\_HOUR : A list of MAX\_DOM 2-digit integers specifying the ending UTC hour of the simulation for each nest. No default value.

11. START\_DATE : A list of MAX\_DOM character strings of the form 'YYYY-MM-DD\_HH:mm:ss' specifying the starting UTC date of the simulation for each nest. The start\_date variable is an alternate to specifying start\_year, start\_month, start\_day, and start\_hour, and if both methods are used for specifying the starting time, the start\_date variable will take precedence. No default value.

12. END\_DATE : A list of MAX\_DOM character strings of the form 'YYYY-MM-DD\_HH:mm:ss' specifying the ending UTC date of the simulation for each nest. The end\_date variable is an alternate to specifying end\_year, end\_month, end\_day, and end\_hour, and if both methods are used for specifying the ending time, the end\_date variable will take precedence. No default value.

13. INTERVAL\_SECONDS : The integer number of seconds between time-varying meteorological input files. No default value.

14. ACTIVE\_GRID : A list of MAX\_DOM logical values specifying, for each grid, whether that grid should be processed by geogrid and metgrid. Default value is .TRUE..

15. IO\_FORM\_GEOGRID : The WRF I/O API format that the domain files created by the geogrid program will be written in. Possible options are: 1 for binary; 2 for NetCDF; 3 for GRIB1. When option 1 is given, domain files will have a suffix of .int; when option 2 is given, domain files will have a suffix of .nc; when option 3 is given, domain files will have a suffix of .gr1. Default value is 2 (NetCDF).

16. OPT\_OUTPUT\_FROM\_GEOGRID\_PATH : A character string giving the path, either relative or absolute, to the location where output files from geogrid should be written to and read from. Default value is './'.

17. DEBUG\_LEVEL : An integer value indicating the extent to which different types of messages should be sent to standard output. When debug\_level is set to 0, only generally useful messages and warning messages will be written to standard output. When debug\_level is greater than 100, informational messages that provide further runtime details are also written to standard output. Debugging messages and messages specifically intended for log files are never written to standard output, but are always written to the log files. Default value is 0.

B. GEOGRID section

This section specifies variables that are specific to the geogrid program. Variables in the geogrid section primarily define the size and location of all model domains, and where the static geographical data are found.

1. PARENT\_ID : A list of MAX\_DOM integers specifying, for each nest, the domain number of the nest’s parent; for the coarsest domain, this variable should be set to 1. Default value is 1.

2. PARENT\_GRID\_RATIO : A list of MAX\_DOM integers specifying, for each nest, the nesting ratio relative to the domain’s parent. No default value.

3. I\_PARENT\_START : A list of MAX\_DOM integers specifying, for each nest, the x-coordinate of the lower-left corner of the nest in the parent unstaggered grid. For the coarsest domain, a value of 1 should be specified. No default value.

4. J\_PARENT\_START : A list of MAX\_DOM integers specifying, for each nest, the y-coordinate of the lower-left corner of the nest in the parent unstaggered grid. For the coarsest domain, a value of 1 should be specified. No default value.

5. S\_WE : A list of MAX\_DOM integers which should all be set to 1. Default value is 1.

6. E\_WE : A list of MAX\_DOM integers specifying, for each nest, the nest’s full west-east dimension. For nested domains, e\_we must be one greater than an integer multiple of the nest's parent\_grid\_ratio (i.e., e\_we = n\*parent\_grid\_ratio+1 for some positive integer n). No default value.

7. S\_SN : A list of MAX\_DOM integers which should all be set to 1. Default value is 1.

8. E\_SN : A list of MAX\_DOM integers specifying, for each nest, the nest’s full south-north dimension. For nested domains, e\_sn must be one greater than an integer multiple of the nest's parent\_grid\_ratio (i.e., e\_sn = n\*parent\_grid\_ratio+1 for some positive integer n). No default value.

