

**** Compiling GSI and all libs ****

Modules Loaded

Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc
make[1]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/bacio
make[2]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/bacio'
gcc -c -DLINUX -Dfunder -DFortranByte=char -DFortranInt=int -DFortranLlong='long long' bacio.c
ar -rv ./libbacio.a bacio.o
ar: creating ./libbacio.a
a - bacio.o
make[2]: Warning: Archive 'libbacio.a' seems to have been created in deterministic mode. '%y' will always be updated. Please consider passing the U flag to ar to avoid the problem.
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 baciof.f
ar -rv ./libbacio.a baciof.o
a - baciof.o
/bin/cp *.mod ../../../../dtc/include
make[2]: Warning: Archive 'libbacio.a' seems to have been created in deterministic mode. '%y' will always be updated. Please consider passing the U flag to ar to avoid the problem.
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 bafrio.f
ar -rv ./libbacio.a bafrio.o
a - bafrio.o
make[2]: Warning: Archive 'libbacio.a' seems to have been created in deterministic mode. '%y' will always be updated. Please consider passing the U flag to ar to avoid the problem.
gcc -c -DLINUX -Dfunder -DFortranByte=char -DFortranInt=int -DFortranLlong='long long' byteswap.c
ar -rv ./libbacio.a byteswap.o
a - byteswap.o
make[2]: Warning: Archive 'libbacio.a' seems to have been created in deterministic mode. '%y' will always be updated. Please consider passing the U flag to ar to avoid the problem.
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 chk_endianc.f
ar -rv ./libbacio.a chk_endianc.o
a - chk_endianc.o
make[2]: Warning: Archive 'libbacio.a' seems to have been created in deterministic mode. '%y' will always be updated. Please consider passing the U flag to ar to avoid the problem.
/bin/cp ./libbacio.a ../../../../dtc/lib/

```
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/bacio'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/bufr
make[2]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/bufr'
makefile_DTC:57: warning: overriding recipe for target '.F.o'
../../../../dtc/configure.gsi:111: warning: ignoring old recipe for target '.F.o'
makefile_DTC:62: warning: overriding recipe for target '.f.o'
../../../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
makefile_DTC:65: warning: overriding recipe for target '.c.o'
../../../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp bufrlib.PRM bufrlib.prm
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 adn30.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 atrcpt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 bfrini.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 blocks.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 bort2.f
gcc -c -O3 -DUNDERSCORE bort_exit.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 bort.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 bvers.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cadn30.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 capit.f
gcc -c -O3 -DUNDERSCORE ccbfl.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 chekstab.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 chrtrna.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 chrtrn.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cktaba.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 closbf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 closmg.f
gcc -c -O3 -DUNDERSCORE cmpia.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cmpmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cmsgini.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cnved4.f
gcc -c -O3 -DUNDERSCORE cobfl.c
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gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 conwin.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 copybf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 copymg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 copysb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cpbfdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cpdxmm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cpymem.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 cpyupd.f
gcc -c -O3 -DUNDERScore crbmg.c
gcc -c -O3 -DUNDERScore cread.c
gcc -c -O3 -DUNDERScore cwbgm.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 datebf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 datelen.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 digit.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 drfini.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 drstpl.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 dumpbf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 dxdump.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 dxinit.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 dxmini.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 elemdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 errwrt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getabdb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getbmiss.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getlens.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getntbe.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
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-frecord-marker=4 -fdefault-real-8 gets1loc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gettagpr.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gettbh.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getvalnb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getwin.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 i4dy.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ibfms.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 icbfms.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ichkstr.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 icmpdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 icopysb.f
gcc -c -O3 -DUNDERScore icvidx.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 idn30.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 idxmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ifbget.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ifxy.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igetdate.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igetfxy.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igetntbi.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igetntbl.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igetsc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 igettdi.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 inctab.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 invcon.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 invmrg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 invtag.f

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gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 invwin.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iok2cpy.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ipkm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ipks.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ireadmg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ireadmm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ireadns.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ireadsb.f
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp irev.F > irev.fpp
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 irev.fpp
/bin/rm -f irev.fpp
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ishrdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ize.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 istsdesc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iupb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iupbs01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iupbs3.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iupm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iupvs01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 jstchr.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 jstnum.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 lcmgdf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 lmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 lstjpb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 makestab.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 maxout.f
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-frecord-marker=4 -fdefault-real-8 nvnwin.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 nwords.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 nxtwin.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 openbf.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 openbt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 openmb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 openmg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 padmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pad.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 parstr.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 parusr.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 parutg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pkb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pkbs1.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pkc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pkftbv.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pktdd.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pkvs01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 posapx.f
gcc -c -O3 -DUNDERScore rbytes.c
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rcstpl.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdbfdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdcmps.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmemm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmems.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmsgsb.f
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gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmsgb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmsgw.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmtbb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdmtbd.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdtree.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 rdusdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readerme.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readlc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readmg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readmm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readmt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readns.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 reads3.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 readsb.f
gcc -c -O3 -DUNDERScore restd.c
restd.c: In function 'restd':
restd.c:94:24: warning: '%02ld' directive writing between 2 and 11 bytes into
a region of size 6 [-Wformat-overflow=]
    printf( adn, "%c%02ld%c%c%c",
           ^~~~~
restd.c:94:21: note: directive argument in the range [-2147483648, 2147483647]
    printf( adn, "%c%02ld%c%c%c",
           ^~~~~~
In file included from /usr/include/stdio.h:862:0,
    from bufplib.h:1,
    from restd.c:49:
/usr/include/x86_64-linux-gnu/bits/stdio2.h:33:10: note:
'__builtin___sprintf_chk' output between 7 and 16 bytes into a destination of
size 7
    return __builtin___sprintf_chk ( __s, __USE_FORTIFY_LEVEL - 1,
           ^~~~~~
    __bos ( __s), __fmt, __va_arg_pack ());
           ~~~~~~
restd.c:106:24: warning: '%02ld' directive writing between 2 and 11 bytes into

```


a region of size 6 [-Wformat-overflow=]

```
printf( adn, "%c%02ld%c%c%c",  
        ^~~~~
```

restd.c:106:21: note: directive argument in the range [-2147483648, 2147483647]

```
printf( adn, "%c%02ld%c%c%c",  
        ^~~~~~
```

In file included from /usr/include/stdio.h:862:0,

from bufriplib.h:1,

from restd.c:49:

/usr/include/x86_64-linux-gnu/bits/stdio2.h:33:10: note:

â€˜__builtin__sprintf_chkâ€™ output between 7 and 16 bytes into a destination of size 7

```
return __builtin__sprintf_chk (__s, __USE_FORTIFY_LEVEL - 1,  
    ^~~~~~  
    __bos (__s), __fmt, __va_arg_pack ());  
    ~~~~~~
```

restd.c:124:24: warning: â€˜%03ldâ€™ directive writing between 3 and 11 bytes into a region of size 4 [-Wformat-overflow=]

```
printf( adn, "%c%c%c%03ld", '2', '0', '6', (long) ibit );  
        ^~~~~
```

restd.c:124:17: note: directive argument in the range [-2147483648, 2147483647]

```
printf( adn, "%c%c%c%03ld", '2', '0', '6', (long) ibit );  
        ^~~~~~
```

In file included from /usr/include/stdio.h:862:0,

from bufriplib.h:1,

from restd.c:49:

/usr/include/x86_64-linux-gnu/bits/stdio2.h:33:10: note:

â€˜__builtin__sprintf_chkâ€™ output between 7 and 15 bytes into a destination of size 7

```
return __builtin__sprintf_chk (__s, __USE_FORTIFY_LEVEL - 1,  
    ^~~~~~  
    __bos (__s), __fmt, __va_arg_pack ());  
    ~~~~~~
```

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 rewnbf.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 rjust.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 rsvfvm.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 rtrcpt.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 seqsdx.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 setblock.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 setbmiss.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 sntbbe.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

```

-frecord-marker=4 -fdefault-real-8  sntbde.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  status.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  stbfx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  stdmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  stndrd.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  stntbia.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  stntbi.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  strcln.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  strtpt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  string.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  strnum.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  strsuc.f
gcc -c -O3 -DUNDERScore stseq.c
In file included from stseq.c:56:0:
stseq.c: In function 'stseq_':
bufnlib.h:51:19: warning: implicit declaration of function 'stntbi_'; did you
mean 'stntbi'? [-Wimplicit-function-declaration]
#define stntbi    stntbi_
                ^
stseq.c:88:5: note: in expansion of macro 'stntbi_
    stntbi( &nd, lun, adn, nemo, cseq, sizeof( adn ), 8, 55 );
    ^~~~~~
bufnlib.h:35:19: warning: implicit declaration of function 'icvidx_'; did you
mean 'icvidx'? [-Wimplicit-function-declaration]
#define icvidx    icvidx_
                ^
stseq.c:104:21: note: in expansion of macro 'icvidx_
    &mstabs.idefxy[icvidx(&ipt,&i0,&imxcd)],
                ^~~~~~
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  tabent.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  tabsub.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  trybump.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  ufbcnt.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8  ufbcpy.f

```



```
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 upbb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 upb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 upc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 upds3.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 upftbv.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ups.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 uptdd.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 usrtpl.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 valx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 wrcmps.f
gcc -c -O3 -DUNDERScore wrdesc.c
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp wrdlen.F > wrdlen.fpp
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 wrdlen.fpp
/bin/rm -f wrdlen.fpp
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 wrdxtb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 writcp.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 writdx.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 writlc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 writsa.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 writsb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 wrtree.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 wtstat.f
ar -ruv ./libbufr_i4r8.a adn30.o atrcpt.o bfrini.o blocks.o bort2.o bort_exit.o
bort.o bvers.o cadn30.o capit.o ccbfl.o chekstab.o chrtrna.o chrtrn.o cktaba.o
closbf.o closmg.o cmpia.o cmpmsg.o msggini.o cnved4.o cobfl.o conwin.o copybf.o
copymg.o copysb.o cpbfdx.o cpdxmm.o cpymem.o cpyupd.o crbmg.o cread.o cwbmg.o
datebf.o datelen.o digit.o drfini.o drstpl.o dumpbf.o dxdump.o dxinit.o dxmini.o
elemdx.o errwrt.o getabdb.o getbmiss.o getlens.o getntbe.o gets1loc.o gettagpr.o
gettbh.o getvalnb.o getwin.o i4dy.o ibfms.o icbfms.o ichkstr.o icmpdx.o icopysb.o
icvidx.o idn30.o idxmsg.o ifbget.o ifxy.o igetdate.o igetfxy.o igetntbi.o
igetntbl.o igetsc.o igettdi.o inctab.o invcon.o invmrg.o invtag.o invwin.o
```

iok2cpy.o ipkm.o ipks.o ireadmg.o ireadmm.o ireadns.o ireadsb.o irev.o ishrdx.o
isize.o istdesc.o iupb.o iupbs01.o iupbs3.o iupm.o iupvs01.o jstchr.o jstnum.o
lcmgdf.o lmsg.o lstjpb.o makestab.o maxout.o mesgbc.o mesgbf.o minimg.o mrginv.o
msgfull.o msgini.o msgupd.o msgwrt.o mtinfo.o mvb.o nemock.o nemtab.o nemtba.o
nemtbox.o nemtbb.o nemtbd.o nenubd.o nevn.o newwin.o nmsub.o nmwrd.o numbck.o
nummtb.o numtab.o numtbd.o nvnwin.o nwords.o nxtwin.o openbf.o openbt.o openmb.o
openmg.o padmsg.o pad.o parstr.o parusr.o parutg.o pkb.o pkbs1.o pkc.o pkftbv.o
pktdd.o pkvs01.o posapx.o rbytes.o rcstpl.o rdbfdx.o rdcmps.o rdmemm.o rdmems.o
rdmsgsb.o rdmsgb.o rdmsgw.o rdmtbb.o rdmtbd.o rdtree.o rdusdx.o readdx.o readerme.o
readlc.o readmg.o readmm.o readmt.o readns.o reads3.o readsb.o restd.o rewnbf.o
rjust.o rsvfvm.o rtrcpt.o seqsdx.o setblock.o setbmiss.o sntbbe.o sntbde.o
status.o stbfdx.o stdmsg.o stndrd.o stntbia.o stntbi.o strcln.o strcpt.o string.o
strnum.o strsuc.o stseq.o tabent.o tabsub.o trybump.o ufbcnt.o ufbcpy.o ufbcup.o
ufbdmp.o ufbevn.o ufbget.o ufbint.o ufbinx.o ufbmem.o ufbmex.o ufbmms.o
ufbmns.o ufbovr.o ufbpos.o ufbqcd.o ufbqcp.o ufbrep.o ufbrms.o ufbrp.o ufbrw.o
ufbseq.o ufbsp.o ufbstp.o ufbtab.o ufbtam.o ufdump.o upbb.o upb.o upc.o upds3.o
upftbv.o ups.o uptdd.o usrtpl.o valx.o wrcmps.o wrdesc.o wrdlen.o wrdxtb.o
writcp.o writdx.o writlc.o writsa.o writsb.o wrtree.o wtstat.o

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

ar: creating ./libbufr_i4r8.a

a - adn30.o
a - atrcpt.o
a - bfrini.o
a - blocks.o
a - bort2.o
a - bort_exit.o
a - bort.o
a - bvers.o
a - cadn30.o
a - capit.o
a - ccbfl.o
a - chekstab.o
a - chrtrna.o
a - chrtrn.o
a - cktaba.o
a - closbf.o
a - closmg.o
a - cmpia.o
a - cmpmsg.o
a - cmsgini.o
a - cnved4.o
a - cobfl.o
a - conwin.o
a - copybf.o
a - copymg.o
a - copysb.o
a - cpbfdx.o
a - cpdxmm.o
a - cpymem.o
a - cpyupd.o

a - crbmg.o
a - cread.o
a - cwbmng.o
a - datebf.o
a - datelen.o
a - digit.o
a - drfini.o
a - drstpl.o
a - dumpbf.o
a - dxdump.o
a - dxinit.o
a - dxmini.o
a - elemdx.o
a - errwrt.o
a - getabdb.o
a - getbmiss.o
a - getlens.o
a - getntbe.o
a - gets1loc.o
a - gettagpr.o
a - gettbh.o
a - getvalnb.o
a - getwin.o
a - i4dy.o
a - ibfms.o
a - icbfms.o
a - ichkstr.o
a - icmpdx.o
a - icopysb.o
a - icvidx.o
a - idn30.o
a - idxmsg.o
a - ifbget.o
a - ifxy.o
a - igetdate.o
a - igetfxy.o
a - igetntbi.o
a - igetntbl.o
a - igetsc.o
a - igettdi.o
a - inctab.o
a - invcon.o
a - invmrg.o
a - invtag.o
a - invwin.o
a - iok2cpy.o
a - ipkm.o
a - ipks.o
a - ireadmng.o
a - ireadmm.o

a - ireadns.o
a - ireadsb.o
a - irev.o
a - ishrdx.o
a - isize.o
a - istdesc.o
a - iupb.o
a - iupbs01.o
a - iupbs3.o
a - iupm.o
a - iupvs01.o
a - jstchr.o
a - jstnum.o
a - lcmgdf.o
a - lmsg.o
a - lstjpb.o
a - makestab.o
a - maxout.o
a - mesgbc.o
a - mesgbf.o
a - minimg.o
a - mrginv.o
a - msgfull.o
a - msgini.o
a - msgupd.o
a - msgwrt.o
a - mtinfo.o
a - mvb.o
a - nemock.o
a - nemtab.o
a - nemtba.o
a - nemtbax.o
a - nemtbb.o
a - nemtbd.o
a - nenubd.o
a - nevn.o
a - newwin.o
a - nmsub.o
a - nmwrd.o
a - numbck.o
a - nummtb.o
a - numtab.o
a - numtbd.o
a - nvwin.o
a - nwords.o
a - nxtwin.o
a - openbf.o
a - openbt.o
a - openmb.o
a - openmg.o

a - padmsg.o
a - pad.o
a - parstr.o
a - parusr.o
a - parutg.o
a - pkb.o
a - pkbs1.o
a - pkc.o
a - pkftbv.o
a - pktdd.o
a - pkvs01.o
a - posapx.o
a - rbytes.o
a - rcstpl.o
a - rdbfdx.o
a - rdcmps.o
a - rdmemm.o
a - rdmems.o
a - rdmsgsb.o
a - rdmsgb.o
a - rdmsgw.o
a - rdmtbb.o
a - rdmtbd.o
a - rdtree.o
a - rdusdx.o
a - readdx.o
a - readerme.o
a - readlc.o
a - readmg.o
a - readmm.o
a - readmt.o
a - readns.o
a - reads3.o
a - readsb.o
a - restd.o
a - rewnbf.o
a - rjust.o
a - rsvfvm.o
a - rtrcpt.o
a - seqsdx.o
a - setblock.o
a - setbmiss.o
a - sntbbe.o
a - sntbde.o
a - status.o
a - stbfdx.o
a - stdmsg.o
a - stndrd.o
a - stntbia.o
a - stntbi.o

a - strc1n.o
a - strcpt.o
a - string.o
a - strnum.o
a - strsuc.o
a - stseq.o
a - tabent.o
a - tabsub.o
a - trybump.o
a - ufbcnt.o
a - ufbcpy.o
a - ufbcup.o
a - ufbdmp.o
a - ufbevn.o
a - ufbget.o
a - ufbin3.o
a - ufbint.o
a - ufbinx.o
a - ufbmem.o
a - ufbmex.o
a - ufbmms.o
a - ufbmns.o
a - ufbovr.o
a - ufbpos.o
a - ufbqcd.o
a - ufbqcp.o
a - ufbrep.o
a - ufbrms.o
a - ufbrrp.o
a - ufbrrw.o
a - ufbseq.o
a - ufbssp.o
a - ufbstp.o
a - ufbtab.o
a - ufbtam.o
a - ufdump.o
a - upbb.o
a - upb.o
a - upc.o
a - upds3.o
a - upftbv.o
a - ups.o
a - uptdd.o
a - usrtpl.o
a - valx.o
a - wrcmps.o
a - wrdesc.o
a - wrdlen.o
a - wrdxtb.o
a - writcp.o

a - writdx.o
a - writlc.o
a - writsa.o
a - writsb.o
a - wrtree.o
a - wtstat.o

/bin/cp ./libbufr_i4r8.a ../../../dtc/lib/

make[2]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/bufr'

