

```
Calling cmake -DCOMPILER=clang -DMPILIB=mpich -DDEBUG=FALSE -DCCPP=ON -
DSUITES=FV3_GFS_v15p2,FV3_GFS_v15p2_no_nsst -DMPI=ON -DSTATIC=ON -DOPENMP=OFF -
DNETCDF_DIR=/home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang -C
/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj/cmake
/configure_cime.cmake
/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj
```

```
RUN: cmake -DCOMPILER=clang -DMPILIB=mpich -DDEBUG=FALSE -DCCPP=ON -
DSUITES=FV3_GFS_v15p2,FV3_GFS_v15p2_no_nsst -DMPI=ON -DSTATIC=ON -DOPENMP=OFF -
DNETCDF_DIR=/home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang -C
/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj/cmake
/configure_cime.cmake
/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj
```

```
FROM: /home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj
```

```
output: loading initial cache file
/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj/cmake
/configure_cime.cmake
```

```
-- The C compiler identification is Clang 9.0.0
```

```
-- The CXX compiler identification is Clang 9.0.0
```

```
-- The Fortran compiler identification is GNU 9.3.0
```

```
-- Check for working C compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpicc
```

```
-- Check for working C compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpicc --
works
```

```
-- Detecting C compiler ABI info
```

```
-- Detecting C compiler ABI info - done
```

```
-- Detecting C compile features
```

```
-- Detecting C compile features - done
```

```
-- Check for working CXX compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-
external_clang/bin/mpicxx
```

```
-- Check for working CXX compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-
external_clang/bin/mpicxx -- works
```

```
-- Detecting CXX compiler ABI info
```

```
-- Detecting CXX compiler ABI info - done
```

```
-- Detecting CXX compile features
```

```
-- Detecting CXX compile features - done
```

```
-- Check for working Fortran compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpif90
-- Check for working Fortran compiler: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpif90 -- works
-- Detecting Fortran compiler ABI info
-- Detecting Fortran compiler ABI info - done
-- Checking whether /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpif90 supports Fortran 90
-- Checking whether /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpif90 supports Fortran 90 -- yes
-- Found MPI_C: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpicc (found version "3.1")
-- Found MPI_CXX: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpicxx (found version "3.1")
-- Found MPI_Fortran: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/bin/mpif90 (found version "3.1")
-- Found MPI: TRUE (found version "3.1")
-- Found ESMF: /home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/mod;/home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/include;/home/neeraj/ufs_v1.0.0/install/NCEPLIBS-external_clang/include (found version "8.0.0")
-- Setting build type to 'Release' as none was specified.
-- Disable OpenMP support for C/C++/Fortran compiler
-- Disable SIONlib support
-- Disable Intel MKL support
-- Enable netCDF support
-- Disable ESMF support
-- Disable multi-gases physics
-- Disable OpenMP support for C/C++/Fortran compiler
-- Could NOT find Doxygen (missing: DOXYGEN_EXECUTABLE)
-- Disable OpenMP support for C/C++/Fortran compiler
-- Configuring done
```

-- Generating done

-- Build files have been written to:

/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj

errput: Setting configuration for cime

C compiler: (mpicc)

CXX compiler: (mpicxx)

Fortran compiler: (mpif90)

1: CMAKE\_Fortran\_FLAGS

2: CMAKE\_Fortran\_FLAGS -fconvert=big-endian -ffree-line-length-none -O

3: CMAKE\_Fortran\_FLAGS -fconvert=big-endian -ffree-line-length-none -O

4: CMAKE\_Fortran\_FLAGS -fconvert=big-endian -ffree-line-length-none -O

5: CMAKE\_C\_FLAGS -D\_\_IFC -std=c99 -O3 -march=znver2 -fPIC -fopenmp -O

DEBUG is disabled

REPRO is disabled

32BIT is disabled

OPENMP is disabled

INLINE\_POST is disabled

ESMFMKFILE: /home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/lib/esmf.mk

Found ESMF:

ESMF\_VERSION\_MAJOR: 8

ESMF\_F90COMPILEPATHS: /home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/mod;/home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/include;/home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/include

ESMF\_F90ESMFLINKRPATHS: -Wl,-rpath,/home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/lib

ESMF\_F90ESMFLINKLIBS: -lesmf -lrt -lstdc++ -ldl /home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/lib/libnetcdf.so /home/neeraj/ufs\_v1.0.0/install/NCEPLIBS-external\_clang/lib/libnetcdf.so

Setting configuration for cime

C compiler: Clang 9.0.0 (mpicc)

CXX compiler: Clang 9.0.0 (mpicxx)

Fortran compiler: GNU 9.3.0 (mpif90)

1: CMAKE\_Fortran\_FLAGS -fcray-pointer -fno-range-check -fbacktrace -I/usr/include

2: CMAKE\_Fortran\_FLAGS -fcray-pointer -fno-range-check -fbacktrace -I/usr/include -fconvert=big-endian -ffree-line-length-none -O

3: CMAKE\_Fortran\_FLAGS -fcray-pointer -fno-range-check -fbacktrace -I/usr/include -fconvert=big-endian -ffree-line-length-none -O

4: CMAKE\_Fortran\_FLAGS -fcray-pointer -fno-range-check -fbacktrace -I/usr/include -fconvert=big-endian -ffree-line-length-none -O

5: CMAKE\_C\_FLAGS -O3 -march=znver2 -fPIC -fopenmp -D\_\_IFC -std=c99 -O3 -march=znver2 -fPIC -fopenmp -O

DEBUG is disabled

REPRO is disabled

32BIT is disabled

OPENMP is disabled

INLINE\_POST is disabled

Selected physics package: gfs

INFOGot CCpp\_SCHEMES from environment variable:

/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/cpp/physics/physics/GFDL\_parse\_tracers.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/aer\_cloud.F;/home/neeraj/ufs\_v1.0.0

/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/aerclm\_def.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/aerinterp.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/calprectype.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cldwat2m\_micro.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cldmacro.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/date\_def.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/funcphys.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gcycle.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gfs\_phy\_tracer\_config.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gocart\_tracer\_config\_stub.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/h2o\_def.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/h2ointerp.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/iccn\_def.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/iccninterp.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/iounitdef.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/machine.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mersenne\_twister.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mfpbl.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/micro\_mg\_utils.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/micro\_mg2\_0.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/micro\_mg3\_0.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_bfmicrophysics.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/multi\_gases.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_gfdl\_cloud\_microphys.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_nst\_model.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_nst\_parameters.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_nst\_water\_prop.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_mp\_radar.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_mp\_thompson.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_mp\_thompson\_make\_number\_concentrations.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_bl\_mynn.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ph

ysics/module\_sf\_mynn.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_SF\_JSFC.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_BLMYJPBL.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_sf\_noahmp\_glacier.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_sf\_noahmplsm.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_module.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/ugwp\_driver\_v0.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_triggers.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_initialize.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_solvers.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_utils.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_orowam2017.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_vert\_lsatis.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_vert\_orodis.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_vert\_wmsdis.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/namelist\_soilveg.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mfpblt.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mfpbltq.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mfscu.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mfscuq.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/noahmp\_tables.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/num\_parthds.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/ozne\_def.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/ozinterp.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/physcons.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/physparam.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radcons.f90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radiation\_aerosols.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radiation\_astronomy.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radiation\_clouds.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radiation\_gases.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radiation\_surface.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/

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s/physics/GFS\_rrtmg\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_sice.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/samfdeepcnv.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/satmedmfvdif.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/ozphys.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cu\_gf\_driver\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cs\_conv\_aw\_adj.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_phys\_time\_vary.fv3.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/ozphys\_2015.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_suite\_interstitial.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/samfshalcnv.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/precpd.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_noahmp\_drv.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYJPBL\_wrapper.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_surface\_generic.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cu\_ntiedtke\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_diag.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/radlw\_main.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_debug.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYNNrad\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/satmedmfvdifq.F;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cs\_conv.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/shinhongvdif.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/h2ophys.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/rrtmg\_lw\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_nst.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cu\_ntiedtke\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cu\_ntiedtke.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/moninmf.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_diff.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mp\_thompson\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc



\_diag\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/m\_micro\_interstitial.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/m\_micro.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gfdl\_fv\_sat\_adj.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_surface\_loop\_control.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gcm\_shoc.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_rrtmg\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_GWD\_generic.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/rrtmg\_sw\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_MP\_generic.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cu\_gf\_driver.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_PBL\_generic.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mp\_thompson\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/mp\_thompson.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/rrtmg\_lw\_pre.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/gwdeps.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cires\_ugwp.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/get\_prs\_fv3.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYNSFC\_wrapper.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_suite\_init\_finalize\_test.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYJSFC\_wrapper.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYNNPBL\_wrapper.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_drv\_ruc.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_stochastics.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/drag\_suite.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_cice.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/module\_MYNNrad\_post.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/lsm\_ruc\_sfc\_sice\_interstitial.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_DCNV\_generic.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/cnvc90.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/GFS\_rad\_time\_vary.fv3.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/maximum\_hourly\_diagnostics.F90;/home

/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/sfc\_drv.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/dcyc2.f;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/physics/moninshoc.f

INFOGot CAPS from environment variable:

/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_fast\_physics\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_time\_vary\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_radiation\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_physics\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_stochastics\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_fast\_physics\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_time\_vary\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_radiation\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_physics\_cap.F90;/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld/atm/obj/FV3/ccpp/physics/ccpp\_FV3\_GFS\_v15p2\_no\_nsst\_stochastics\_cap.F90

Force 64 bits in CCpp\_layer

CMake Warning:

Manually-specified variables were not used by the project:

MPILIB

SUITES

RUN: make -j 4 CIME\_MODEL=ufs compile\_threaded=FALSE USE\_KOKKOS=FALSE  
CASEROOT="/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/ufs\_v1.0.0\_clang\_2\_2/cime/scripts/case1"  
CASETOOLS="/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/ufs\_v1.0.0\_clang\_2\_2/cime/scripts/case1/Tools"  
CIMEROOT="/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/ufs\_v1.0.0\_clang\_2\_2/cime"  
COMP\_INTERFACE="nuopc" COMPILER="clang" DEBUG="FALSE"  
EXEROOT="/home/neeraj/ufs\_v1.0.0/ufs\_v1.0.0/ufs\_v1.0.0\_clang\_2\_2/cime/ufs\_scratch/case1/bld"

```
INCROOT="/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/lib/i  
nclude"  
LIBROOT="/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/lib"  
MACH="linux" MPILIB="mpich" NINST_VALUE="a1" OS="Ubuntu" PIO_VERSION="2"  
SHAREDLIBROOT="/home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/  
bld" SMP_PRESENT="FALSE" USE_ESMF_LIB="TRUE" USE_MOAB="FALSE" COMP_LND="slnd"  
USE_ALBANY="FALSE" USE_PETSC="FALSE" VERBOSE=1  
  
FROM: /home/neeraj/ufs_v1.0.0/ufs_v1.0.0/ufs_v1.0.0_clang_2_2/cime/ufs_scratch/case1/bld/atm/obj  
stat: 2
```