9. GEOG\_DATA\_RES : A list of MAX\_DOM character strings specifying, for each nest, a corresponding resolution or list of resolutions separated by + symbols of source data to be used when interpolating static terrestrial data to the nest’s grid. For each nest, this string should contain a resolution matching a string preceding a colon in a rel\_path or abs\_path specification (see the description of GEOGRID.TBL options) in the GEOGRID.TBL file for each field. If a resolution in the string does not match any such string in a rel\_path or abs\_path specification for a field in GEOGRID.TBL, a default resolution of data for that field, if one is specified, will be used. If multiple resolutions match, the first resolution to match a string in a rel\_path or abs\_path specification in the GEOGRID.TBL file will be used. Default value is 'default'.

10. DX : A real value specifying the grid distance in the x-direction where the map scale factor is 1. For ARW, the grid distance is in meters for the 'polar', 'lambert', and 'mercator' projection, and in degrees longitude for the 'lat-lon' projection; for NMM, the grid distance is in degrees longitude. Grid distances for nests are determined recursively based on values specified for parent\_grid\_ratio and parent\_id. No default value.

11. DY : A real value specifying the nominal grid distance in the y-direction where the map scale factor is 1. For ARW, the grid distance is in meters for the 'polar', 'lambert', and 'mercator' projection, and in degrees latitude for the 'lat-lon' projection; for NMM, the grid distance is in degrees latitude. Grid distances for nests are determined recursively based on values specified for parent\_grid\_ratio and parent\_id. No default value.

12. MAP\_PROJ : A character string specifying the projection of the simulation domain. For ARW, accepted projections are 'lambert', 'polar', 'mercator', and 'lat-lon'; for NMM, a projection of 'rotated\_ll' must be specified. Default value is 'lambert'.

13. REF\_LAT : A real value specifying the latitude part of a (latitude, longitude) location whose (i,j) location in the simulation domain is known. For ARW, ref\_lat gives the latitude of the center-point of the coarse domain by default (i.e., when ref\_x and ref\_y are not specified). For NMM, ref\_lat always gives the latitude to which the origin is rotated. No default value.

14. REF\_LON : A real value specifying the longitude part of a (latitude, longitude) location whose (i, j) location in the simulation domain is known. For ARW, ref\_lon gives the longitude of the center-point of the coarse domain by default (i.e., when ref\_x and ref\_y are not specified). For NMM, ref\_lon always gives the longitude to which the origin is rotated. For both ARW and NMM, west longitudes are negative, and the value of ref\_lon should be in the range [-180, 180]. No default value.

15. REF\_X : A real value specifying the i part of an (i, j) location whose (latitude, longitude) location in the simulation domain is known. The (i, j) location is always given with respect to the mass-staggered grid, whose dimensions are one less than the dimensions of the unstaggered grid. Default value is (((E\_WE-1.)+1.)/2.) = (E\_WE/2.).

16. REF\_Y : A real value specifying the j part of an (i, j) location whose (latitude, longitude) location in the simulation domain is known. The (i, j) location is always given with respect to the mass-staggered grid, whose dimensions are one less than the dimensions of the unstaggered grid. Default value is (((E\_SN-1.)+1.)/2.) = (E\_SN/2.).

17. TRUELAT1 : A real value specifying, for ARW, the first true latitude for the Lambert conformal projection, or the only true latitude for the Mercator and polar stereographic projections. For NMM, truelat1 is ignored. No default value.

18. TRUELAT2 : A real value specifying, for ARW, the second true latitude for the Lambert conformal conic projection. For all other projections, truelat2 is ignored. No default value.

19. STAND\_LON : A real value specifying, for ARW, the longitude that is parallel with the y-axis in the Lambert conformal and polar stereographic projections. For the regular latitude-longitude projection, this value gives the rotation about the earth's geographic poles. For NMM, stand\_lon is ignored. No default value.