Making all in /home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sp

make[2]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sp'

cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp fftpack.F > fftpack.fpp

gfortran -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

-frecord-marker=4 -fdefault-real-8 -c fftpack.fpp

fftpack.fpp:204:72:

CALL RFFTI1 (N,WSAVE(N+1),WSAVE(2*N+1))

1

Warning: Type mismatch in argument 'ifac' at (1); passed REAL(8) to INTEGER(4)

[-Wargument-mismatch]

fftpack.fpp:198:72:

CALL RFFTB1 (N,R,WSAVE,WSAVE(N+1),WSAVE(2*N+1))

1

Warning: Type mismatch in argument 'ifac' at (1); passed REAL(8) to INTEGER(4)

[-Wargument-mismatch]

fftpack.fpp:192:72:

CALL RFFTF1 (N,R,WSAVE,WSAVE(N+1),WSAVE(2*N+1))

1

Warning: Type mismatch in argument 'ifac' at (1); passed REAL(8) to INTEGER(4)

[-Wargument-mismatch]

/bin/rm -f fftpack.fpp

cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp ncpus.F > ncpus.fpp

gfortran -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

-frecord-marker=4 -fdefault-real-8 -c ncpus.fpp

/bin/rm -f ncpus.fpp

cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp splat.F > splat.fpp

gfortran -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

-frecord-marker=4 -fdefault-real-8 -c splat.fpp

/bin/rm -f splat.fpp

cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp lapack_gen.F >

lapack_gen.fpp

gfortran -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

-frecord-marker=4 -fdefault-real-8 -c lapack_gen.fpp

/bin/rm -f lapack_gen.fpp

gfortran -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian

-frecord-marker=4 -fdefault-real-8 -c spanaly.f spdz2uv.f speps.f spfft.f spfft1.f

spffte.f spfftpt.f spgradq.f spgradx.f spgrady.f splaplac.f splegend.f sppad.f

spsynth.f sptez.f sptezd.f sptezm.f sptezmd.f sptezmv.f sptezv.f sptgpm.f

sptgpm.d.f sptgpm.v.f sptgps.f sptgps.d.f sptgps.v.f sptgpt.f sptgpt.d.f sptgpts.d.f

sptgptv.f sptgptvd.f sptran.f sptrand.f sptranf.f sptranf0.f sptranf1.f sptranfv.f
sptranv.f sprun.f sprund.f sprung.f sprungv.f sprunl.f sprunm.f sprunmv.f
spruns.f sprunsv.f sprunv.f spuv2dz.f spvar.f spwget.f
ar -ruv ./libsp_i4r8.a fftpack.o ncpus.o splat.o lapack_gen.o spanaly.o
spd2uv.o speps.o spfft.o spfft1.o spffte.o spfftpt.o spgradq.o spgradx.o
spgrady.o splaplac.o splegend.o sppad.o spsynth.o sptez.o sptezd.o sptezm.o
sptezmd.o sptezmv.o sptezv.o sptgpm.o sptgpm.d.o sptgpmv.o sptgps.o sptgps.d.o
sptgpsv.o sptgpt.o sptgpt.d.o sptgpts.d.o sptgptv.o sptgptvd.o sptran.o sptrand.o
sptranf.o sptranf0.o sptranf1.o sptranfv.o sptranv.o sprun.o sprund.o sprung.o
sprungv.o sprunl.o sprunm.o sprunmv.o spruns.o sprunsv.o sprunv.o spuv2dz.o
spvar.o spwget.o

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

ar: creating ./libsp_i4r8.a

a - fftpack.o
a - ncpus.o
a - splat.o
a - lapack_gen.o
a - spanaly.o
a - spd2uv.o
a - speps.o
a - spfft.o
a - spfft1.o
a - spffte.o
a - spfftpt.o
a - spgradq.o
a - spgradx.o
a - spgrady.o
a - splaplac.o
a - splegend.o
a - sppad.o
a - spsynth.o
a - sptez.o
a - sptezd.o
a - sptezm.o
a - sptezmd.o
a - sptezmv.o
a - sptezv.o
a - sptgpm.o
a - sptgpm.d.o
a - sptgpmv.o
a - sptgps.o
a - sptgps.d.o
a - sptgpsv.o
a - sptgpt.o
a - sptgpt.d.o
a - sptgpts.d.o
a - sptgptv.o
a - sptgptvd.o
a - sptran.o
a - sptrand.o

```
a - sptranf.o
a - sptranf0.o
a - sptranf1.o
a - sptranfv.o
a - sptranv.o
a - sptrun.o
a - sptrund.o
a - sptrung.o
a - sptrungv.o
a - sptrunl.o
a - sptrunm.o
a - sptrunmv.o
a - sptruns.o
a - sptrunsv.o
a - sptrunv.o
a - spuv2dz.o
a - spvar.o
a - spwget.o
/bin/cp ./libsp_i4r8.a ../../../../dtc/lib/
make[2]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sp'
Making all in /home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sfcio
make[2]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sfcio'
makefile_DTC:19: warning: overriding recipe for target '.f90.o'
../../../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
gfortran -ffree-form -ffree-line-length-none -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c sfcio_module.f90
ar -ruv ./libsfcio_i4r4.a sfcio_module.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating ./libsfcio_i4r4.a
a - sfcio_module.o
/bin/cp *.mod ../../../../dtc/include
/bin/cp ./libsfcio_i4r4.a ../../../../dtc/lib/
make[2]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sfcio'
Making all in /home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sigio
make[2]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sigio'
makefile_DTC:20: warning: overriding recipe for target '.f90.o'
../../../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
gfortran -ffree-form -ffree-line-length-none -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c sigio_module.f90
sigio_r_module.f90
ar -ruv ./libsigio_i4r4.a sigio_module.o sigio_r_module.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating ./libsigio_i4r4.a
a - sigio_module.o
a - sigio_r_module.o
/bin/cp *.mod ../../../../dtc/include
/bin/cp ./libsigio_i4r4.a ../../../../dtc/lib/
make[2]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/sigio'
Making all in /home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/nemsio
make[2]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/lib/libsrc/nemsio'
```

```
makefile_DTC:17: warning: overriding recipe for target '.f90.o'
../../././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
mpif90 -ffree-form -ffree-line-length-none -c nemsio_openclose.f90
mpif90 -ffree-form -ffree-line-length-none -c nemsio_read.f90
mpif90 -ffree-form -ffree-line-length-none -c nemsio_write.f90
mpif90 -ffree-form -ffree-line-length-none -c nemsio_module.f90
mpif90 -ffree-form -ffree-line-length-none -c nemsio_module_mpi.f90
ar -ruv libnemsio.a nemsio_openclose.o nemsio_read.o nemsio_write.o
nemsio_module.o nemsio_module_mpi.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating libnemsio.a
a - nemsio_openclose.o
a - nemsio_read.o
a - nemsio_write.o
a - nemsio_module.o
a - nemsio_module_mpi.o
/bin/cp *.mod ../../././dtc/include
/bin/cp ./libnemsio.a ../../././dtc/lib
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/nemsio'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/misc
make[2]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/misc'
makefile_DTC:18: warning: overriding recipe for target '.f.o'
../../././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
makefile_DTC:21: warning: overriding recipe for target '.c.o'
../../././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 mova2i.f
ar -ruv ../../././dtc/lib/libprepdecode_i4r8.a mova2i.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating ../../././dtc/lib/libprepdecode_i4r8.a
a - mova2i.o
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/misc'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/crtm_2.2.3
make[2]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/crtm_2.2.3'
makefile_DTC:22: warning: overriding recipe for target '.f90.o'
../../././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
makefile_DTC:25: warning: overriding recipe for target '.fpp.o'
../../././dtc/configure.gsi:105: warning: ignoring old recipe for target '.fpp.o'
makefile_DTC:39: warning: overriding recipe for target 'clean'
makefile_DTC:32: warning: ignoring old recipe for target 'clean'
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Type_Kinds.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 File_Utility.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Message_Handler.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Date_Utility.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 DateTime_Utility.f90
```

gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Timing_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Compare_Float_Numbers.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Endian_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Binary_File_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Sort_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Search_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 String_UTILITY.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Fundamental_Constants.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Hyperbolic_Step.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Spectral_Units_Conversion.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 UnitTest_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SensorInfo_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Subset_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NLTECoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ACCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SpcCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NLTECoeff_Binary_IO.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ACCoeff_Binary_IO.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SpcCoeff_Binary_IO.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CloudCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CloudCoeff_Binary_IO.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 AerosolCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
AerosolCoeff_Binary_IO.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Zeeman_Input_Define.f90

```
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SSU_Input_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Options_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Interpolation.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ASvar_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AerosolCoeff.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_RTSolution_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AtmosOptics_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Geometry_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_GeometryInfo_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Aerosol_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Cloud_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_Atmosphere_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_SpcCoeff.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AerosolScatter.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_ChannelInfo_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AOD_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 IRwaterCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SEcategory_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 LSEatlas_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 MWwaterLUT_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 FitCoeff_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 MWwaterCoeff_Define.f90
```

```
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SnowEM_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NESDIS_LandEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_AMSRE_SICEEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_AMSRE_SNOWEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_AMSU_SICEEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_AMSU_SnowEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_MHS_SICEEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_MHS_SnowEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SEAICE_PHYEM_MODULE.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NESDIS_SSMI_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SSMI_SIceEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SSMI_SnowEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SSMIS_SeaIceEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SSMIS_SnowEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_SnowEM_ATMS_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
NESDIS_ATMS_SnowEM_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Utility.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_SensorInfo.f90
```



```
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_GeometryInfo.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 iAtm_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Model_Profiles.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Atmosphere.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CSvar_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_CloudScatter.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_MoleculeScatter.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_SfcOptics_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_SEcategory.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_VIS_Ice_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_VIS_Snow_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_VIS_Water_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_VIS_Land_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_IR_Ice_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_IR_Snow_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_IRSSEM.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_IR_Water_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_IR_Land_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_MW_Ice_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_MW_Snow_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Azimuth_Emissivity_F6_Module.f90
```

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gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Azimuth_Emissivity_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Slope_Variance.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Reflection_Correction_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Large_Scale_Correction_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Small_Scale_Correction_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Foam_Utility_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Liu.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Fresnel.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_FastemX.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Fastem1.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Ellison.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Guillou.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_LowFrequency_MWSSEM.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_MW_Water_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_MW_Land_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_SfcOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 A0var_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AtmosOptics.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Planck_Functions.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 RTV_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 SOI_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
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-fno-range-check -fconvert=big-endian -frecord-marker=4 ADA_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Emission_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Common_RTSolution.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_RTSolution.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_AntennaCorrection.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_AncillaryInput_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_LifeCycle.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NLTE_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NLTE_Predictor_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_NLTECorrection.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
Profile_Utility_Parameters.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 PAFV_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
ODPS_CoordinateMapping.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODPS_Predictor_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODZeeman_Predictor.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
ODZeeman_AtmosAbsorption.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODPS_AtmosAbsorption.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODAS_Predictor_Define.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODAS_Predictor.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODAS_AtmosAbsorption.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODSSU_AtmosAbsorption.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 ODPS_Predictor.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Predictor_Define.f90

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gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_AtmosAbsorption.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Predictor.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Forward_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4
CRTM_Tangent_Linear_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_Adjoint_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 CRTM_K_Matrix_Module.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 Zeeman_Utility.f90
gfortran -ffree-form -ffree-line-length-none -c -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 NLTE_Predictor_IO.f90
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cpp -P -D_REAL8 -DWRF -DLINUX -DPGI CRTM_Module.fpp > CRTM_Module.f90
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-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
CRTM_Module.f90
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a - ODPS_Binary_IO.o
a - ODPS_Define.o
a - ODPS_TauCoeff.o
a - CRTM_GeometryInfo.o
a - ODSSU_AtmosAbsorption.o
a - ODSSU_Define.o
a - ODSSU_Binary_IO.o
a - ODSSU_TauCoeff.o
a - Profile_Utility_Parameters.o
a - ODPS_CoordinateMapping.o
a - ODZeeman_TauCoeff.o
a - ODZeeman_AtmosAbsorption.o
a - ODZeeman_Predictor.o
a - Zeeman_Utility.o
a - CRTM_NLTECorrection.o
a - NLTE_Parameters.o
a - NLTE_Predictor_Define.o
a - NLTE_Predictor_IO.o
a - CRTM_Module.o
/bin/cp *.mod ../../../dtc/include
/bin/cp ./libcrtm.a ../../../dtc/lib
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/crtm_2.2.3'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3emc_v2.0.5
make[2]: Entering directory
'/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3emc_v2.0.5'
makefile_DTC:28: warning: overriding recipe for target '.f.o'
```

```
../../../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
makefile_DTC:31: warning: overriding recipe for target '.c.o'
../../../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 args_mod.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 -J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include gblevents.f
gblevents.f:2579:72:
```

```
CALL GBLEVN11(IMAX,JMAX,GRDS(1,1,NS))
```

1

```
Warning: Type mismatch in argument 'grid' at (1); passed REAL(4) to REAL(8)
[-Wargument-mismatch]
gblevents.f:2626:72:
```

```
CALL GBLEVN11(IMAX,JMAX,GRDV(1,1,L,K))
```

1

```
Warning: Type mismatch in argument 'grid' at (1); passed REAL(4) to REAL(8)
[-Wargument-mismatch]
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbens.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 isrchne.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iw3mat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 mersenne_twister.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 mova2i.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 orders.f
orders.f:124:72:
```

```
if(itype==0) CALL ORDEC4(IN,ISORT,IDATA,INDEX,N,M,I1,I2)
```

1

```
Warning: Type mismatch in argument 'idata' at (1); passed INTEGER(8) to
CHARACTER(1) [-Wargument-mismatch]
orders.f:125:72:
```

```
if(itype/=0) CALL ORDER4(IN,ISORT,IDATA,INDEX,N,M,I1,I2)
```

1

```
Warning: Type mismatch in argument 'idata' at (1); passed INTEGER(8) to
INTEGER(4) [-Wargument-mismatch]
orders.f:128:72:
```

```
IF(ITYPE==0) CALL ORDEC8(IN,ISORT,IDATA,INDEX,N,M,I1,I2)
```

1

```
Warning: Type mismatch in argument 'idata' at (1); passed INTEGER(8) to
```

CHARACTER(1) [-Wargument-mismatch]

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgbens.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 start.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 summary.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ai40.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ai41.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ctzdat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa03.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa03v.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa04.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa06.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa09.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa11.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa12.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fa13.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb00.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb02.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb03.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb04.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb05.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb06.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb07.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fb08.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian


```
CALL FI8501(KARY, ISTEP, KCLASS, KSEG, IDATA, RDATA,  
1
```

```
Warning: Rank mismatch in argument "rdata" at (1) (rank-1 and scalar)  
[-Wargument-mismatch]  
w3fi85.f:2238:45:
```

```
CALL FI8501(KARY, ISTEP, KCLASS, KSEG, IDATA, RDATA,  
1
```

```
Warning: Rank mismatch in argument "idata" at (1) (rank-1 and scalar)  
[-Wargument-mismatch]  
w3fi85.f:2268:22:
```

```
CALL FI8503(KDESC, NRDESC,  
1
```

```
Warning: Rank mismatch in argument "i" at (1) (scalar and rank-2)  
[-Wargument-mismatch]  
w3fi85.f:1696:53:
```

```
CALL FI8501(KARY, ISTEP, KCLASS, KSEG, IDATA, RDATA,  
1
```

```
Warning: Rank mismatch in argument "idata" at (1) (rank-1 and scalar)  
[-Wargument-mismatch]  
w3fi85.f:1704:36:
```

```
CALL FI8502(*4200, KBUFR, KCLASS, KSEG,  
1
```

```
Warning: Rank mismatch in argument "kbufr" at (1) (scalar and rank-1)  
[-Wargument-mismatch]  
w3fi85.f:624:36:
```

```
CALL FI8502(*4000, KBUFR, KCLASS, KSEG,  
1
```

```
Warning: Rank mismatch in argument "kbufr" at (1) (scalar and rank-1)  
[-Wargument-mismatch]  
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian  
-frecord-marker=4 -fdefault-real-8 w3fm07.f  
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian  
-frecord-marker=4 -fdefault-real-8 w3fm08.f  
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian  
-frecord-marker=4 -fdefault-real-8 w3fp04.f  
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian  
-frecord-marker=4 -fdefault-real-8 w3fp05.f  
w3fp05.f:108:25:
```

```
B 1H ,1HG,1H ,1HH,1H /  
1
```

```
Warning: Legacy Extension: Hollerith constant at (1)  
w3fp05.f:109:22:
```

DATA KHASTR/1H*/

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:110:22:

DATA KHBLNK/1H /

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:111:22:

DATA KHDOLR/1H\$/

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:112:22:

DATA KHMNS /1H-/

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:113:22:

DATA KHPLUS/1H+ /

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:114:22:

DATA KHRSTR/1H1/

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:115:58:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:122:58:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /

1

Warning: Legacy Extension: Hollerith constant at (1)
w3fp05.f:277:72:

ASSIGN 1800 TO KBR

1

Warning: Deleted feature: ASSIGN statement at (1)
w3fp05.f:292:72:

ASSIGN 2100 TO KBR

1

Warning: Deleted feature: ASSIGN statement at (1)
w3fp05.f:298:72:

ASSIGN 2200 TO KBR

1

Warning: Deleted feature: ASSIGN statement at (1)
w3fp05.f:409:72:

ASSIGN 4100 TO KBR

1

Warning: Deleted feature: ASSIGN statement at (1)
w3fp05.f:491:72:

ASSIGN 5800 TO KBR

1

Warning: Deleted feature: ASSIGN statement at (1)
w3fp05.f:531:34:

IF (.NOT.LCNTR) GO TO KBR,(1800,2100,2200,4100,5800)
1

Warning: Deleted feature: Assigned GOTO statement at (1)
w3fp05.f:539:34:

IF (PCCNT.EQ.0) GO TO KBR,(1800,2100,2200,4100,5800)
1

Warning: Deleted feature: Assigned GOTO statement at (1)
w3fp05.f:547:18:

GO TO KBR,(1800,2100,2200,4100,5800)
1

Warning: Deleted feature: Assigned GOTO statement at (1)
w3fp05.f:609:18:

GO TO KBR,(1800,2100,2200,4100,5800)
1

Warning: Deleted feature: Assigned GOTO statement at (1)
w3fp05.f:121:22:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:26:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:30:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:34:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:38:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:42:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:46:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:50:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:54:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:121:58:

DATA KNUMB /1H0,1H ,1H1,1H ,1H2,1H ,1H3,1H ,1H4,1H ,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:22:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:26:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:30:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:34:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:38:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:42:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:46:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:50:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:54:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:122:58:

1 1H5,1H ,1H6,1H ,1H7,1H ,1H8,1H ,1H9,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:22:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:26:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:30:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:34:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:38:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:42:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:46:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:50:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:54:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:115:58:

DATA KHTBL /1H0,1H1,1H2,1H3,1H4,1H5,1H6,1H7,1H8,1H9/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:114:22:

DATA KHRSTR/1H1/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:113:22:

DATA KHPLUS/1H+/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:112:22:

DATA KHMNS /1H-/
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:111:22:

DATA KHDOLR/1H\$/

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:110:22:

DATA KHBLNK/1H /

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:109:22:

DATA KHASTR/1H*/

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:9:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:13:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:17:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:21:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:25:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:29:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:33:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,

1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:37:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:41:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:45:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:107:49:

A 1HA,1H ,1HB,1H ,1HC,1H ,1HD,1H ,1HE,1H ,1HF,
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:108:9:

B 1H ,1HG,1H ,1HH,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:108:13:

B 1H ,1HG,1H ,1HH,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:108:17:

B 1H ,1HG,1H ,1HH,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:108:21:

B 1H ,1HG,1H ,1HH,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)
w3fp05.f:108:25:

B 1H ,1HG,1H ,1HH,1H /
1

Warning: Extension: Conversion from HOLLERITH to INTEGER(4) at (1)

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fp06.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fp10.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fq07.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian


```

-frecord-marker=4 -fdefault-real-8 w3ft210.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft211.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft212.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft213.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft214.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft21.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft26.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft33.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft38.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft39.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft40.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft41.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft43v.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3log.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3miscan.f
w3miscan.f:1175:16:

```

```

SWNN = RISC02(BTAA,TPWNN,LQWNN,SSTNN,JERR)

```

```

1

```

```

Warning: Type mismatch in argument 'â€™' at (1); passed INTEGER(4) to REAL(8)
[-Wargument-mismatch]

```

```

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 xdopen.f
ar -ruv ./libw3emc_i4r8.a args_mod.o gblevents.o getgbens.o isrchne.o iw3mat.o
mersenne_twister.o mova2i.o orders.o putgbens.o start.o summary.o w3ai40.o
w3ai41.o w3ctzdat.o w3fa01.o w3fa03.o w3fa03v.o w3fa04.o w3fa06.o w3fa09.o
w3fa11.o w3fa12.o w3fa13.o w3fb00.o w3fb01.o w3fb02.o w3fb03.o w3fb04.o w3fb05.o
w3fb06.o w3fb07.o w3fb08.o w3fb09.o w3fb10.o w3fb11.o w3fb12.o w3fc02.o w3fc05.o
w3fc06.o w3fc07.o w3fc08.o w3fi02.o w3fi03.o w3fi18.o w3fi19.o w3fi20.o w3fi32.o
w3fi47.o w3fi48.o w3fi52.o w3fi61.o w3fi65.o w3fi66.o w3fi67.o w3fi70.o w3fi78.o
w3fi85.o w3fm07.o w3fm08.o w3fp04.o w3fp05.o w3fp06.o w3fp10.o w3fq07.o w3ft00.o
w3ft01.o w3ft02.o w3ft03.o w3ft05.o w3ft05v.o w3ft06.o w3ft06v.o w3ft07.o w3ft08.o
w3ft09.o w3ft10.o w3ft11.o w3ft12.o w3ft16.o w3ft17.o w3ft201.o w3ft202.o
w3ft203.o w3ft204.o w3ft205.o w3ft206.o w3ft207.o w3ft208.o w3ft209.o w3ft210.o
w3ft211.o w3ft212.o w3ft213.o w3ft214.o w3ft21.o w3ft26.o w3ft33.o w3ft38.o
w3ft39.o w3ft40.o w3ft41.o w3ft43v.o w3log.o w3miscan.o xdopen.o

```

```
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating ./libw3emc_i4r8.a
a - args_mod.o
a - gblevents.o
a - getgbens.o
a - isrchne.o
a - iw3mat.o
a - mersenne_twister.o
a - mova2i.o
a - orders.o
a - putgbens.o
a - start.o
a - summary.o
a - w3ai40.o
a - w3ai41.o
a - w3ctzdat.o
a - w3fa01.o
a - w3fa03.o
a - w3fa03v.o
a - w3fa04.o
a - w3fa06.o
a - w3fa09.o
a - w3fa11.o
a - w3fa12.o
a - w3fa13.o
a - w3fb00.o
a - w3fb01.o
a - w3fb02.o
a - w3fb03.o
a - w3fb04.o
a - w3fb05.o
a - w3fb06.o
a - w3fb07.o
a - w3fb08.o
a - w3fb09.o
a - w3fb10.o
a - w3fb11.o
a - w3fb12.o
a - w3fc02.o
a - w3fc05.o
a - w3fc06.o
a - w3fc07.o
a - w3fc08.o
a - w3fi02.o
a - w3fi03.o
a - w3fi18.o
a - w3fi19.o
a - w3fi20.o
a - w3fi32.o
a - w3fi47.o
```

a - w3fi48.o
a - w3fi52.o
a - w3fi61.o
a - w3fi65.o
a - w3fi66.o
a - w3fi67.o
a - w3fi70.o
a - w3fi78.o
a - w3fi85.o
a - w3fm07.o
a - w3fm08.o
a - w3fp04.o
a - w3fp05.o
a - w3fp06.o
a - w3fp10.o
a - w3fq07.o
a - w3ft00.o
a - w3ft01.o
a - w3ft02.o
a - w3ft03.o
a - w3ft05.o
a - w3ft05v.o
a - w3ft06.o
a - w3ft06v.o
a - w3ft07.o
a - w3ft08.o
a - w3ft09.o
a - w3ft10.o
a - w3ft11.o
a - w3ft12.o
a - w3ft16.o
a - w3ft17.o
a - w3ft201.o
a - w3ft202.o
a - w3ft203.o
a - w3ft204.o
a - w3ft205.o
a - w3ft206.o
a - w3ft207.o
a - w3ft208.o
a - w3ft209.o
a - w3ft210.o
a - w3ft211.o
a - w3ft212.o
a - w3ft213.o
a - w3ft214.o
a - w3ft21.o
a - w3ft26.o
a - w3ft33.o
a - w3ft38.o


```
a - w3ft39.o
a - w3ft40.o
a - w3ft41.o
a - w3ft43v.o
a - w3log.o
a - w3miscan.o
a - xdopen.o
/bin/cp *.mod ../../../../dtc/include
/bin/cp ./libw3emc_i4r8.a ../../../../dtc/lib/
make[2]: Leaving directory
'/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3emc_v2.0.5'
Making all in /home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3nco_v2.0.6
make[2]: Entering directory
'/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3nco_v2.0.6'
makefile_DTC:22: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
makefile_DTC:25: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 aea.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 erexit.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 errmsg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 fparsei.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 fparser.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gbytec.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gbyte.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gbytesc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gbytes.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getbit.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgb1.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgb1re.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgb1r.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgb1s.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbe.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbeh.f
```

```

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbem.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbemh.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbemn.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbemp.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbep.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbex.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbexm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbh.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbm.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbmh.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbmp.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgbp.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgi.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 getgir.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 gtbits.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 idsdef.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 instrument.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iw3jdn.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iw3pds.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 iw3unp29.f
iw3unp29.f:389:12:

```

```

      IF(I03029(LUNIT,OBS,IER).EQ.1) THEN

```

```

        1

```

```

Warning: Type mismatch in argument "obs" at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]

```

```

iw3unp29.f:395:16:

```

```
ELSEIF(I03029(LUNIT,OBS,IER).EQ.3) THEN
```

```
1
```

```
Warning: Type mismatch in argument 'obs' at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]
```

```
iw3unp29.f:413:16:
```

```
ELSEIF(I03029(LUNIT,OBS,IER).EQ.999) THEN
```

```
1
```

```
Warning: Type mismatch in argument 'obs' at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]
```

```
iw3unp29.f:428:12:
```

```
IF(I03029(LUNIT,OBS,IER).NE.0) JWFILE(LUNIT) = 0
```

```
1
```

```
Warning: Type mismatch in argument 'obs' at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]
```

```
iw3unp29.f:519:12:
```

```
IF(I03029(LUNIT,HDR,IER).EQ.1) THEN
```

```
1
```

```
Warning: Type mismatch in argument 'obs' at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]
```

```
iw3unp29.f:520:21:
```

```
I01029 = I03029(0,HDR,IER)
```

```
1
```

```
Warning: Type mismatch in argument 'obs' at (1); passed REAL(8) to INTEGER(4)
[-Wargument-mismatch]
```

```
iw3unp29.f:301:20:
```

```
COMMON/IO29CC/SUBSET, IDAT10
```

```
1
```

```
Warning: Named COMMON block 'io29cc' at (1) shall be of the same size as
elsewhere (16 vs 12 bytes)
```

```
iw3unp29.f:304:20:
```

```
COMMON/IO29FF/QMS(255,9)
```

```
1
```

```
Warning: Named COMMON block 'io29ff' at (1) shall be of the same size as
elsewhere (18360 vs 2295 bytes)
```

```
iw3unp29.f:306:20:
```

```
COMMON/IO29HH/SFQ(5)
```

```
1
```

```
Warning: Named COMMON block 'io29hh' at (1) shall be of the same size as
elsewhere (40 vs 5 bytes)
```

```
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 ixgb.f
```

```
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 lengds.f
```

```

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 makwmo.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 mkfldsep.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pdsens.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 pdseup.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgbe.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgben.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgbex.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 putgbn.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 q9ie32.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 r63w72.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 sbytec.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 sbyte.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 sbytesc.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 sbytes.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 skgb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ai00.f
w3ai00.f:157:72:

```

```
CALL Q9E3I6(X,B,1,ISTAT)
```

1

```
Warning: Type mismatch in argument 'a' at (1); passed REAL(4) to INTEGER(4)
[-Wargument-mismatch]
w3ai00.f:180:72:
```

```
CALL Q9EI32(A,rtemp(2),1,ISTAT)
```

1

```
Warning: Type mismatch in argument 'a' at (1); passed REAL(4) to INTEGER(4)
[-Wargument-mismatch]
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ai01.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ai08.f
```



```
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fi82.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fi83.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fi88.f
w3fi88.f:1108:34:
```

```
*          IRF1SW,NEWREF,ITBLD,ITBLD2,
          1
```

```
Warning: Rank mismatch in argument "newref" at (1) (rank-1 and scalar)
[-Wargument-mismatch]
w3fi88.f:4409:72:
```

```
CALL FI8814(KDATA(K,IZ),3,ISCAL3(IXB+IZ),IERR,IPTR)
          1
```

```
Warning: Type mismatch in argument "ascchr" at (1); passed INTEGER(4) to
CHARACTER(1) [-Wargument-mismatch]
w3fi88.f:4430:72:
```

```
CALL FI8814(KDATA(K,IZ),10,IRFVL3(IXB+IZ),IERR,IPTR)
          1
```

```
Warning: Type mismatch in argument "ascchr" at (1); passed INTEGER(4) to
CHARACTER(1) [-Wargument-mismatch]
w3fi88.f:4441:72:
```

```
CALL FI8814(KDATA(K,1),3,IWIDE3(IXB+1),IERR,IPTR)
          1
```

```
Warning: Type mismatch in argument "ascchr" at (1); passed INTEGER(4) to
CHARACTER(1) [-Wargument-mismatch]
w3fi88.f:579:17:
```

```
*          KFXY3,ANAME3,AUNIT3,ISCAL3,IRFVL3,IWIDE3,
          1
```

```
Warning: Rank mismatch in argument "kfy3" at (1) (rank-1 and scalar)
[-Wargument-mismatch]
w3fi88.f:824:34:
```

```
*          IRF1SW,NEWREF,ITBLD,ITBLD2,
          1
```

```
Warning: Rank mismatch in argument "newref" at (1) (rank-1 and scalar)
[-Wargument-mismatch]
w3fi88.f:864:17:
```

```
*          KFXY3,ANAME3,AUNIT3,ISCAL3,IRFVL3,IWIDE3,
          1
```

```
Warning: Rank mismatch in argument "kfy3" at (1) (rank-1 and scalar)
[-Wargument-mismatch]
w3fi88.f:3827:72:
```

CALL FI8814 (KDATA(IZ,CLK),1,MF,IERR,IPTR)

1

Warning: Type mismatch in argument `ascchr` at (1); passed INTEGER(4) to CHARACTER(1) [-Wargument-mismatch]

w3fi88.f:3831:72:

CALL FI8814 (KDATA(IZ,CLK),2,MX,IERR,IPTR)

1

Warning: Type mismatch in argument `ascchr` at (1); passed INTEGER(4) to CHARACTER(1) [-Wargument-mismatch]

w3fi88.f:3835:72:

CALL FI8814 (KDATA(IZ,CLK),3,MY,IERR,IPTR)

1

Warning: Type mismatch in argument `ascchr` at (1); passed INTEGER(4) to CHARACTER(1) [-Wargument-mismatch]

w3fi88.f:3957:72:

CALL FI8814(KDATA(IZ,CLK),3,ISCAL1(IXB+IZ),IERR,IPTR)

1

Warning: Type mismatch in argument `ascchr` at (1); passed INTEGER(4) to CHARACTER(1) [-Wargument-mismatch]

w3fi88.f:3994:22:

CALL FI8814(AAAA,10,IRFVL1(IXB+IZ),IERR,IPTR)

1

Warning: Character length of actual argument shorter than of dummy argument `ascchr` (32/64) at (1) [-Wargument-mismatch]

w3fi88.f:4015:72:

CALL FI8814(KDATA(IZ,CLK),3,IWIDE1(IXB+IZ),IERR,IPTR)

1

Warning: Type mismatch in argument `ascchr` at (1); passed INTEGER(4) to CHARACTER(1) [-Wargument-mismatch]

w3fi88.f:4080:22:

CALL FI8814(AAAA,6,IHOLD,IERR,IPTR)

1

Warning: Character length of actual argument shorter than of dummy argument `ascchr` (32/64) at (1) [-Wargument-mismatch]

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 w3fi92.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 w3fp11.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 w3fp12.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 w3fp13.f

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -fdefault-real-8 w3fs13.f

```

gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fs15.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fs21.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3fs26.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ft32.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3kind.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3locdat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3movdat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3nogds.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3pradat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3reddat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3tagb.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3trnarg.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3unpk77.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3utcdat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3valdat.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 w3ymdh4.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 xmovex.f
gfortran -c -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian
-frecord-marker=4 -fdefault-real-8 xstore.f

```

```
gcc -c -O0 -DLINUX -DUNDERScore mova2i.c
```

```
gcc -c -O0 -DLINUX -DUNDERScore summary.c
```

```
summary.c: In function ~cputim:
```

```
summary.c:259:13: warning: implicit declaration of function ~times; did you
mean ~utimes? [-Wimplicit-function-declaration]
```

```
ret = times (&Time_buffer);
```

```
^~~~~
```

```
utimes
```

```
ar -ruv ./libw3nco_i4r8.a aea.o errexist.o errmsg.o fparsei.o fparser.o gbytec.o
gbyte.o gbytesc.o gbytes.o getbit.o getgb1.o getgb1re.o getgb1r.o getgb1s.o
getgbe.o getgbeh.o getgbem.o getgbemh.o getgbemn.o getgbemp.o getgbep.o getgbex.o
getgbexm.o getgb.o getgbh.o getgbm.o getgbmh.o getgbmp.o getgbp.o getgi.o getgir.o
gtbits.o idsdef.o instrument.o iw3jdn.o iw3pds.o iw3unp29.o ixgb.o lengds.o
makwmo.o mkfldsep.o pdsens.o pdseup.o putgbe.o putgben.o putgbex.o putgb.o
```


putgbn.o q9ie32.o r63w72.o sbytec.o sbyte.o sbytesc.o sbytes.o skgb.o w3ai00.o
w3ai01.o w3ai08.o w3ai15.o w3ai18.o w3ai19.o w3ai24.o w3ai38.o w3ai39.o w3aq15.o
w3as00.o w3difdat.o w3doxdat.o w3fi01.o w3fi04.o w3fi58.o w3fi59.o w3fi62.o
w3fi63.o w3fi64.o w3fi68.o w3fi69.o w3fi71.o w3fi72.o w3fi73.o w3fi74.o w3fi75.o
w3fi76.o w3fi82.o w3fi83.o w3fi88.o w3fi92.o w3fp11.o w3fp12.o w3fp13.o w3fs13.o
w3fs15.o w3fs21.o w3fs26.o w3ft32.o w3kind.o w3locdat.o w3movdat.o w3nogds.o
w3pradat.o w3reddat.o w3tagb.o w3trnarg.o w3unpk77.o w3utcdat.o w3valdat.o
w3ymdh4.o xmovex.o xstore.o mova2i.o summary.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating ./libw3nco_i4r8.a

a - aea.o
a - errexist.o
a - errmsg.o
a - fparsei.o
a - fparser.o
a - gbytec.o
a - gbyte.o
a - gbytesc.o
a - gbytes.o
a - getbit.o
a - getgb1.o
a - getgb1re.o
a - getgb1r.o
a - getgb1s.o
a - getgbe.o
a - getgbeh.o
a - getgbem.o
a - getgbemh.o
a - getgbemn.o
a - getgbemp.o
a - getgbep.o
a - getgbex.o
a - getgbexm.o
a - getgb.o
a - getgbh.o
a - getgbm.o
a - getgbmh.o
a - getgbmp.o
a - getgbp.o
a - getgi.o
a - getgir.o
a - gtbits.o
a - idsdef.o
a - instrument.o
a - iw3jdn.o
a - iw3pds.o
a - iw3unp29.o
a - ixgb.o
a - lengds.o
a - makwmo.o

a - mkfldsep.o
a - pdsens.o
a - pdseup.o
a - putgbe.o
a - putgben.o
a - putgbex.o
a - putgb.o
a - putgbn.o
a - q9ie32.o
a - r63w72.o
a - sbytec.o
a - sbyte.o
a - sbytesc.o
a - sbytes.o
a - skgb.o
a - w3ai00.o
a - w3ai01.o
a - w3ai08.o
a - w3ai15.o
a - w3ai18.o
a - w3ai19.o
a - w3ai24.o
a - w3ai38.o
a - w3ai39.o
a - w3aq15.o
a - w3as00.o
a - w3difdat.o
a - w3doxdat.o
a - w3fi01.o
a - w3fi04.o
a - w3fi58.o
a - w3fi59.o
a - w3fi62.o
a - w3fi63.o
a - w3fi64.o
a - w3fi68.o
a - w3fi69.o
a - w3fi71.o
a - w3fi72.o
a - w3fi73.o
a - w3fi74.o
a - w3fi75.o
a - w3fi76.o
a - w3fi82.o
a - w3fi83.o
a - w3fi88.o
a - w3fi92.o
a - w3fp11.o
a - w3fp12.o
a - w3fp13.o