20. POLE\_LAT : For the latitude-longitude projection for ARW, the latitude of the North Pole with respect to the computational latitude-longitude grid in which -90.0° latitude is at the bottom of a global domain, 90.0° latitude is at the top, and 180.0° longitude is at the center. Default value is 90.0.

21. POLE\_LON : For the latitude-longitude projection for ARW, the longitude of the North Pole with respect to the computational lat/lon grid in which -90.0° latitude is at the bottom of a global domain, 90.0° latitude is at the top, and 180.0° longitude is at the center. Default value is 0.0.

22. GEOG\_DATA\_PATH : A character string giving the path, either relative or absolute, to the directory where the geographical data directories may be found. This path is the one to which rel\_path specifications in the GEOGRID.TBL file are given in relation to. No default value.

23. OPT\_GEOGRID\_TBL\_PATH : A character string giving the path, either relative or absolute, to the GEOGRID.TBL file. The path should not contain the actual file name, as GEOGRID.TBL is assumed, but should only give the path where this file is located. Default value is './geogrid/'.

C. UNGRIB section

Currently, this section contains only two variables, which determine the output format written by ungrib and the name of the output files.

1. OUT\_FORMAT : A character string set either to 'WPS', 'SI', or 'MM5'. If set to 'MM5', ungrib will write output in the format of the MM5 pregrid program; if set to 'SI', ungrib will write output in the format of grib\_prep.exe; if set to 'WPS', ungrib will write data in the WPS intermediate format. Default value is 'WPS'.

2. PREFIX : A character string that will be used as the prefix for intermediate-format files created by ungrib; here, prefix refers to the string PREFIX in the filename PREFIX:YYYY-MM-DD\_HH of an intermediate file. The prefix may contain path information, either relative or absolute, in which case the intermediate files will be written in the directory specified. This option may be useful to avoid renaming intermediate files if ungrib is to be run on multiple sources of GRIB data. Default value is 'FILE'.

3. ADD\_LVLS : A logical that determines whether ungrib will attemp to vertically interpolate to an additional set of vertical levels specified using the NEW\_PLVL and INTERP\_TYPE namelist options. Default value is .FALSE..

4. INTERP\_TYPE : An integer value specifying the method that ungrib will use when vertically interpolating to new levels. A value of 0 causes ungrib to interpolate linearly in pressure, and a value of 1 causes ungrib to interpolate linearly in log pressure. Default value is 0.

5. NEW\_PLVL : An array of real values that specify the additional vertical levels, given in Pa, to which the ungrib program will attempt to interpolate when ADD\_LVLS is true. The set of new levels can be specified explicitly, or, if the levels are evenly spaced in pressure, exactly three values can be specified: the starting pressure, the ending pressure, and the pressure increment. When a starting pressure, ending pressure, and increment are specified, the pressure increment must be a negative number to signal to the ungrib program that this value is not a target pressure level, but rather, an increment to be used between the first and second values. No default value.

6. PMIN : A real value specifying the minimum pressure level, in Pa, to be processed from GRIB data. This option applies only to isobaric data sets. Default value is 100.

D. METGRID section

This section defines variables used only by the metgrid program. Typically, the user will be interested primarily in the fg\_name variable and may need to modify other variables of this section less frequently.

1. FG\_NAME : A list of character strings specifying the path and prefix of ungribbed data files. The path may be relative or absolute, and the prefix should contain all characters of the filenames up to, but not including, the colon preceding the date. When more than one fg\_name is specified, and the same field is found in two or more input sources, the data in the last encountered source will take priority over all preceding sources for that field. Default value is an empty list (i.e., no meteorological fields).

2. CONSTANTS\_NAME : A list of character strings specifying the path and full filename of ungribbed data files which are time-invariant. The path may be relative or absolute, and the filename should be the complete filename; since the data are assumed to be time-invariant, no date will be appended to the specified filename. Default value is an empty list (i.e., no constant fields).

3. IO\_FORM\_METGRID : The WRF I/O API format that the output created by the metgrid program will be written in. Possible options are: 1 for binary; 2 for NetCDF; 3 for GRIB1. When option 1 is given, output files will have a suffix of .int; when option 2 is given, output files will have a suffix of .nc; when option 3 is given, output files will have a suffix of .gr1. Default value is 2 (NetCDF).

4. OPT\_OUTPUT\_FROM\_METGRID\_PATH : A character string giving the path, either relative or absolute, to the location where output files from metgrid should be written to. The default value is the current working directory (i.e., the default value is './').

5. OPT\_METGRID\_TBL\_PATH : A character string giving the path, either relative or absolute, to the METGRID.TBL file; the path should not contain the actual file name, as METGRID.TBL is assumed, but should only give the path where this file is located. Default value is './metgrid/'.

5. PROCESS\_ONLY\_BDY: An integer specifying the number of boundary rows and columns to be processed by metgrid for time periods after the initial time; for the initial time, metgrid will always interpolate to every grid point. Setting this option to the intended value of spec\_bdy\_width in the WRF namelist.input will speed up processing in metgrid, but it should not be set if interpolated data are needed in the domain interior. If this option is set to zero, metgrid will horizontally interpolate meteorological data to every grid point in the model domains. This option is only available for ARW. Default value is 0.

# **configuration of WPS**

# configure.wps

#

# This file was automatically generated by the configure script in the

# top level directory. You may make changes to the settings in this

# file but be aware they will be overwritten each time you run configure.

# Ordinarily, it is necessary to run configure once, when the code is

# first installed.

#

# To permanently change options, change the settings for your platform

# in the file arch/configure.defaults, the preamble, and the postamble -

# then rerun configure.

#

.SUFFIXES: .F .f .c .o

SHELL = /bin/sh

NCARG\_LIBS = -L$(NCARG\_ROOT)/lib -lncarg -lncarg\_gks -lncarg\_c \

-lX11 -lXext -lpng -lz -lcairo -lfontconfig -lpixman-1 \

-lfreetype -lexpat -lpthread -lbz2 -lXrender -lgfortran -lgcc

NCARG\_LIBS2 = # May be overridden by architecture specific value below

FDEFS = -DUSE\_JPEG2000 -DUSE\_PNG

# Listing of options that are usually independent of machine type.

# When necessary, these are over-ridden by each architecture.

ARFLAGS =

PERL = perl

RANLIB = echo

WRF\_DIR = /home/wrf/WRF/WRF-4.1.5

WRF\_INCLUDE = -I$(WRF\_DIR)/external/io\_netcdf \

-I$(WRF\_DIR)/external/io\_grib\_share \

-I$(WRF\_DIR)/external/io\_grib1 \

-I$(WRF\_DIR)/external/io\_int \

-I$(WRF\_DIR)/inc \

-I$(NETCDF)/include

WRF\_LIB = -L$(WRF\_DIR)/external/io\_grib1 -lio\_grib1 \

-L$(WRF\_DIR)/external/io\_grib\_share -lio\_grib\_share \

-L$(WRF\_DIR)/external/io\_int -lwrfio\_int \

-L$(WRF\_DIR)/external/io\_netcdf -lwrfio\_nf \

-L$(NETCDF)/lib -lnetcdff -lnetcdf

#### Architecture specific settings ####

COMPRESSION\_LIBS = # intentionally left blank, fill in COMPRESSION\_LIBS below

COMPRESSION\_INC = # intentionally left blank, fill in COMPRESSION\_INC below

#

# Settings for Linux x86\_64, gfortran (dmpar)

#

#

COMPRESSION\_LIBS = -L/home/wrf/WRF/libs/grib2/lib -ljasper -lpng -lz

COMPRESSION\_INC = -I/home/wrf/WRF/libs/grib2/include

FDEFS = -DUSE\_JPEG2000 -DUSE\_PNG

SFC = gfortran

SCC = gcc

DM\_FC = mpif90

DM\_CC = mpicc

FC = $(DM\_FC)