```

a - w3fs13.o
a - w3fs15.o
a - w3fs21.o
a - w3fs26.o
a - w3ft32.o
a - w3kind.o
a - w3locdat.o
a - w3movdat.o
a - w3nogds.o
a - w3pradat.o
a - w3reddat.o
a - w3tagb.o
a - w3trnarg.o
a - w3unpk77.o
a - w3utcdat.o
a - w3valdat.o
a - w3ymdh4.o
a - xmovex.o
a - xstore.o
a - mova2i.o
a - summary.o
/bin/cp ./libw3nco_i4r8.a ../../../../dtc/lib/
make[2]: Leaving directory
'/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc/w3nco_v2.0.6'
make[1]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/lib/libsrc'
Making all in /home/user/comGSIV3.6_EnKFv1.2/src
make[1]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/src'
makefile_DTC:102: warning: overriding recipe for target '.F90.o'
../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp kinds.F90 > kinds.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c kinds.fpp
/bin/rm -f kinds.fpp
/bin/rm -f constants.o constants.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
constants.f90
constants.f90:46:6:

    use kinds, only: r_single,r_kind,i_kind,r_quad,i_long
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'constants.o' failed

```

```
make[1]: [constants.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp mpeu_mpif.F90 >
mpeu_mpif.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mpeu_mpif.fpp
/bin/rm -f mpeu_mpif.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp mpimod.F90 > mpimod.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c mpimod.fpp
mpimod.fpp:28:6:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'mpimod.o' failed
```

```
make[1]: [mpimod.o] Error 1 (ignored)
```

```
/bin/rm -f mpimod.fpp
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp mpeu_util.F90 >
```

```
mpeu_util.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
mpeu_util.fpp
```

```
mpeu_util.fpp:2156:7:
```

```
    use mpimod, only: mype
```

```
    1
```

```
Fatal Error: Can't open module file "mpimod.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'mpeu_util.o' failed
```

```
make[1]: [mpeu_util.o] Error 1 (ignored)
```

```
/bin/rm -f mpeu_util.fpp
```

```
/bin/rm -f m_stats.o m_stats.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c m_stats.f90
```

m_stats.f90:31:4:

```
use kinds,only : r_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'm_stats.o' failed

make[1]: [m_stats.o] Error 1 (ignored)

```
/bin/rm -f m_rerank.o m_rerank.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
m_rerank.f90
```

m_rerank.f90:5:6:

```
use kinds, only : r_double,r_single,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'm_rerank.o' failed

make[1]: [m_rerank.o] Error 1 (ignored)

```
cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp gsi_bundlemod.F90 >
```

```
gsi_bundlemod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
gsi_bundlemod.fpp
```

gsi_bundlemod.fpp:25:7:

```
use kinds, only: i_kind,r_single,r_kind,r_double,r_quad
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

makefile_DTC:102: recipe for target 'gsi_bundlemod.o' failed

make[1]: [gsi_bundlemod.o] Error 1 (ignored)

```
/bin/rm -f gsi_bundlemod.fpp
```

```
/bin/rm -f blendmod.o blendmod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
blendmod.f90
```

blendmod.f90:26:7:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'blendmod.o' failed

make[1]: [blendmod.o] Error 1 (ignored)

/bin/rm -f egrid2agrid_mod.o egrid2agrid_mod.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

egrid2agrid_mod.f90

egrid2agrid_mod.f90:65:7:

use kinds, only: r_kind,i_kind,r_double,r_single

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'egrid2agrid_mod.o' failed

make[1]: [egrid2agrid_mod.o] Error 1 (ignored)

/bin/rm -f general_specmod.o general_specmod.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

general_specmod.f90

general_specmod.f90:59:6:

use kinds, only: r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'general_specmod.o' failed

make[1]: [general_specmod.o] Error 1 (ignored)

/bin/rm -f general_sub2grid_mod.o general_sub2grid_mod.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

general_sub2grid_mod.f90

general_sub2grid_mod.f90:68:7:

use kinds, only: r_double,i_kind,i_long,r_single,r_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'general_sub2grid_mod.o' failed

make[1]: [general_sub2grid_mod.o] Error 1 (ignored)

```
/bin/rm -f hybrid_ensemble_parameters.o hybrid_ensemble_parameters.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
hybrid_ensemble_parameters.f90
hybrid_ensemble_parameters.f90:241:6:
```

```
use kinds, only: i_kind,r_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'hybrid_ensemble_parameters.o' failed
```

```
make[1]: [hybrid_ensemble_parameters.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp mpl_allreduce.F90 >
```

```
mpl_allreduce.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
mpl_allreduce.fpp
```

```
mpl_allreduce.fpp:83:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'mpl_allreduce.o' failed
```

```
make[1]: [mpl_allreduce.o] Error 1 (ignored)
```

```
/bin/rm -f mpl_allreduce.fpp
```

```
/bin/rm -f jcmod.o jcmod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c jcmod.f90
```

```
jcmod.f90:38:6:
```

```
use kinds, only: r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'jcmod.o' failed
```

```
make[1]: [jcmod.o] Error 1 (ignored)
```

```
/bin/rm -f gsi_4dvar.o gsi_4dvar.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_4dvar.f90
gsi_4dvar.f90:95:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsi_4dvar.o' failed
```

```
make[1]: [gsi_4dvar.o] Error 1 (ignored)
```

```
/bin/rm -f control_vectors.o control_vectors.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
control_vectors.f90
```

```
control_vectors.f90:68:4:
```

```
use kinds, only: r_kind,r_double,r_single,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'control_vectors.o' failed
```

```
make[1]: [control_vectors.o] Error 1 (ignored)
```

```
/bin/rm -f mod_wrfmass_to_a.o mod_wrfmass_to_a.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
mod_wrfmass_to_a.f90
```

```
mod_wrfmass_to_a.f90:32:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mod_wrfmass_to_a.o' failed
```

```
make[1]: [mod_wrfmass_to_a.o] Error 1 (ignored)
```

```
/bin/rm -f mod_nmmb_to_a.o mod_nmmb_to_a.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
mod_nmmb_to_a.f90
```

```
mod_nmmb_to_a.f90:38:6:
```



```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mod_nmmb_to_a.o' failed
```

```
make[1]: [mod_nmmb_to_a.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp gridmod.F90 > gridmod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c gridmod.fpp
```

```
gridmod.fpp:27:6:
```

```
use kinds, only: i_byte,r_kind,r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gridmod.o' failed
```

```
make[1]: [gridmod.o] Error 1 (ignored)
```

```
/bin/rm -f gridmod.fpp
```

```
/bin/rm -f general_commvars_mod.o general_commvars_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
general_commvars_mod.f90
```

```
general_commvars_mod.f90:36:7:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_commvars_mod.o' failed
```

```
make[1]: [general_commvars_mod.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp obsmod.F90 > obsmod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c obsmod.fpp
```

```
obsmod.fpp:370:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'obsmod.o' failed
```

```
make[1]: [obsmod.o] Error 1 (ignored)
```

```
/bin/rm -f obsmod.fpp
/bin/rm -f pcpinfo.o pcpinfo.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c pcpinfo.f90
```

pcpinfo.f90:53:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'pcpinfo.o' failed

make[1]: [pcpinfo.o] Error 1 (ignored)

```
/bin/rm -f timermod.o timermod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
timermod.f90
```

timermod.f90:51:7:

```
use kinds, only : i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'timermod.o' failed

make[1]: [timermod.o] Error 1 (ignored)

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp correlated_obsmod.F90 >
correlated_obsmod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
correlated_obsmod.fpp
```

correlated_obsmod.fpp:48:4:

```
use kinds, only: i_kind, r_single, r_kind, r_double
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

makefile_DTC:102: recipe for target 'correlated_obsmod.o' failed

make[1]: [correlated_obsmod.o] Error 1 (ignored)

```
/bin/rm -f correlated_obsmod.fpp
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp gsi_chemguess_mod.F90 >
gsi_chemguess_mod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_chemguess_mod.fpp
gsi_chemguess_mod.fpp:54:4:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsi_chemguess_mod.o' failed
```

```
make[1]: [gsi_chemguess_mod.o] Error 1 (ignored)
```

```
/bin/rm -f gsi_chemguess_mod.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp gsi_metguess_mod.F90 >
```

```
gsi_metguess_mod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_metguess_mod.fpp
gsi_metguess_mod.fpp:54:4:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsi_metguess_mod.o' failed
```

```
make[1]: [gsi_metguess_mod.o] Error 1 (ignored)
```

```
/bin/rm -f gsi_metguess_mod.fpp
```

```
/bin/rm -f read_diag.o read_diag.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_diag.f90
read_diag.f90:35:6:
```

```
use kinds, only: i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_diag.o' failed
```

```
make[1]: [read_diag.o] Error 1 (ignored)
```

```
/bin/rm -f radinfo.o radinfo.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c radinfo.f90
```

radinfo.f90:73:6:

```
use kinds, only: r_kind,i_kind,r_quad
1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

../dtc/configure.gsi:123: recipe for target 'radinfo.o' failed

make[1]: [radinfo.o] Error 1 (ignored)

/bin/rm -f aircraftinfo.o aircraftinfo.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
aircraftinfo.f90
```

aircraftinfo.f90:29:6:

```
use kinds, only: r_kind,i_kind,r_quad,r_double
1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

../dtc/configure.gsi:123: recipe for target 'aircraftinfo.o' failed

make[1]: [aircraftinfo.o] Error 1 (ignored)

/bin/rm -f bias_predictors.o bias_predictors.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
bias_predictors.f90
```

bias_predictors.f90:32:4:

```
use kinds, only: r_kind,i_kind
1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

../dtc/configure.gsi:123: recipe for target 'bias_predictors.o' failed

make[1]: [bias_predictors.o] Error 1 (ignored)

/bin/rm -f state_vectors.o state_vectors.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
state_vectors.f90
```

state_vectors.f90:48:4:

```
use kinds, only: r_kind,i_kind,r_single,r_double,r_quad
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'state_vectors.o' failed
make[1]: [state_vectors.o] Error 1 (ignored)
/bin/rm -f clw_mod.o clw_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c clw_mod.f90

clw_mod.f90:98:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'clw_mod.o' failed
make[1]: [clw_mod.o] Error 1 (ignored)
/bin/rm -f radiance_mod.o radiance_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
radiance_mod.f90
radiance_mod.f90:25:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'radiance_mod.o' failed
make[1]: [radiance_mod.o] Error 1 (ignored)
/bin/rm -f gsi_nstcouplermod.o gsi_nstcouplermod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
gsi_nstcouplermod.f90
gsi_nstcouplermod.f90:37:4:
```

```
use kinds,          only: r_single, r_kind, i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsi_nstcouplermod.o' failed
make[1]: [gsi_nstcouplermod.o] Error 1 (ignored)
/bin/rm -f tendsmod.o tendsmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
tendsmod.f90
tendsmod.f90:52:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tendsmod.o' failed
make[1]: [tendsmod.o] Error 1 (ignored)
/bin/rm -f derivsmod.o derivsmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
derivsmod.f90
derivsmod.f90:33:4:
```

```
use kinds, only: i_kind, r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'derivsmod.o' failed
make[1]: [derivsmod.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp guess_grids.F90 >
guess_grids.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
guess_grids.fpp
guess_grids.fpp:28:6:
```

```
use kinds, only: r_single,r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'guess_grids.o' failed
make[1]: [guess_grids.o] Error 1 (ignored)
/bin/rm -f guess_grids.fpp
/bin/rm -f m_berror_stats.o m_berror_stats.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_berror_stats.f90
m_berror_stats.f90:37:7:
```

```
    use kinds,          only : i_kind
    1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

```
../dtc/configure.gsi:123: recipe for target 'm_berror_stats.o' failed
make[1]: [m_berror_stats.o] Error 1 (ignored)
```

```
/bin/rm -f convinfo.o convinfo.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convinfo.f90
convinfo.f90:68:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

```
../dtc/configure.gsi:123: recipe for target 'convinfo.o' failed
make[1]: [convinfo.o] Error 1 (ignored)
```

```
/bin/rm -f chemmod.o chemmod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c chemmod.f90
chemmod.f90:19:6:
```

```
    use kinds, only : i_kind, r_kind, r_single
    1
```

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file compilation terminated.

```
../dtc/configure.gsi:123: recipe for target 'chemmod.o' failed
make[1]: [chemmod.o] Error 1 (ignored)
```

```
/bin/rm -f m_berror_stats_reg.o m_berror_stats_reg.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_berror_stats_reg.f90
m_berror_stats_reg.f90:12:10:
```

```
use kinds,only : i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'm_berror_stats_reg.o' failed
make[1]: [m_berror_stats_reg.o] Error 1 (ignored)
```

```
/bin/rm -f jfunc.o jfunc.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c jfunc.f90
jfunc.f90:103:6:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'jfunc.o' failed
make[1]: [jfunc.o] Error 1 (ignored)
```

```
/bin/rm -f adjtest.o adjtest.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c adjtest.f90
```

```
adjtest.f90:28:4:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'adjtest.o' failed
make[1]: [adjtest.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp gsi_unformatted.F90 >
gsi_unformatted.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
gsi_unformatted.fpp
gsi_unformatted.fpp:40:6:
```

```
use kinds , only: i_kind
1
```



```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'gsi_unformatted.o' failed
make[1]: [gsi_unformatted.o] Error 1 (ignored)
/bin/rm -f gsi_unformatted.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_cvgridLookup.F90 >
m_cvgridLookup.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_cvgridLookup.fpp
m_cvgridLookup.fpp:44:6:
```

```
use kinds, only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_cvgridLookup.o' failed
make[1]: [m_cvgridLookup.o] Error 1 (ignored)
/bin/rm -f m_cvgridLookup.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_latlonRange.F90 >
m_latlonRange.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_latlonRange.fpp
m_latlonRange.fpp:43:6:
```

```
use kinds, only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_latlonRange.o' failed
make[1]: [m_latlonRange.o] Error 1 (ignored)
/bin/rm -f m_latlonRange.fpp
/bin/rm -f gsi_4dcouplermod.o gsi_4dcouplermod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_4dcouplermod.f90
gsi_4dcouplermod.f90:12:4:
```

```
use gsi_bundlemod, only: gsi_bundle
1
```

```
Fatal Error: Can't open module file "gsi_bundlemod.mod" for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsi_4dcouplermod.o' failed
make[1]: [gsi_4dcouplermod.o] Error 1 (ignored)
/bin/rm -f obs_sensitivity.o obs_sensitivity.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
obs_sensitivity.f90
obs_sensitivity.f90:37:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'obs_sensitivity.o' failed
make[1]: [obs_sensitivity.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_obsdiagNode.F90 >
m_obsdiagNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsdiagNode.fpp
m_obsdiagNode.fpp:48:6:
```

```
use kinds , only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_obsdiagNode.o' failed
make[1]: [m_obsdiagNode.o] Error 1 (ignored)
/bin/rm -f m_obsdiagNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_obsNode.F90 >
m_obsNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsNode.fpp
m_obsNode.fpp:40:6:
```

```
use kinds, only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
```

```
compilation terminated.
makefile_DTC:102: recipe for target 'm_obsNode.o' failed
make[1]: [m_obsNode.o] Error 1 (ignored)
/bin/rm -f m_obsNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_obsLList.F90 >
m_obsLList.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsLList.fpp
m_obsLList.fpp:45:6:
```

```
    use kinds , only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_obsLList.o' failed
```

```
make[1]: [m_obsLList.o] Error 1 (ignored)
```

```
/bin/rm -f m_obsLList.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_cldchNode.F90 >
```

```
m_cldchNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_cldchNode.fpp
```

```
m_cldchNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_cldchNode.o' failed
```

```
make[1]: [m_cldchNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_cldchNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_pm10Node.F90 >
```

```
m_pm10Node.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_pm10Node.fpp
```