CC = $(DM\_CC)

LD = $(FC)

FFLAGS = -ffree-form -O -fconvert=big-endian -frecord-marker=4

F77FLAGS = -ffixed-form -O -fconvert=big-endian -frecord-marker=4

FCSUFFIX =

FNGFLAGS = $(FFLAGS)

LDFLAGS =

CFLAGS =

CPP = /usr/bin/cpp -P -traditional

CPPFLAGS = -D\_UNDERSCORE -DBYTESWAP -DLINUX -DIO\_NETCDF -DBIT32 -DNO\_SIGNAL -D\_MPI

RANLIB = ranlib

########################################################################################################################

#

# Macros, these should be generic for all machines

LN = ln -sf

MAKE = make -i -r

RM = /bin/rm -f

CP = /bin/cp

AR = ar ru

.IGNORE:

.SUFFIXES: .c .f .F .o

# There is probably no reason to modify these rules

.c.o:

$(RM) $@

$(CC) $(CPPFLAGS) $(CFLAGS) -c $<

.f.o:

$(RM) $@ $\*.mod

$(FC) $(F77FLAGS) -c $< $(WRF\_INCLUDE)

.F.o:

$(RM) $@ $\*.mod

$(CPP) $(CPPFLAGS) $(FDEFS) $(WRF\_INCLUDE) $< > $\*.f90

$(FC) $(FFLAGS) -c $\*.f90 $(WRF\_INCLUDE)

# $(RM) $\*.f90

# **Updated Namelist WPS**

&share

wrf\_core = 'ARW',

max\_dom = 1,

start\_date = '2021-03-03\_00:00:00',

end\_date = '2021-03-03\_06:00:00',

interval\_seconds = 10800

io\_form\_geogrid = 2,

/

&geogrid

parent\_id = 1, 1,

parent\_grid\_ratio = 1, 3,

i\_parent\_start = 1, 31,

j\_parent\_start = 1, 17,

e\_we = 100, 112,

e\_sn = 100, 97,

geog\_data\_res = 'default','default',

dx = 10000,

dy = 10000,

map\_proj = 'lambert',

ref\_lat = 24.7821,

ref\_lon = 92.8577,

truelat1 = 24.7821,

truelat2 = 24.7821,

stand\_lon = 92.8577,

geog\_data\_path = '/home/wrf/WRF/GEOG/'

/

&ungrib

out\_format = 'WPS',

prefix = 'FILE',

/

&metgrid

fg\_name = 'FILE'

io\_form\_metgrid = 2,

/

# **successful working of geogrid**

./geogrid.exe

Parsed 28 entries in GEOGRID.TBL

Processing domain 1 of 1

Processing XLAT and XLONG

Processing MAPFAC

Processing F and E

Processing ROTANG

Processing LANDUSEF

Calculating landmask from LANDUSEF ( WATER = 17 21 )

Processing HGT\_M

Processing SOILTEMP

Processing SOILCTOP

Processing SCT\_DOM

Processing SOILCBOT

Processing SCB\_DOM

Processing ALBEDO12M

Processing GREENFRAC

Processing LAI12M

Processing SNOALB

Processing CON

Processing VAR

Processing OA1

Processing OA2

Processing OA3

Processing OA4

Processing OL1

Processing OL2

Processing OL3

Processing OL4

Processing VAR\_SSO

Optional fields not processed by geogrid:

LAKE\_DEPTH (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/lake\_depth/')

URB\_PARAM (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/NUDAPT44\_1km/')

FRC\_URB2D (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/urbfrac\_nlcd2011/')

IMPERV (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/nlcd2011\_imp\_ll\_9s/')

CANFRA (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/nlcd2011\_can\_ll\_9s/')

EROD (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/erod/')

CLAYFRAC (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/clayfrac\_5m/')

SANDFRAC (priority=1, resolution='default', path='/home/wrf/WRF/GEOG/sandfrac\_5m/')

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

! Successful completion of geogrid. !

!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

# **ncview installation**

sudo apt install ncview

[sudo] password for wrf:

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

libaec0 libhdf5-100 libnetcdf13 libsz2 libudunits2-0 libudunits2-data

The following NEW packages will be installed:

libaec0 libhdf5-100 libnetcdf13 libsz2 libudunits2-0 libudunits2-data ncview

0 upgraded, 7 newly installed, 0 to remove and 420 not upgraded.

Need to get 2,118 kB of archives.

After this operation, 8,220 kB of additional disk space will be used.

Do you want to continue? [Y/n] y

Get:1 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libaec0 amd64 0.3.2-2 [18.1 kB]

Get:2 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libsz2 amd64 0.3.2-2 [5,114 B]

Get:3 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libhdf5-100 amd64 1.10.0-patch1+docs-4 [1,256 kB]

Get:4 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libnetcdf13 amd64 1:4.6.0-2build1 [333 kB]

Get:5 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libudunits2-data all 2.2.26-1 [18.7 kB]

Get:6 http://archive.ubuntu.com/ubuntu bionic/universe amd64 libudunits2-0 amd64 2.2.26-1 [54.3 kB]

Get:7 http://archive.ubuntu.com/ubuntu bionic/universe amd64 ncview amd64 2.1.8+ds-1build1 [433 kB]

Fetched 2,118 kB in 19s (109 kB/s)

Selecting previously unselected package libaec0:amd64.

(Reading database ... 248452 files and directories currently installed.)

Preparing to unpack .../0-libaec0\_0.3.2-2\_amd64.deb ...

Unpacking libaec0:amd64 (0.3.2-2) ...

Selecting previously unselected package libsz2:amd64.

Preparing to unpack .../1-libsz2\_0.3.2-2\_amd64.deb ...

Unpacking libsz2:amd64 (0.3.2-2) ...

Selecting previously unselected package libhdf5-100:amd64.

Preparing to unpack .../2-libhdf5-100\_1.10.0-patch1+docs-4\_amd64.deb ...

Unpacking libhdf5-100:amd64 (1.10.0-patch1+docs-4) ...

Selecting previously unselected package libnetcdf13:amd64.

Preparing to unpack .../3-libnetcdf13\_1%3a4.6.0-2build1\_amd64.deb ...

Unpacking libnetcdf13:amd64 (1:4.6.0-2build1) ...

Selecting previously unselected package libudunits2-data.

Preparing to unpack .../4-libudunits2-data\_2.2.26-1\_all.deb ...

Unpacking libudunits2-data (2.2.26-1) ...

Selecting previously unselected package libudunits2-0:amd64.

Preparing to unpack .../5-libudunits2-0\_2.2.26-1\_amd64.deb ...

Unpacking libudunits2-0:amd64 (2.2.26-1) ...

Selecting previously unselected package ncview.

Preparing to unpack .../6-ncview\_2.1.8+ds-1build1\_amd64.deb ...

Unpacking ncview (2.1.8+ds-1build1) ...

Setting up libaec0:amd64 (0.3.2-2) ...

Setting up libudunits2-data (2.2.26-1) ...

Setting up libsz2:amd64 (0.3.2-2) ...

Setting up libhdf5-100:amd64 (1.10.0-patch1+docs-4) ...

Setting up libnetcdf13:amd64 (1:4.6.0-2build1) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Processing triggers for install-info (6.5.0.dfsg.1-2) ...

Processing triggers for sgml-base (1.29) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Setting up libudunits2-0:amd64 (2.2.26-1) ...

Setting up ncview (2.1.8+ds-1build1) ...

Processing triggers for libc-bin (2.27-3ubuntu1) ...