```
m_pm10Node.fpp:39:6:
```

```
    use obsmod, only: obs_diag
```

1

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_pm10Node.o' failed
make[1]: [m_pm10Node.o] Error 1 (ignored)
/bin/rm -f m_pm10Node.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_lcbasNode.F90 >
m_lcbasNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_lcbasNode.fpp
m_lcbasNode.fpp:40:6:
```

use obsmod, only: obs_diag

1

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_lcbasNode.o' failed
make[1]: [m_lcbasNode.o] Error 1 (ignored)
/bin/rm -f m_lcbasNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_tcamtNode.F90 >
m_tcamtNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_tcamtNode.fpp
m_tcamtNode.fpp:40:6:
```

use obsmod, only: obs_diag

1

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_tcamtNode.o' failed
make[1]: [m_tcamtNode.o] Error 1 (ignored)
/bin/rm -f m_tcamtNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_howvNode.F90 >
m_howvNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_hovvNode.fpp
m_hovvNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_hovvNode.o' failed
```

```
make[1]: [m_hovvNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_hovvNode.fpp
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_pmslNode.F90 >
```

```
m_pmslNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
m_pmslNode.fpp
```

```
m_pmslNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_pmslNode.o' failed
```

```
make[1]: [m_pmslNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_pmslNode.fpp
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_mitmNode.F90 >
```

```
m_mitmNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
m_mitmNode.fpp
```

```
m_mitmNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_mitmNode.o' failed
```

```
make[1]: [m_mitmNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_mitmNode.fpp
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_mxtmNode.F90 >
```

```
m_mxtmNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_mxtmNode.fpp
m_mxtmNode.fpp:40:6:

    use obsmod, only: obs_diag
    1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_mxtmNode.o' failed
make[1]: [m_mxtmNode.o] Error 1 (ignored)
/bin/rm -f m_mxtmNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_td2mNode.F90 >
m_td2mNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_td2mNode.fpp
m_td2mNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
    1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_td2mNode.o' failed
make[1]: [m_td2mNode.o] Error 1 (ignored)
/bin/rm -f m_td2mNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_wspd10mNode.F90 >
m_wspd10mNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_wspd10mNode.fpp
m_wspd10mNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag
    1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_wspd10mNode.o' failed
make[1]: [m_wspd10mNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_wspd10mNode.fpp
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_uwnd10mNode.F90 >
m_uwnd10mNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_uwnd10mNode.fpp
m_uwnd10mNode.fpp:41:6:
```

```
use obsmod, only: obs_diag
```

```
1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_uwnd10mNode.o' failed
```

```
make[1]: [m_uwnd10mNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_uwnd10mNode.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_vwnd10mNode.F90 >
```

```
m_vwnd10mNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_vwnd10mNode.fpp
```

```
m_vwnd10mNode.fpp:41:6:
```

```
use obsmod, only: obs_diag
```

```
1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_vwnd10mNode.o' failed
```

```
make[1]: [m_vwnd10mNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_vwnd10mNode.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_pblhNode.F90 >
```

```
m_pblhNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_pblhNode.fpp
```

```
m_pblhNode.fpp:39:6:
```

```
use obsmod, only: obs_diag
```

```
1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
```

```
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_pblhNode.o' failed
make[1]: [m_pblhNode.o] Error 1 (ignored)
/bin/rm -f m_pblhNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_visNode.F90 >
m_visNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_visNode.fpp
m_visNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_visNode.o' failed
```

```
make[1]: [m_visNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_visNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_gustNode.F90 >
```

```
m_gustNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_gustNode.fpp
```

```
m_gustNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_gustNode.o' failed
```

```
make[1]: [m_gustNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_gustNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_pm2_5Node.F90 >
```

```
m_pm2_5Node.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_pm2_5Node.fpp
```

```
m_pm2_5Node.fpp:39:6:
```



```
use obsmod, only: obs_diag
1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_pm2_5Node.o' failed
make[1]: [m_pm2_5Node.o] Error 1 (ignored)
/bin/rm -f m_pm2_5Node.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_aerolNode.F90 >
m_aerolNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_aerolNode.fpp
m_aerolNode.fpp:40:6:
```

```
use obsmod, only: obs_diag
1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_aerolNode.o' failed
make[1]: [m_aerolNode.o] Error 1 (ignored)
/bin/rm -f m_aerolNode.fpp
/bin/rm -f aeroinfo.o aeroinfo.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
aeroinfo.f90
aeroinfo.f90:41:6:
```

```
use kinds, only:r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'aeroinfo.o' failed
make[1]: [aeroinfo.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_aeroNode.F90 >
m_aeroNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_aeroNode.fpp
```

m_aeroNode.fpp:39:6:

```
    use obsmod, only: obs_diag,aofp_obs_diag
```

```
    1
```

Fatal Error: Can't open module file `~obsmod.mod`™ for reading at (1): No such file or directory

compilation terminated.

makefile_DTC:102: recipe for target 'm_aeroNode.o' failed

make[1]: [m_aeroNode.o] Error 1 (ignored)

```
/bin/rm -f m_aeroNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_colvkNode.F90 >
```

```
m_colvkNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
m_colvkNode.fpp
```

m_colvkNode.fpp:39:6:

```
    use obsmod, only: obs_diag,aofp_obs_diag
```

```
    1
```

Fatal Error: Can't open module file `~obsmod.mod`™ for reading at (1): No such file or directory

compilation terminated.

makefile_DTC:102: recipe for target 'm_colvkNode.o' failed

make[1]: [m_colvkNode.o] Error 1 (ignored)

```
/bin/rm -f m_colvkNode.fpp
```

```
/bin/rm -f lag_interp.o lag_interp.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
lag_interp.f90
```

lag_interp.f90:44:6:

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'lag_interp.o' failed

make[1]: [lag_interp.o] Error 1 (ignored)

```
/bin/rm -f lag_traj.o lag_traj.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
lag_traj.f90
```

lag_traj.F90:43:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'lag_traj.o' failed

make[1]: [lag_traj.o] Error 1 (ignored)

cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_lagNode.F90 >

m_lagNode.fpp

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

m_lagNode.fpp

m_lagNode.fpp:39:6:

use obsmod, only: obs_diag

1

Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory

compilation terminated.

makefile_DTC:102: recipe for target 'm_lagNode.o' failed

make[1]: [m_lagNode.o] Error 1 (ignored)

/bin/rm -f m_lagNode.fpp

cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_tcpNode.F90 >

m_tcpNode.fpp

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

m_tcpNode.fpp

m_tcpNode.fpp:39:6:

use obsmod, only: obs_diag

1

Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory

compilation terminated.

makefile_DTC:102: recipe for target 'm_tcpNode.o' failed

make[1]: [m_tcpNode.o] Error 1 (ignored)

/bin/rm -f m_tcpNode.fpp

cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_radNode.F90 >

m_radNode.fpp

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_radNode.fpp
m_radNode.fpp:40:6:
```

```
    use obsmod, only: obs_diag,aofp_obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_radNode.o' failed
make[1]: [m_radNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_radNode.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_gpsNode.F90 >
m_gpsNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_gpsNode.fpp
```

```
m_gpsNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_gpsNode.o' failed
make[1]: [m_gpsNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_gpsNode.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_o3lNode.F90 >
m_o3lNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_o3lNode.fpp
```

```
m_o3lNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_o3lNode.o' failed
make[1]: [m_o3lNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_o3lNode.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_ozNode.F90 >
m_ozNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_ozNode.fpp
m_ozNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag,aofp_obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_ozNode.o' failed
```

```
make[1]: [m_ozNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_ozNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_pcpNode.F90 >
m_pcpNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_pcpNode.fpp
m_pcpNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_pcpNode.o' failed
```

```
make[1]: [m_pcpNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_pcpNode.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_pwNode.F90 >
m_pwNode.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_pwNode.fpp
m_pwNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_pwNode.o' failed
```

```
make[1]: [m_pwNode.o] Error 1 (ignored)
/bin/rm -f m_pwNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_sstNode.F90 >
m_sstNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_sstNode.fpp
m_sstNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_sstNode.o' failed
```

```
make[1]: [m_sstNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_sstNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_dwNode.F90 >
m_dwNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_dwNode.fpp
m_dwNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_dwNode.o' failed
```

```
make[1]: [m_dwNode.o] Error 1 (ignored)
```

```
/bin/rm -f m_dwNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_rwNode.F90 >
m_rwNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_rwNode.fpp
m_rwNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_rwNode.o' failed
make[1]: [m_rwNode.o] Error 1 (ignored)
/bin/rm -f m_rwNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_srwNode.F90 >
m_srwNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_srwNode.fpp
m_srwNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_srwNode.o' failed
make[1]: [m_srwNode.o] Error 1 (ignored)
/bin/rm -f m_srwNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_spdNode.F90 >
m_spdNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_spdNode.fpp
m_spdNode.fpp:39:6:
```

```
    use obsmod, only: obs_diag
```

```
    1
```

```
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_spdNode.o' failed
make[1]: [m_spdNode.o] Error 1 (ignored)
/bin/rm -f m_spdNode.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_qNode.F90 > m_qNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c m_qNode.fpp
m_qNode.fpp:39:6:
```

```
use obsmod, only: obs_diag
1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_qNode.o' failed
make[1]: [m_qNode.o] Error 1 (ignored)
/bin/rm -f m_qNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_wNode.F90 > m_wNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c m_wNode.fpp
m_wNode.fpp:39:6:
```

```
use obsmod, only: obs_diag
1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_wNode.o' failed
make[1]: [m_wNode.o] Error 1 (ignored)
/bin/rm -f m_wNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_tNode.F90 > m_tNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c m_tNode.fpp
m_tNode.fpp:39:6:
```

```
use obsmod, only: obs_diag
1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_tNode.o' failed
make[1]: [m_tNode.o] Error 1 (ignored)
/bin/rm -f m_tNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_psNode.F90 >
m_psNode.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
m_psNode.fpp
m_psNode.fpp:39:6:
```



```
    use kinds , only: i_kind,r_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_psNode.o' failed
make[1]: [m_psNode.o] Error 1 (ignored)
/bin/rm -f m_psNode.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_obsNodeTypeManager.F90
> m_obsNodeTypeManager.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsNodeTypeManager.fpp
m_obsNodeTypeManager.fpp:41:6:
```

```
    use obsmod, only: nobs_type
    1
Fatal Error: Can't open module file "obsmod.mod" for reading at (1): No such
file or directory
compilation terminated.
makefile_DTC:102: recipe for target 'm_obsNodeTypeManager.o' failed
make[1]: [m_obsNodeTypeManager.o] Error 1 (ignored)
/bin/rm -f m_obsNodeTypeManager.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_obsdiags.F90 >
m_obsdiags.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsdiags.fpp
m_obsdiags.fpp:58:6:
```

```
    use kinds, only: i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_obsdiags.o' failed
make[1]: [m_obsdiags.o] Error 1 (ignored)
/bin/rm -f m_obsdiags.fpp
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_obsHeadBundle.F90 >
m_obsHeadBundle.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_obsHeadBundle.fpp
```

m_obsHeadBundle.fpp:74:6:

```
use m_obsNode , only: obsNode
1
```

Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No such file or directory
compilation terminated.

makefile_DTC:102: recipe for target 'm_obsHeadBundle.o' failed

make[1]: [m_obsHeadBundle.o] Error 1 (ignored)

/bin/rm -f m_obsHeadBundle.fpp

/bin/rm -f intjcm.o intjcm.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

intjcm.f90

intjcm.f90:24:4:

```
use kinds, only: r_kind,i_kind,r_quad
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'intjcm.o' failed

make[1]: [intjcm.o] Error 1 (ignored)

/bin/rm -f qcm.o qcm.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c qcm.f90

qcm.f90:117:6:

```
use kinds, only: i_kind,r_kind,r_double
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'qcm.o' failed

make[1]: [qcm.o] Error 1 (ignored)

/bin/rm -f intclch.o intclch.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

intclch.f90

intclch.f90:24:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file  $\hat{\sim}$ m_obsnode.mod $\hat{\sim}$ ™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intclcdch.o' failed
make[1]: [intclcdch.o] Error 1 (ignored)
/bin/rm -f intlcbas.o intlcbas.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
intlcbas.f90
intlcbas.f90:23:4:
```

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file  $\hat{\sim}$ m_obsnode.mod $\hat{\sim}$ ™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intlcbas.o' failed
make[1]: [intlcbas.o] Error 1 (ignored)
/bin/rm -f inttcamt.o inttcamt.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
inttcamt.f90
inttcamt.f90:24:4:
```

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file  $\hat{\sim}$ m_obsnode.mod $\hat{\sim}$ ™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'inttcamt.o' failed
make[1]: [inttcamt.o] Error 1 (ignored)
/bin/rm -f inthowv.o inthowv.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c inthowv.f90
inthowv.f90:24:4:
```

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file  $\hat{\sim}$ m_obsnode.mod $\hat{\sim}$ ™ for reading at (1): No
such file or directory
```

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'inthewv.o' failed
make[1]: [inthewv.o] Error 1 (ignored)
/bin/rm -f intpmsl.o intpmsl.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intpmsl.f90
```

intpmsl.f90:24:4:

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intpmsl.o' failed
make[1]: [intpmsl.o] Error 1 (ignored)
/bin/rm -f intmitm.o intmitm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intmitm.f90
```

intmitm.f90:24:4:

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intmitm.o' failed
make[1]: [intmitm.o] Error 1 (ignored)
/bin/rm -f intmxtm.o intmxtm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intmxtm.f90
```

intmxtm.f90:24:4:

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intmxtm.o' failed
```

```
make[1]: [intmxtm.o] Error 1 (ignored)
/bin/rm -f inttd2m.o inttd2m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c inttd2m.f90
```

inttd2m.f90:24:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'inttd2m.o' failed
```

```
make[1]: [inttd2m.o] Error 1 (ignored)
```

```
/bin/rm -f intwspd10m.o intwspd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
intwspd10m.f90
```

intwspd10m.f90:24:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intwspd10m.o' failed
```

```
make[1]: [intwspd10m.o] Error 1 (ignored)
```

```
/bin/rm -f intuwnd10m.o intuwnd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
intuwnd10m.f90
```

intuwnd10m.f90:25:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intuwnd10m.o' failed
```

```
make[1]: [intuwnd10m.o] Error 1 (ignored)
```

```
/bin/rm -f intvwnd10m.o intvwnd10m.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
intvwnd10m.f90
intvwnd10m.f90:24:4:
```

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intvwnd10m.o' failed
```

```
make[1]: [intvwnd10m.o] Error 1 (ignored)
```

```
/bin/rm -f intpblh.o intpblh.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intpblh.f90
```

```
intpblh.f90:25:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intpblh.o' failed
```

```
make[1]: [intpblh.o] Error 1 (ignored)
```

```
/bin/rm -f intvis.o intvis.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intvis.f90
```

```
intvis.f90:24:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intvis.o' failed
```

```
make[1]: [intvis.o] Error 1 (ignored)
```

```
/bin/rm -f intgust.o intgust.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intgust.f90
```

intgust.f90:24:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intgust.o' failed
```

```
make[1]: [intgust.o] Error 1 (ignored)
```

```
/bin/rm -f lag_fields.o lag_fields.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
lag_fields.f90
```

lag_fields.f90:37:6:

```
use kinds, only: r_kind,i_kind
```

1

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'lag_fields.o' failed
```

```
make[1]: [lag_fields.o] Error 1 (ignored)
```

```
/bin/rm -f intlag.o intlag.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intlag.f90
```

intlag.f90:26:4:

```
use m_obsNode, only: obsNode
```

1

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intlag.o' failed
```

```
make[1]: [intlag.o] Error 1 (ignored)
```

```
/bin/rm -f intpm10.o intpm10.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intpm10.f90
```

intpm10.f90:25:6:

```
use m_obsNode , only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intpm10.o' failed
make[1]: [intpm10.o] Error 1 (ignored)
/bin/rm -f intpm2_5.o intpm2_5.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
intpm2_5.f90
intpm2_5.f90:25:6:
```

```
use m_obsNode, only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intpm2_5.o' failed
make[1]: [intpm2_5.o] Error 1 (ignored)
/bin/rm -f intco.o intco.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c intco.f90
intco.f90:31:4:
```

```
use m_obsNode, only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intco.o' failed
make[1]: [intco.o] Error 1 (ignored)
/bin/rm -f intoz.o intoz.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c intoz.f90
intoz.f90:32:4:
```

```
use m_obsNode, only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
```



```
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intoz.o' failed
make[1]: [intoz.o] Error 1 (ignored)
/bin/rm -f intpcp.o intpcp.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intpcp.f90
intpcp.f90:28:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intpcp.o' failed
make[1]: [intpcp.o] Error 1 (ignored)
/bin/rm -f intdw.o intdw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intdw.f90
intdw.f90:29:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intdw.o' failed
make[1]: [intdw.o] Error 1 (ignored)
/bin/rm -f intsst.o intsst.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intsst.f90
intsst.f90:29:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intsst.o' failed
make[1]: [intsst.o] Error 1 (ignored)
/bin/rm -f intsrw.o intsrw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intsrw.f90
intsrw.f90:28:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intsrw.o' failed
```

```
make[1]: [intsrw.o] Error 1 (ignored)
```

```
/bin/rm -f intspd.o intspd.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intspd.f90
intspd.f90:28:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intspd.o' failed
```

```
make[1]: [intspd.o] Error 1 (ignored)
```

```
/bin/rm -f intrw.o intrw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intrw.f90
intrw.f90:28:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intrw.o' failed
```

```
make[1]: [intrw.o] Error 1 (ignored)
```

```
/bin/rm -f intgps.o intgps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intgps.f90
```

intgps.f90:28:4:

use m_obsNode, only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod` for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'intgps.o' failed

make[1]: [intgps.o] Error 1 (ignored)

/bin/rm -f inttcp.o inttcp.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c inttcp.f90

inttcp.f90:29:4:

use m_obsNode, only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod` for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'inttcp.o' failed

make[1]: [inttcp.o] Error 1 (ignored)

/bin/rm -f intrad.o intrad.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intrad.f90

intrad.f90:32:4:

use kinds, only: i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'intrad.o' failed

make[1]: [intrad.o] Error 1 (ignored)

/bin/rm -f intq.o intq.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intq.f90

intq.f90:31:4:

use m_obsNode, only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod` for reading at (1): No such file or directory

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intq.o' failed
make[1]: [intq.o] Error 1 (ignored)
/bin/rm -f intpw.o intpw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intpw.f90
intpw.f90:29:4:
```

```
use m_obsNode, only: obsNode
```

```
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intpw.o' failed
make[1]: [intpw.o] Error 1 (ignored)
/bin/rm -f intps.o intps.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intps.f90
intps.f90:32:4:
```

```
use m_obsNode, only: obsNode
```

```
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intps.o' failed
make[1]: [intps.o] Error 1 (ignored)
/bin/rm -f intw.o intw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intw.f90
intw.f90:30:4:
```

```
use m_obsNode, only: obsNode
```

```
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intw.o' failed
make[1]: [intw.o] Error 1 (ignored)
/bin/rm -f intt.o intt.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intt.f90
intt.f90:31:4:
```

```
use m_obsNode, only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intt.o' failed
```

```
make[1]: [intt.o] Error 1 (ignored)
```

```
/bin/rm -f intaod.o intaod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intaod.f90
intaod.f90:24:6:
```

```
use m_obsNode , only: obsNode
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intaod.o' failed
```

```
make[1]: [intaod.o] Error 1 (ignored)
```

```
/bin/rm -f intjo.o intjo.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intjo.f90
intjo.f90:197:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'intjo.o' failed
```

```
make[1]: [intjo.o] Error 1 (ignored)
```

```
/bin/rm -f intall.o intall.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intall.f90
intall.f90:175:6:
```

```
use kinds, only: i_kind,r_quad
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intall.o' failed
make[1]: [intall.o] Error 1 (ignored)
/bin/rm -f adjtest_obs.o adjtest_obs.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
adjtest_obs.f90
adjtest_obs.f90:38:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'adjtest_obs.o' failed
make[1]: [adjtest_obs.o] Error 1 (ignored)
/bin/rm -f adjust_cloudobs_mod.o adjust_cloudobs_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
adjust_cloudobs_mod.f90
adjust_cloudobs_mod.f90:52:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'adjust_cloudobs_mod.o' failed
make[1]: [adjust_cloudobs_mod.o] Error 1 (ignored)
/bin/rm -f aircraftobsqc.o aircraftobsqc.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
aircraftobsqc.f90
aircraftobsqc.f90:30:6:
```

```
use kinds, only: i_kind,r_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'aircraftobsqc.o' failed
```

```
make[1]: [aircraftobsqc.o] Error 1 (ignored)
/bin/rm -f fgrid2agrid_mod.o fgrid2agrid_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
fgrid2agrid_mod.f90
fgrid2agrid_mod.f90:56:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'fgrid2agrid_mod.o' failed
```

```
make[1]: [fgrid2agrid_mod.o] Error 1 (ignored)
```

```
/bin/rm -f mod_vtrans.o mod_vtrans.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mod_vtrans.f90
mod_vtrans.f90:65:6:
```

```
    use kinds,only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mod_vtrans.o' failed
```

```
make[1]: [mod_vtrans.o] Error 1 (ignored)
```

```
/bin/rm -f mod_strong.o mod_strong.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mod_strong.f90
mod_strong.f90:69:4:
```

```
    use kinds,only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mod_strong.o' failed
```

```
make[1]: [mod_strong.o] Error 1 (ignored)
```

```
/bin/rm -f balmod.o balmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c balmod.f90
balmod.f90:61:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'balmod.o' failed
```

```
make[1]: [balmod.o] Error 1 (ignored)
```

```
/bin/rm -f berror.o berror.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c berror.f90
```

```
berror.f90:111:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'berror.o' failed
```

```
make[1]: [berror.o] Error 1 (ignored)
```

```
/bin/rm -f plib8.o plib8.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c plib8.f90
```

```
plib8.f90:159:4:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'plib8.o' failed
```

```
make[1]: [plib8.o] Error 1 (ignored)
```

```
/bin/rm -f raflib.o raflib.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c raflib.f90
```

```
raflib.f90:66:4:
```

```
use kinds,only: r_double,r_quad,r_single,i_byte,i_long,i_llong,i_short
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```



```
../dtc/configure.gsi:123: recipe for target 'raflib.o' failed
make[1]: [raflib.o] Error 1 (ignored)
/bin/rm -f anberror.o anberror.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
anberror.f90
anberror.f90:94:6:
```

```
use kinds, only: r_kind,r_single,i_kind,i_long,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'anberror.o' failed
make[1]: [anberror.o] Error 1 (ignored)
/bin/rm -f smooth_polcarf.o smooth_polcarf.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
smooth_polcarf.f90
smooth_polcarf.f90:82:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'smooth_polcarf.o' failed
make[1]: [smooth_polcarf.o] Error 1 (ignored)
/bin/rm -f patch2grid_mod.o patch2grid_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
patch2grid_mod.f90
patch2grid_mod.f90:30:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'patch2grid_mod.o' failed
make[1]: [patch2grid_mod.o] Error 1 (ignored)
/bin/rm -f anbkerror.o anbkerror.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
anbkerror.f90
anbkerror.f90:46:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'anbkerror.o' failed
```

```
make[1]: [anbkerror.o] Error 1 (ignored)
```

```
/bin/rm -f wind_fft.o wind_fft.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
wind_fft.f90
```

```
wind_fft.f90:34:6:
```

```
use kinds, only: i_kind,r_single,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'wind_fft.o' failed
```

```
make[1]: [wind_fft.o] Error 1 (ignored)
```

```
/bin/rm -f aniso_ens_util.o aniso_ens_util.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
aniso_ens_util.f90
```

```
aniso_ens_util.f90:82:6:
```

```
use kinds, only: i_kind,r_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'aniso_ens_util.o' failed
```

```
make[1]: [aniso_ens_util.o] Error 1 (ignored)
```

```
/bin/rm -f sub2fslab_mod.o sub2fslab_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
sub2fslab_mod.f90
```

```
sub2fslab_mod.f90:38:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'sub2fslab_mod.o' failed
```

```
make[1]: [sub2fslab_mod.o] Error 1 (ignored)
```

```
/bin/rm -f anisofilter.o anisofilter.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
anisofilter.f90
```

```
anisofilter.f90:101:6:
```

```
use kinds, only: r_kind,i_kind,r_single,r_double,i_long
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'anisofilter.o' failed
```

```
make[1]: [anisofilter.o] Error 1 (ignored)
```

```
/bin/rm -f compact_diffs.o compact_diffs.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
compact_diffs.f90
```

```
compact_diffs.f90:61:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'compact_diffs.o' failed
```

```
make[1]: [compact_diffs.o] Error 1 (ignored)
```

```
/bin/rm -f anisofilter_glb.o anisofilter_glb.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
anisofilter_glb.f90
```

```
anisofilter_glb.f90:86:6:
```

```
use kinds, only: r_kind,i_kind,r_single,r_double,i_long
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'anisofilter_glb.o' failed
make[1]: [anisofilter_glb.o] Error 1 (ignored)
/bin/rm -f antcorr_application.o antcorr_application.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
antcorr_application.f90
/bin/rm -f antest_maps0.o antest_maps0.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
antest_maps0.f90
antest_maps0.f90:33:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'antest_maps0.o' failed
make[1]: [antest_maps0.o] Error 1 (ignored)
/bin/rm -f antest_maps0_glb.o antest_maps0_glb.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
antest_maps0_glb.f90
antest_maps0_glb.f90:34:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'antest_maps0_glb.o' failed
make[1]: [antest_maps0_glb.o] Error 1 (ignored)
/bin/rm -f atms_spatial_average_mod.o atms_spatial_average_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
atms_spatial_average_mod.f90
atms_spatial_average_mod.f90:15:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'atms_spatial_average_mod.o' failed
make[1]: [atms_spatial_average_mod.o] Error 1 (ignored)
/bin/rm -f ncepgfs_ghg.o ncepgfs_ghg.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ncepgfs_ghg.f90
ncepgfs_ghg.f90:40:7:
```

```
    use kinds,      only : r_kind, i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'ncepgfs_ghg.o' failed
make[1]: [ncepgfs_ghg.o] Error 1 (ignored)
/bin/rm -f cloud_efr_mod.o cloud_efr_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cloud_efr_mod.f90
cloud_efr_mod.f90:31:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'cloud_efr_mod.o' failed
make[1]: [cloud_efr_mod.o] Error 1 (ignored)
/bin/rm -f ncepnems_io.o ncepnems_io.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ncepnems_io.f90
ncepnems_io.f90:117:6:
```

```
    use constants, only: zero,one,fv,r60,r3600
    1
```

```
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'ncepnems_io.o' failed
make[1]: [ncepnems_io.o] Error 1 (ignored)
```

```
/bin/rm -f gfs_stratosphere.o gfs_stratosphere.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gfs_stratosphere.f90
gfs_stratosphere.f90:36:7:
```

```
use kinds, only: r_double,i_kind,i_long,r_single,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gfs_stratosphere.o' failed
```

```
make[1]: [gfs_stratosphere.o] Error 1 (ignored)
```

```
/bin/rm -f native_endianness.o native_endianness.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
native_endianness.f90
native_endianness.f90:35:5:
```

```
use kinds, only: i_byte,i_long
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'native_endianness.o' failed
```

```
make[1]: [native_endianness.o] Error 1 (ignored)
```

```
/bin/rm -f wrf_mass_guess_mod.o wrf_mass_guess_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
wrf_mass_guess_mod.f90
wrf_mass_guess_mod.f90:16:4:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'wrf_mass_guess_mod.o' failed
```

```
make[1]: [wrf_mass_guess_mod.o] Error 1 (ignored)
```

```
/bin/rm -f rapidrefresh_cldsurf_mod.o rapidrefresh_cldsurf_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
rapidrefresh_cldsurf_mod.f90
rapidrefresh_cldsurf_mod.f90:126:6:
```

```
use kinds, only: r_kind, i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'rapidrefresh_cldsurf_mod.o' failed
make[1]: [rapidrefresh_cldsurf_mod.o] Error 1 (ignored)
```

```
/bin/rm -f m_gsiBiases.o m_gsiBiases.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_gsiBiases.f90
m_gsiBiases.f90:41:6:
```

```
use kinds,only : r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'm_gsiBiases.o' failed
make[1]: [m_gsiBiases.o] Error 1 (ignored)
```

```
/bin/rm -f gsi_io.o gsi_io.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c gsi_io.f90
gsi_io.f90:35:6:
```

```
use kinds, only: i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsi_io.o' failed
make[1]: [gsi_io.o] Error 1 (ignored)
```

```
/bin/rm -f class_read_wrf_mass_guess.o class_read_wrf_mass_guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_read_wrf_mass_guess.f90
class_read_wrf_mass_guess.f90:10:8:
```

```
use kinds, only: i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'class_read_wrf_mass_guess.o' failed
make[1]: [class_read_wrf_mass_guess.o] Error 1 (ignored)
/bin/rm -f cplr_read_wrf_mass_guess.o cplr_read_wrf_mass_guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_read_wrf_mass_guess.f90
cplr_read_wrf_mass_guess.f90:2:4:
```

```
use abstract_read_wrf_mass_guess_mod
```

```
1
```

```
Fatal Error: Can't open module file "abstract_read_wrf_mass_guess_mod.mod" for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_read_wrf_mass_guess.o' failed
make[1]: [cplr_read_wrf_mass_guess.o] Error 1 (ignored)
/bin/rm -f class_wrf_binary_interface.o class_wrf_binary_interface.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_wrf_binary_interface.f90
class_wrf_binary_interface.f90:19:8:
```

```
use kinds, only: r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_wrf_binary_interface.o' failed
make[1]: [class_wrf_binary_interface.o] Error 1 (ignored)
/bin/rm -f cplr_wrf_binary_interface.o cplr_wrf_binary_interface.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_wrf_binary_interface.f90
cplr_wrf_binary_interface.f90:2:4:
```

```
use abstract_get_wrf_binary_interface_mod
```

```
1
```

```
Fatal Error: Can't open module file
"abstract_get_wrf_binary_interface_mod.mod" for reading at (1): No such file
or directory
compilation terminated.
```



```
../dtc/configure.gsi:123: recipe for target 'cplr_wrf_binary_interface.o' failed
make[1]: [cplr_wrf_binary_interface.o] Error 1 (ignored)
/bin/rm -f netcdf_mod.o netcdf_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
netcdf_mod.f90
netcdf_mod.f90:52:7:
```

```
use mpeu_util, only: die,perr,warn
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'netcdf_mod.o' failed
make[1]: [netcdf_mod.o] Error 1 (ignored)
/bin/rm -f class_get_wrf_mass_ensperts.o class_get_wrf_mass_ensperts.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_get_wrf_mass_ensperts.f90
class_get_wrf_mass_ensperts.f90:10:8:
```

```
use gsi_bundlemod, only: gsi_bundle
```

```
1
```

```
Fatal Error: Can't open module file â€˜gsi_bundlemod.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_get_wrf_mass_ensperts.o' failed
make[1]: [class_get_wrf_mass_ensperts.o] Error 1 (ignored)
/bin/rm -f cplr_get_wrf_mass_ensperts.o cplr_get_wrf_mass_ensperts.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_get_wrf_mass_ensperts.f90
cplr_get_wrf_mass_ensperts.f90:2:4:
```

```
use abstract_get_wrf_mass_ensperts_mod
```

```
1
```

```
Fatal Error: Can't open module file â€˜abstract_get_wrf_mass_ensperts_mod.modâ€™
for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_get_wrf_mass_ensperts.o' failed
make[1]: [cplr_get_wrf_mass_ensperts.o] Error 1 (ignored)
```

```
/bin/rm -f general_tll2xy_mod.o general_tll2xy_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_tll2xy_mod.f90
general_tll2xy_mod.f90:37:7:
```

```
    use kinds, only: r_kind,i_kind,i_byte
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_tll2xy_mod.o' failed
```

```
make[1]: [general_tll2xy_mod.o] Error 1 (ignored)
```

```
/bin/rm -f class_get_wrf_nmm_ensperts.o class_get_wrf_nmm_ensperts.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_get_wrf_nmm_ensperts.f90
class_get_wrf_nmm_ensperts.f90:10:8:
```

```
    use gsi_bundlemod, only: gsi_bundle
```

```
    1
```

```
Fatal Error: Can't open module file "gsi_bundlemod.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_get_wrf_nmm_ensperts.o' failed
```

```
make[1]: [class_get_wrf_nmm_ensperts.o] Error 1 (ignored)
```

```
/bin/rm -f cplr_get_wrf_nmm_ensperts.o cplr_get_wrf_nmm_ensperts.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_get_wrf_nmm_ensperts.f90
cplr_get_wrf_nmm_ensperts.f90:2:4:
```

```
    use abstract_get_wrf_nmm_ensperts_mod
```

```
    1
```

```
Fatal Error: Can't open module file "abstract_get_wrf_nmm_ensperts_mod.mod"
for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_get_wrf_nmm_ensperts.o' failed
```

```
make[1]: [cplr_get_wrf_nmm_ensperts.o] Error 1 (ignored)
```

```
/bin/rm -f class_get_pseudo_ensperts.o class_get_pseudo_ensperts.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_get_pseudo_enspers.f90
class_get_pseudo_enspers.f90:10:8:
```

```
use gsi_bundlemod, only: gsi_bundle
1
```

```
Fatal Error: Can't open module file "gsi_bundlemod.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_get_pseudo_enspers.o' failed
make[1]: [class_get_pseudo_enspers.o] Error 1 (ignored)
/bin/rm -f cplr_get_pseudo_enspers.o cplr_get_pseudo_enspers.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_get_pseudo_enspers.f90
cplr_get_pseudo_enspers.f90:2:4:
```

```
use abstract_get_pseudo_enspers_mod
1
```

```
Fatal Error: Can't open module file "abstract_get_pseudo_enspers_mod.mod" for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_get_pseudo_enspers.o' failed
make[1]: [cplr_get_pseudo_enspers.o] Error 1 (ignored)
/bin/rm -f gsi_enscouplermod.o gsi_enscouplermod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_enscouplermod.f90
gsi_enscouplermod.f90:12:4:
```

```
use gsi_bundlemod, only: gsi_bundle
1
```

```
Fatal Error: Can't open module file "gsi_bundlemod.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsi_enscouplermod.o' failed
make[1]: [gsi_enscouplermod.o] Error 1 (ignored)
cpp -P -D_REAL8 -DWRP -DLINUX -DPGI -traditional-cpp
hybrid_ensemble_isotropic.F90 > hybrid_ensemble_isotropic.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
hybrid_ensemble_isotropic.fpp
hybrid_ensemble_isotropic.fpp:101:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'hybrid_ensemble_isotropic.o' failed
```

```
make[1]: [hybrid_ensemble_isotropic.o] Error 1 (ignored)
```

```
/bin/rm -f hybrid_ensemble_isotropic.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp lanczos.F90 > lanczos.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c lanczos.fpp
lanczos.fpp:70:4:
```

```
use kinds, only: r_kind,i_kind,r_quad,r_single,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'lanczos.o' failed
```

```
make[1]: [lanczos.o] Error 1 (ignored)
```

```
/bin/rm -f lanczos.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp bicglanczos.F90 >
bicglanczos.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
bicglanczos.fpp
bicglanczos.fpp:68:4:
```

```
use kinds, only : r_kind,i_kind,r_quad,r_single,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'bicglanczos.o' failed
```

```
make[1]: [bicglanczos.o] Error 1 (ignored)
```

```
/bin/rm -f bicglanczos.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp obs_ferrscale.F90 >
obs_ferrscale.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c  
obs_ferrscale.fpp  
obs_ferrscale.fpp:47:4:
```

```
use kinds, only: r_kind, i_kind  
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'obs_ferrscale.o' failed
```

```
make[1]: [obs_ferrscale.o] Error 1 (ignored)
```

```
/bin/rm -f obs_ferrscale.fpp
```

```
/bin/rm -f grtest.o grtest.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c grtest.f90
```

```
grtest.f90:70:4:
```

```
use kinds, only: i_kind, r_kind, r_quad  
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'grtest.o' failed
```

```
make[1]: [grtest.o] Error 1 (ignored)
```

```
/bin/rm -f bicg.o bicg.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c bicg.f90
```

```
bicg.f90:31:4:
```

```
use kinds, only: r_kind,i_kind,r_quad  
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'bicg.o' failed
```

```
make[1]: [bicg.o] Error 1 (ignored)
```

```
/bin/rm -f bkerror.o bkerror.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c bkerror.f90
```

```
bkerror.f90:54:6:
```

```
use kinds, only: r_kind,i_kind  
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'bkerror.o' failed
make[1]: [bkerror.o] Error 1 (ignored)
/bin/rm -f bkgcov.o bkgcov.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c bkgcov.f90
bkgcov.f90:39:6:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'bkgcov.o' failed
make[1]: [bkgcov.o] Error 1 (ignored)
/bin/rm -f bkgvar.o bkgvar.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c bkgvar.f90
bkgvar.f90:66:6:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'bkgvar.o' failed
make[1]: [bkgvar.o] Error 1 (ignored)
/bin/rm -f bkgvar_rewgt.o bkgvar_rewgt.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
bkgvar_rewgt.f90
bkgvar_rewgt.f90:42:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'bkgvar_rewgt.o' failed
make[1]: [bkgvar_rewgt.o] Error 1 (ignored)
/bin/rm -f blacklist.o blacklist.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
blacklist.f90
blacklist.f90:15:6:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'blacklist.o' failed
```

```
make[1]: [blacklist.o] Error 1 (ignored)
```

```
/bin/rm -f blockIO.o
```

```
gcc -DLINUX -Dfunder -DFortranByte=char -DFortranInt=int -DFortranLlong='long
long' -c blockIO.c
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_dtime.F90 > m_dtime.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c m_dtime.fpp
```

```
m_dtime.fpp:41:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_dtime.o' failed
```

```
make[1]: [m_dtime.o] Error 1 (ignored)
```

```
/bin/rm -f m_dtime.fpp
```

```
/bin/rm -f buddycheck_mod.o buddycheck_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
buddycheck_mod.f90
```

```
buddycheck_mod.f90:25:6:
```

```
use kinds, only: r_kind,i_kind,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'buddycheck_mod.o' failed
```

```
make[1]: [buddycheck_mod.o] Error 1 (ignored)
```

```
/bin/rm -f calc_fov_crosstrk.o calc_fov_crosstrk.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
calc_fov_crosstrk.f90
calc_fov_crosstrk.f90:55:5:
```

```
use kinds, only : i_kind, r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'calc_fov_crosstrk.o' failed
make[1]: [calc_fov_crosstrk.o] Error 1 (ignored)
/bin/rm -f calc_fov_conical.o calc_fov_conical.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
calc_fov_conical.f90
calc_fov_conical.f90:43:5:
```

```
use kinds, only : i_kind, r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'calc_fov_conical.o' failed
make[1]: [calc_fov_conical.o] Error 1 (ignored)
/bin/rm -f calctends.o calctends.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
calctends.f90
calctends.f90:49:6:
```

```
use kinds,only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'calctends.o' failed
make[1]: [calctends.o] Error 1 (ignored)
/bin/rm -f calctends_ad.o calctends_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
calctends_ad.f90
calctends_ad.f90:55:6:
```

```
use kinds,only: r_kind,i_kind
```


1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'calctends_ad.o' failed`

`make[1]: [calctends_ad.o] Error 1 (ignored)`

`/bin/rm -f calctends_tl.o calctends_tl.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`calctends_tl.f90`

`calctends_tl.f90:55:6:`

`use kinds,only: r_kind,i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'calctends_tl.o' failed`

`make[1]: [calctends_tl.o] Error 1 (ignored)`

`/bin/rm -f calctends_no_ad.o calctends_no_ad.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`calctends_no_ad.f90`

`calctends_no_ad.f90:63:6:`

`use kinds,only: r_kind,i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'calctends_no_ad.o' failed`

`make[1]: [calctends_no_ad.o] Error 1 (ignored)`

`/bin/rm -f calctends_no_tl.o calctends_no_tl.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`calctends_no_tl.f90`

`calctends_no_tl.f90:56:6:`

`use kinds,only: r_kind,i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'calctends_no_tl.o' failed`

`make[1]: [calctends_no_tl.o] Error 1 (ignored)`

```
/bin/rm -f class_gfs_ensmod.o class_gfs_ensmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_gfs_ensmod.f90
class_gfs_ensmod.f90:11:8:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_gfs_ensmod.o' failed
```

```
make[1]: [class_gfs_ensmod.o] Error 1 (ignored)
```

```
/bin/rm -f class_read_wrf_mass_files.o class_read_wrf_mass_files.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_read_wrf_mass_files.f90
class_read_wrf_mass_files.f90:9:8:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_read_wrf_mass_files.o' failed
```

```
make[1]: [class_read_wrf_mass_files.o] Error 1 (ignored)
```

```
/bin/rm -f class_read_wrf_nmm_files.o class_read_wrf_nmm_files.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_read_wrf_nmm_files.f90
class_read_wrf_nmm_files.f90:10:8:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_read_wrf_nmm_files.o' failed
```

```
make[1]: [class_read_wrf_nmm_files.o] Error 1 (ignored)
```

```
/bin/rm -f class_read_wrf_nmm_guess.o class_read_wrf_nmm_guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_read_wrf_nmm_guess.f90
class_read_wrf_nmm_guess.f90:11:8:
```

```
    use kinds, only: i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_read_wrf_nmm_guess.o' failed
make[1]: [class_read_wrf_nmm_guess.o] Error 1 (ignored)
/bin/rm -f class_regional_io.o class_regional_io.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_regional_io.f90
class_regional_io.f90:20:8:
```

```
    use kinds, only: i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_regional_io.o' failed
make[1]: [class_regional_io.o] Error 1 (ignored)
/bin/rm -f class_wrf_netcdf_interface.o class_wrf_netcdf_interface.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_wrf_netcdf_interface.f90
class_wrf_netcdf_interface.f90:38:8:
```

```
    use kinds, only: r_single,i_kind,r_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'class_wrf_netcdf_interface.o' failed
make[1]: [class_wrf_netcdf_interface.o] Error 1 (ignored)
/bin/rm -f class_wrwrfmassa.o class_wrwrfmassa.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
class_wrwrfmassa.f90
class_wrwrfmassa.f90:10:8:
```

```
    use kinds, only: i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'class_wrwrfmassa.o' failed`

`make[1]: [class_wrwrfmassa.o] Error 1 (ignored)`

`/bin/rm -f class_wrwrfmhma.o class_wrwrfmhma.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`class_wrwrfmhma.f90`

`class_wrwrfmhma.f90:10:8:`

`use kinds, only: i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'class_wrwrfmhma.o' failed`

`make[1]: [class_wrwrfmhma.o] Error 1 (ignored)`

`/bin/rm -f cmaq_routines.o cmaq_routines.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`cmaq_routines.f90`

`cmaq_routines.f90:30:6:`

`use kinds, only: i_kind,r_kind,r_single`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'cmaq_routines.o' failed`

`make[1]: [cmaq_routines.o] Error 1 (ignored)`

`/bin/rm -f co_mop_ak.o co_mop_ak.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c`

`co_mop_ak.f90`

`co_mop_ak.f90:31:6:`

`use kinds, only: r_kind,i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'co_mop_ak.o' failed`

`make[1]: [co_mop_ak.o] Error 1 (ignored)`

```
/bin/rm -f coininfo.o coininfo.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c coininfo.f90
coininfo.f90:45:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'coininfo.o' failed
```

```
make[1]: [coininfo.o] Error 1 (ignored)
```

```
/bin/rm -f combine_radobs.o combine_radobs.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
combine_radobs.f90
combine_radobs.f90:42:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'combine_radobs.o' failed
```

```
make[1]: [combine_radobs.o] Error 1 (ignored)
```

```
/bin/rm -f compute_derived.o compute_derived.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
compute_derived.f90
compute_derived.f90:89:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'compute_derived.o' failed
```

```
make[1]: [compute_derived.o] Error 1 (ignored)
```

```
/bin/rm -f compute_fact10.o compute_fact10.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
compute_fact10.f90
compute_fact10.f90:34:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'compute_fact10.o' failed
```

```
make[1]: [compute_fact10.o] Error 1 (ignored)
```

```
/bin/rm -f compute_qvar3d.o compute_qvar3d.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
compute_qvar3d.f90
```

```
compute_qvar3d.f90:38:6:
```

```
    use kinds, only: r_kind,i_kind,r_single
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'compute_qvar3d.o' failed
```

```
make[1]: [compute_qvar3d.o] Error 1 (ignored)
```

```
/bin/rm -f cwhydromod.o cwhydromod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
cwhydromod.f90
```

```
cwhydromod.f90:28:4:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cwhydromod.o' failed
```

```
make[1]: [cwhydromod.o] Error 1 (ignored)
```

```
/bin/rm -f control2model.o control2model.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
control2model.f90
```

```
control2model.f90:45:4:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'control2model.o' failed
make[1]: [control2model.o] Error 1 (ignored)
/bin/rm -f control2state.o control2state.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
control2state.f90
control2state.f90:56:4:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'control2state.o' failed
make[1]: [control2state.o] Error 1 (ignored)
/bin/rm -f control2model_ad.o control2model_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
control2model_ad.f90
control2model_ad.f90:36:4:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'control2model_ad.o' failed
make[1]: [control2model_ad.o] Error 1 (ignored)
/bin/rm -f control2state_ad.o control2state_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
control2state_ad.f90
control2state_ad.f90:50:4:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'control2state_ad.o' failed
make[1]: [control2state_ad.o] Error 1 (ignored)
/bin/rm -f convb_ps.o convb_ps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convb_ps.f90
convb_ps.f90:26:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convb_ps.o' failed
```

```
make[1]: [convb_ps.o] Error 1 (ignored)
```

```
/bin/rm -f convb_q.o convb_q.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c convb_q.f90
```

```
convb_q.f90:28:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convb_q.o' failed
```

```
make[1]: [convb_q.o] Error 1 (ignored)
```

```
/bin/rm -f convb_t.o convb_t.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c convb_t.f90
```

```
convb_t.f90:30:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convb_t.o' failed
```

```
make[1]: [convb_t.o] Error 1 (ignored)
```

```
/bin/rm -f convb_uv.o convb_uv.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```



```
convb_uv.f90
convb_uv.f90:29:4:
```

```
  use kinds, only:r_kind,i_kind,r_single
```

```
  1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convb_uv.o' failed
```

```
make[1]: [convb_uv.o] Error 1 (ignored)
```

```
/bin/rm -f converr.o converr.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c converr.f90
```

```
converr.f90:28:4:
```

```
  use kinds, only:r_kind,i_kind,r_single
```

```
  1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'converr.o' failed
```

```
make[1]: [converr.o] Error 1 (ignored)
```

```
/bin/rm -f converr_ps.o converr_ps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
converr_ps.f90
```

```
converr_ps.f90:30:4:
```

```
  use kinds, only:r_kind,i_kind,r_single
```

```
  1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'converr_ps.o' failed
```

```
make[1]: [converr_ps.o] Error 1 (ignored)
```

```
/bin/rm -f converr_pw.o converr_pw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
converr_pw.f90
```

```
converr_pw.f90:29:4:
```

```
  use kinds, only:r_kind,i_kind,r_single
```

```
  1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'convrr_pw.o' failed
make[1]: [convrr_pw.o] Error 1 (ignored)
/bin/rm -f convrr_q.o convrr_q.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convrr_q.f90
convrr_q.f90:31:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'convrr_q.o' failed
make[1]: [convrr_q.o] Error 1 (ignored)
/bin/rm -f convrr_t.o convrr_t.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convrr_t.f90
convrr_t.f90:30:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'convrr_t.o' failed
make[1]: [convrr_t.o] Error 1 (ignored)
/bin/rm -f convrr_uv.o convrr_uv.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convrr_uv.f90
convrr_uv.f90:28:4:
```

```
use kinds, only:r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'convrr_uv.o' failed
make[1]: [convrr_uv.o] Error 1 (ignored)
/bin/rm -f nstio_module.o nstio_module.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
nstdio_module.f90
/bin/rm -f ncepgfs_io.o ncepgfs_io.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ncepgfs_io.f90
ncepgfs_io.f90:55:6:
```

```
    use ncepnems_io, only: tran_gfssfc
```

```
    1
```

```
Fatal Error: Can't open module file '~ncepnems_io.mod'™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ncepgfs_io.o' failed
```

```
make[1]: [ncepgfs_io.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp satthin.F90 > satthin.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c satthin.fpp
satthin.fpp:110:6:
```

```
    use kinds, only: r_kind,i_kind,r_quad,r_single
```

```
    1
```

```
Fatal Error: File '~kinds.mod'™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'satthin.o' failed
```

```
make[1]: [satthin.o] Error 1 (ignored)
```

```
/bin/rm -f satthin.fpp
```

```
/bin/rm -f convthin.o convthin.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convthin.f90
convthin.f90:27:6:
```

```
    use kinds, only: r_kind,i_kind,r_quad
```

```
    1
```

```
Fatal Error: File '~kinds.mod'™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convthin.o' failed
make[1]: [convthin.o] Error 1 (ignored)
/bin/rm -f convthin_time.o convthin_time.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
convthin_time.f90
convthin_time.f90:23:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File '~kinds.mod' opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'convthin_time.o' failed
make[1]: [convthin_time.o] Error 1 (ignored)
/bin/rm -f cplr_gfs_ensmod.o cplr_gfs_ensmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_gfs_ensmod.f90
cplr_gfs_ensmod.f90:2:4:
```

```
    use abstract_get_gfs_ensmod_mod
```

```
    1
```

```
Fatal Error: Can't open module file '~abstract_get_gfs_ensmod_mod.mod' for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_gfs_ensmod.o' failed
make[1]: [cplr_gfs_ensmod.o] Error 1 (ignored)
/bin/rm -f cplr_gfs_nstmod.o cplr_gfs_nstmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_gfs_nstmod.f90
cplr_gfs_nstmod.f90:20:9:
```

```
    use mpimod,          only: mype
```

```
    1
```

```
Fatal Error: Can't open module file '~mpimod.mod' for reading at (1): No such
file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_gfs_nstmod.o' failed
make[1]: [cplr_gfs_nstmod.o] Error 1 (ignored)
/bin/rm -f cplr_read_wrf_mass_files.o cplr_read_wrf_mass_files.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_read_wrf_mass_files.f90
cplr_read_wrf_mass_files.f90:2:4:
```

```
use abstract_read_wrf_mass_files_mod
1
```

```
Fatal Error: Can't open module file "abstract_read_wrf_mass_files_mod.mod" for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_read_wrf_mass_files.o' failed
make[1]: [cplr_read_wrf_mass_files.o] Error 1 (ignored)
```

```
/bin/rm -f cplr_read_wrf_nmm_files.o cplr_read_wrf_nmm_files.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_read_wrf_nmm_files.f90
cplr_read_wrf_nmm_files.f90:2:4:
```

```
use abstract_read_wrf_nmm_files_mod
1
```

```
Fatal Error: Can't open module file "abstract_read_wrf_nmm_files_mod.mod" for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_read_wrf_nmm_files.o' failed
make[1]: [cplr_read_wrf_nmm_files.o] Error 1 (ignored)
```

```
/bin/rm -f wrf_params_mod.o wrf_params_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
wrf_params_mod.f90
```

```
/bin/rm -f gsi_nemsio_mod.o gsi_nemsio_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsi_nemsio_mod.f90
gsi_nemsio_mod.f90:36:6:
```

```
use kinds, only: r_kind,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
```

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'gsi_nemsio_mod.o' failed
make[1]: [gsi_nemsio_mod.o] Error 1 (ignored)
/bin/rm -f cplr_read_wrf_nmm_guess.o cplr_read_wrf_nmm_guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_read_wrf_nmm_guess.f90
cplr_read_wrf_nmm_guess.f90:2:4:
```

```
use abstract_read_wrf_nmm_guess_mod
1
```

```
Fatal Error: Can't open module file â€˜abstract_read_wrf_nmm_guess_mod.modâ€™ for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_read_wrf_nmm_guess.o' failed
make[1]: [cplr_read_wrf_nmm_guess.o] Error 1 (ignored)
/bin/rm -f cplr_wrwrfmassa.o cplr_wrwrfmassa.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_wrwrfmassa.f90
cplr_wrwrfmassa.f90:2:4:
```

```
use abstract_wrwrfmassa_mod
1
```

```
Fatal Error: Can't open module file â€˜abstract_wrwrfmassa_mod.modâ€™ for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_wrwrfmassa.o' failed
make[1]: [cplr_wrwrfmassa.o] Error 1 (ignored)
/bin/rm -f cplr_wrwrfnmma.o cplr_wrwrfnmma.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_wrwrfnmma.f90
cplr_wrwrfnmma.f90:2:4:
```

```
use abstract_wrwrfnmma_mod
1
```

```
Fatal Error: Can't open module file â€˜abstract_wrwrfnmma_mod.modâ€™ for reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_wrwrfnmma.o' failed
```

```
make[1]: [cplr_wrwrfnmma.o] Error 1 (ignored)
/bin/rm -f cplr_wrf_netcdf_interface.o cplr_wrf_netcdf_interface.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_wrf_netcdf_interface.f90
cplr_wrf_netcdf_interface.f90:2:4:
```

```
use abstract_convert_netcdf_mod
```

```
1
```

```
Fatal Error: Can't open module file â€˜abstract_convert_netcdf_mod.modâ€™ for
reading at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_wrf_netcdf_interface.o' failed
```

```
make[1]: [cplr_wrf_netcdf_interface.o] Error 1 (ignored)
```

```
/bin/rm -f cplr_regional_io.o cplr_regional_io.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cplr_regional_io.f90
cplr_regional_io.f90:32:4:
```

```
use abstract_regional_io_mod
```

```
1
```

```
Fatal Error: Can't open module file â€˜abstract_regional_io_mod.modâ€™ for reading
at (1): No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'cplr_regional_io.o' failed
```

```
make[1]: [cplr_regional_io.o] Error 1 (ignored)
```

```
/bin/rm -f set_crtm_cloudmod.o set_crtm_cloudmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
set_crtm_cloudmod.f90
set_crtm_cloudmod.f90:22:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File â€˜kinds.modâ€™ opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'set_crtm_cloudmod.o' failed
```

```
make[1]: [set_crtm_cloudmod.o] Error 1 (ignored)
```

```
/bin/rm -f set_crtm_aerosolmod.o set_crtm_aerosolmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```

-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
set_crtm_aerosolmod.f90
set_crtm_aerosolmod.f90:30:6:

    use kinds, only: i_kind,r_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'set_crtm_aerosolmod.o' failed
make[1]: [set_crtm_aerosolmod.o] Error 1 (ignored)
/bin/rm -f crt_m_interface.o crt_m_interface.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
crt_m_interface.f90
crt_m_interface.f90:51:4:

    use kinds,only: r_kind,i_kind,r_single
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'crt_m_interface.o' failed
make[1]: [crt_m_interface.o] Error 1 (ignored)
/bin/rm -f cvsection.o cvsection.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
cvsection.f90
cvsection.f90:31:4:

    use kinds, only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'cvsection.o' failed
make[1]: [cvsection.o] Error 1 (ignored)
/bin/rm -f deter_sfc_mod.o deter_sfc_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
deter_sfc_mod.f90

```


deter_sfc_mod.f90:31:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'deter_sfc_mod.o' failed

make[1]: [deter_sfc_mod.o] Error 1 (ignored)

/bin/rm -f dtast.o dtast.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c dtast.f90

dtast.f90:38:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'dtast.o' failed

make[1]: [dtast.o] Error 1 (ignored)

/bin/rm -f en_perts_io.o en_perts_io.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

en_perts_io.f90

en_perts_io.f90:23:6:

use gridmod, only: regional

1

Fatal Error: Can't open module file `~gridmod.mod` for reading at (1): No such
file or directory

compilation terminated.

../dtc/configure.gsi:123: recipe for target 'en_perts_io.o' failed

make[1]: [en_perts_io.o] Error 1 (ignored)

/bin/rm -f enorm_state.o enorm_state.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

enorm_state.f90

enorm_state.f90:32:4:

use kinds, only: r_kind,i_kind,r_quad

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'enorm_state.o' failed
make[1]: [enorm_state.o] Error 1 (ignored)
/bin/rm -f ensctl2model.o ensctl2model.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ensctl2model.f90
ensctl2model.f90:24:4:
```

```
use constants, only: zero,max_varname_length
1
```

```
Fatal Error: Can't open module file '~constants.mod' for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ensctl2model.o' failed
make[1]: [ensctl2model.o] Error 1 (ignored)
/bin/rm -f ensctl2state.o ensctl2state.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ensctl2state.f90
ensctl2state.f90:26:4:
```

```
use constants, only: zero,max_varname_length
1
```

```
Fatal Error: Can't open module file '~constants.mod' for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ensctl2state.o' failed
make[1]: [ensctl2state.o] Error 1 (ignored)
/bin/rm -f ensctl2model_ad.o ensctl2model_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ensctl2model_ad.f90
ensctl2model_ad.f90:23:4:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File '~kinds.mod' opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ensctl2model_ad.o' failed
make[1]: [ensctl2model_ad.o] Error 1 (ignored)
```

```
/bin/rm -f ensctl2state_ad.o ensctl2state_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ensctl2state_ad.f90
ensctl2state_ad.f90:24:4:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ensctl2state_ad.o' failed
```

```
make[1]: [ensctl2state_ad.o] Error 1 (ignored)
```

```
/bin/rm -f ens_spread_mod.o ens_spread_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
ens_spread_mod.f90
ens_spread_mod.f90:30:6:
```

```
use kinds, only: r_single,r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ens_spread_mod.o' failed
```

```
make[1]: [ens_spread_mod.o] Error 1 (ignored)
```

```
/bin/rm -f xhat_vordivmod.o xhat_vordivmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
xhat_vordivmod.f90
xhat_vordivmod.f90:27:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'xhat_vordivmod.o' failed
```

```
make[1]: [xhat_vordivmod.o] Error 1 (ignored)
```

```
/bin/rm -f evaljgrad.o evaljgrad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
evaljgrad.f90
evaljgrad.f90:47:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'evaljgrad.o' failed
make[1]: [evaljgrad.o] Error 1 (ignored)
```

```
/bin/rm -f evaljo.o evaljo.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c evaljo.f90
evaljo.f90:27:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'evaljo.o' failed
make[1]: [evaljo.o] Error 1 (ignored)
```

```
/bin/rm -f evalqlim.o evalqlim.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
evalqlim.f90
evalqlim.f90:32:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'evalqlim.o' failed
make[1]: [evalqlim.o] Error 1 (ignored)
```

```
/bin/rm -f fill_mass_grid2.o fill_mass_grid2.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
fill_mass_grid2.f90
fill_mass_grid2.f90:30:6:
```

```
use kinds, only: r_single,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'fill_mass_grid2.o' failed
make[1]: [fill_mass_grid2.o] Error 1 (ignored)
/bin/rm -f fill_nmm_grid2.o fill_nmm_grid2.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
fill_nmm_grid2.f90
fill_nmm_grid2.f90:64:6:
```

```
use kinds, only: r_single,r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'fill_nmm_grid2.o' failed
make[1]: [fill_nmm_grid2.o] Error 1 (ignored)
/bin/rm -f fpvsx_ad.o fpvsx_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
fpvsx_ad.f90
fpvsx_ad.f90:37:6:
```

```
use kinds, only: r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'fpvsx_ad.o' failed
make[1]: [fpvsx_ad.o] Error 1 (ignored)
/bin/rm -f general_read_gfsatm.o general_read_gfsatm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_read_gfsatm.f90
general_read_gfsatm.f90:45:7:
```

```
use kinds, only: r_kind,r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'general_read_gfsatm.o' failed
make[1]: [general_read_gfsatm.o] Error 1 (ignored)
/bin/rm -f general_read_nmmb.o general_read_nmmb.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_read_nmmb.f90
general_read_nmmb.f90:30:6:
```

```
use kinds, only: r_kind,i_kind,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_read_nmmb.o' failed
```

```
make[1]: [general_read_nmmb.o] Error 1 (ignored)
```

```
/bin/rm -f general_spectral_transforms.o general_spectral_transforms.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_spectral_transforms.f90
general_spectral_transforms.f90:28:6:
```

```
use general_specmod, only: spec_vars
```

```
1
```

```
Fatal Error: Can't open module file "general_specmod.mod" for reading at (1):
No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_spectral_transforms.o' failed
```

```
make[1]: [general_spectral_transforms.o] Error 1 (ignored)
```

```
/bin/rm -f general_transform.o general_transform.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_transform.f90
general_transform.f90:63:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_transform.o' failed
```

```
make[1]: [general_transform.o] Error 1 (ignored)
```

```
/bin/rm -f general_write_gfsatm.o general_write_gfsatm.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
general_write_gfsatm.f90
general_write_gfsatm.f90:32:8:
```

```
    use kinds, only: r_kind,i_kind,r_single
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'general_write_gfsatm.o' failed
```

```
make[1]: [general_write_gfsatm.o] Error 1 (ignored)
```

```
/bin/rm -f gengrid_vars.o gengrid_vars.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
gengrid_vars.f90
```

```
gengrid_vars.f90:30:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gengrid_vars.o' failed
```

```
make[1]: [gengrid_vars.o] Error 1 (ignored)
```

```
/bin/rm -f genqsat.o genqsat.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c genqsat.f90
```

```
genqsat.f90:53:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'genqsat.o' failed
```

```
make[1]: [genqsat.o] Error 1 (ignored)
```

```
/bin/rm -f genstats_gps.o genstats_gps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
genstats_gps.f90
```

```
genstats_gps.f90:38:6:
```

```
    use m_gpsNode, only: gps_ob_type => gpsNode
```

1

Fatal Error: Can't open module file `~m_gpsnode.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'genstats_gps.o' failed

make[1]: [genstats_gps.o] Error 1 (ignored)

/bin/rm -f gesinfo.o gesinfo.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c gesinfo.f90

gesinfo.f90:69:6:

use kinds, only: i_kind,r_kind,r_single

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'gesinfo.o' failed

make[1]: [gesinfo.o] Error 1 (ignored)

/bin/rm -f get_derivatives.o get_derivatives.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

get_derivatives.f90

get_derivatives.f90:54:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'get_derivatives.o' failed

make[1]: [get_derivatives.o] Error 1 (ignored)

/bin/rm -f get_derivatives2.o get_derivatives2.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

get_derivatives2.f90

get_derivatives2.f90:63:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'get_derivatives2.o' failed


```
make[1]: [get_derivatives2.o] Error 1 (ignored)
/bin/rm -f get_gefs_enspers_dualres.o get_gefs_enspers_dualres.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
get_gefs_enspers_dualres.f90
get_gefs_enspers_dualres.f90:48:6:
```

```
    use gridmod, only: idsl5,regional
```

```
    1
```

```
Fatal Error: Can't open module file "gridmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'get_gefs_enspers_dualres.o' failed
```

```
make[1]: [get_gefs_enspers_dualres.o] Error 1 (ignored)
```

```
/bin/rm -f get_gefs_for_regional.o get_gefs_for_regional.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
get_gefs_for_regional.f90
get_gefs_for_regional.f90:36:6:
```

```
    use gridmod, only: idsl5,regional,use_gfs_nemsio
```

```
    1
```

```
Fatal Error: Can't open module file "gridmod.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'get_gefs_for_regional.o' failed
```

```
make[1]: [get_gefs_for_regional.o] Error 1 (ignored)
```

```
/bin/rm -f get_nmmb_enspers.o get_nmmb_enspers.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
get_nmmb_enspers.f90
get_nmmb_enspers.f90:24:7:
```

```
    use kinds, only: r_kind,i_kind,r_single
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'get_nmmb_enspers.o' failed
```

```
make[1]: [get_nmmb_enspers.o] Error 1 (ignored)
```

```
/bin/rm -f get_semimp_mats.o get_semimp_mats.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```

-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
get_semimp_mats.f90
get_semimp_mats.f90:35:6:

    use kinds,only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'get_semimp_mats.o' failed
make[1]: [get_semimp_mats.o] Error 1 (ignored)
/bin/rm -f getcount_buf.o getcount_buf.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
getcount_buf.f90
getcount_buf.f90:21:4:

    use kinds, only: i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'getcount_buf.o' failed
make[1]: [getcount_buf.o] Error 1 (ignored)
/bin/rm -f getprs.o getprs.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c getprs.f90
getprs.f90:32:6:

    use kinds,only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'getprs.o' failed
make[1]: [getprs.o] Error 1 (ignored)
/bin/rm -f getsiga.o getsiga.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c getsiga.f90
getsiga.f90:25:4:

```

```
use kinds, only: i_kind, r_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'getsig.o' failed
make[1]: [getsig.o] Error 1 (ignored)
/bin/rm -f getuv.o getuv.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c getuv.f90
getuv.f90:35:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'getuv.o' failed
make[1]: [getuv.o] Error 1 (ignored)
/bin/rm -f getvvel.o getvvel.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c getvvel.f90
getvvel.f90:31:6:
```

```
use kinds,only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'getvvel.o' failed
make[1]: [getvvel.o] Error 1 (ignored)
/bin/rm -f prad_bias.o prad_bias.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
prad_bias.f90
prad_bias.f90:33:6:
```

```
use m_obsNode , only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'prad_bias.o' failed
make[1]: [prad_bias.o] Error 1 (ignored)
/bin/rm -f mp_compact_diffs_mod1.o mp_compact_diffs_mod1.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mp_compact_diffs_mod1.f90
mp_compact_diffs_mod1.f90:42:6:
```

```
use kinds,only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mp_compact_diffs_mod1.o' failed
```

```
make[1]: [mp_compact_diffs_mod1.o] Error 1 (ignored)
```

```
/bin/rm -f turblmod.o turblmod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
turblmod.f90
turblmod.f90:25:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'turblmod.o' failed
```

```
make[1]: [turblmod.o] Error 1 (ignored)
```

```
/bin/rm -f zrnmi_mod.o zrnmi_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
zrnmi_mod.f90
zrnmi_mod.f90:89:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'zrnmi_mod.o' failed
```

```
make[1]: [zrnmi_mod.o] Error 1 (ignored)
```

```
/bin/rm -f strong_fast_global_mod.o strong_fast_global_mod.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
strong_fast_global_mod.f90
strong_fast_global_mod.f90:46:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'strong_fast_global_mod.o' failed
```

```
make[1]: [strong_fast_global_mod.o] Error 1 (ignored)
```

```
/bin/rm -f ozinfo.o ozinfo.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c ozinfo.f90
ozinfo.f90:44:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ozinfo.o' failed
```

```
make[1]: [ozinfo.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp m_extOzone.F90 >
```

```
m_extOzone.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_extOzone.fpp
m_extOzone.fpp:58:6:
```

```
use kinds, only: i_kind,r_kind,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_extOzone.o' failed
```

```
make[1]: [m_extOzone.o] Error 1 (ignored)
```

```
/bin/rm -f m_extOzone.fpp
```

```
/bin/rm -f insitu_info.o insitu_info.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
insitu_info.f90
```

insitu_info.f90:24:6:

use kinds, only: i_kind,r_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'insitu_info.o' failed

make[1]: [insitu_info.o] Error 1 (ignored)

cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp read_obs.F90 >

read_obs.fpp

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

read_obs.fpp

read_obs.fpp:77:6:

use kinds, only: i_kind,i_llong

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

makefile_DTC:102: recipe for target 'read_obs.o' failed

make[1]: [read_obs.o] Error 1 (ignored)

/bin/rm -f read_obs.fpp

cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp observer.F90 >

observer.fpp

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

observer.fpp

observer.fpp:58:6:

use kinds, only: i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

makefile_DTC:102: recipe for target 'observer.o' failed

make[1]: [observer.o] Error 1 (ignored)

/bin/rm -f observer.fpp

/bin/rm -f stpcldch.o stpcldch.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

stpcldch.f90

stpcldch.f90:23:4:

```
use m_obsNode , only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'stpclcdch.o' failed
make[1]: [stpclcdch.o] Error 1 (ignored)
/bin/rm -f stplcbas.o stplcbas.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
stplcbas.f90
stplcbas.f90:23:4:
```

```
use m_obsNode , only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'stplcbas.o' failed
make[1]: [stplcbas.o] Error 1 (ignored)
/bin/rm -f stptcamt.o stptcamt.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
stptcamt.f90
stptcamt.f90:23:4:
```

```
use m_obsNode , only: obsNode
1
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'stptcamt.o' failed
make[1]: [stptcamt.o] Error 1 (ignored)
/bin/rm -f stphowv.o stphowv.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stphowv.f90
stphowv.f90:24:4:
```

```
use m_obsNode , only: obsNode
```

1

Fatal Error: Can't open module file `~m_obsnode.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stphowv.o' failed

make[1]: [stphowv.o] Error 1 (ignored)

/bin/rm -f stppmsl.o stppmsl.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stppmsl.f90

stppmsl.f90:24:4:

use m_obsNode , only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stppmsl.o' failed

make[1]: [stppmsl.o] Error 1 (ignored)

/bin/rm -f stpmitm.o stpmitm.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpmitm.f90

stpmitm.f90:24:4:

use m_obsNode , only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stpmitm.o' failed

make[1]: [stpmitm.o] Error 1 (ignored)

/bin/rm -f stpmxtn.o stpmxtn.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpmxtn.f90

stpmxtn.f90:24:4:

use m_obsNode , only: obsNode

1

Fatal Error: Can't open module file `~m_obsnode.mod`™ for reading at (1): No


```
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'stpmxtm.o' failed
make[1]: [stpmxtm.o] Error 1 (ignored)
/bin/rm -f stptd2m.o stptd2m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stptd2m.f90
```

stptd2m.f90:23:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stptd2m.o' failed
make[1]: [stptd2m.o] Error 1 (ignored)
```

```
/bin/rm -f stpwspd10m.o stpwspd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stpwspd10m.f90
```

stpwspd10m.f90:23:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpwspd10m.o' failed
make[1]: [stpwspd10m.o] Error 1 (ignored)
```

```
/bin/rm -f stpuwnd10m.o stpuwnd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stpuwnd10m.f90
```

stpuwnd10m.f90:23:4:

```
use m_obsNode , only: obsNode
```

1

```
Fatal Error: Can't open module file â€˜m_obsnode.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpwnd10m.o' failed
make[1]: [stpwnd10m.o] Error 1 (ignored)
/bin/rm -f stpvwnd10m.o stpvwnd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
stpwnd10m.f90
stpwnd10m.f90:23:4:
```

```
use m_obsNode      , only: obsNode
```

```
1
```

```
Fatal Error: Can't open module file "m_obsnode.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpwnd10m.o' failed
make[1]: [stpwnd10m.o] Error 1 (ignored)
/bin/rm -f stppblh.o stppblh.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stppblh.f90
stppblh.f90:57:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stppblh.o' failed
make[1]: [stppblh.o] Error 1 (ignored)
/bin/rm -f stpvis.o stpvis.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpvis.f90
stpvis.f90:57:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpvis.o' failed
make[1]: [stpvis.o] Error 1 (ignored)
/bin/rm -f stpgust.o stpgust.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpgust.f90
```

stpgust.f90:57:6:

```
use kinds, only: r_kind,i_kind,r_quad
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stpgust.o' failed

make[1]: [stpgust.o] Error 1 (ignored)

```
/bin/rm -f stpaod.o stpaod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpaod.f90
```

stpaod.f90:23:6:

```
use m_obsNode , only: obsNode
```

1

Fatal Error: Can't open module file `~m_obsnode.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stpaod.o' failed

make[1]: [stpaod.o] Error 1 (ignored)

```
/bin/rm -f stppm10.o stppm10.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stppm10.f90
```

stppm10.f90:22:6:

```
use m_obsNode , only: obsNode
```

1

Fatal Error: Can't open module file `~m_obsnode.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stppm10.o' failed

make[1]: [stppm10.o] Error 1 (ignored)

```
/bin/rm -f stppm2_5.o stppm2_5.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stppm2_5.f90
```

stppm2_5.f90:22:6:

```
use m_obsNode , only: obsNode
```

1

Fatal Error: Can't open module file `~m_obsnode.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stppm2_5.o' failed

make[1]: [stppm2_5.o] Error 1 (ignored)

```
/bin/rm -f stpco.o stpco.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpco.f90
```

stpco.f90:62:6:

```
use kinds, only: r_kind,r_quad,i_kind
```

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stpco.o' failed

make[1]: [stpco.o] Error 1 (ignored)

```
/bin/rm -f stpoz.o stpoz.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpoz.f90
```

stpoz.f90:80:6:

```
use kinds, only: r_kind,r_quad,i_kind
```

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stpoz.o' failed

make[1]: [stpoz.o] Error 1 (ignored)

```
/bin/rm -f stppcp.o stppcp.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stppcp.f90
```

stppcp.f90:94:6:

```
use kinds, only: r_kind,i_kind,r_quad
```

1

Fatal Error: File `~kinds.mod`™ opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stppcp.o' failed

```
make[1]: [stppcp.o] Error 1 (ignored)
/bin/rm -f stpdw.o stpdw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpdw.f90
stpdw.f90:77:6:
```

```
    use kinds, only: r_kind,i_kind,r_quad
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpdw.o' failed
```

```
make[1]: [stpdw.o] Error 1 (ignored)
```

```
/bin/rm -f stptcp.o stptcp.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stptcp.f90
stptcp.f90:63:6:
```

```
    use kinds, only: r_kind,i_kind,r_quad
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stptcp.o' failed
```

```
make[1]: [stptcp.o] Error 1 (ignored)
```

```
/bin/rm -f stpsst.o stpsst.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpsst.f90
stpsst.f90:76:6:
```

```
    use kinds, only: r_kind,i_kind,r_quad
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpsst.o' failed
```

```
make[1]: [stpsst.o] Error 1 (ignored)
```

```
/bin/rm -f stpsrw.o stpsrw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpsrw.f90
stpsrw.f90:80:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpsrw.o' failed
```

```
make[1]: [stpsrw.o] Error 1 (ignored)
```

```
/bin/rm -f stpspd.o stpspd.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpspd.f90
```

```
stpspd.f90:81:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpspd.o' failed
```

```
make[1]: [stpspd.o] Error 1 (ignored)
```

```
/bin/rm -f stprw.o stprw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stprw.f90
```

```
stprw.f90:77:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stprw.o' failed
```

```
make[1]: [stprw.o] Error 1 (ignored)
```

```
/bin/rm -f stpgps.o stpgps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c stpgps.f90
```

```
stpgps.f90:90:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File ~kinds.mod™ opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpgps.o' failed
```

```
make[1]: [stpgps.o] Error 1 (ignored)
```

```
/bin/rm -f stprad.o stprad.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stprad.f90
stprad.f90:27:4:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stprad.o' failed
```

```
make[1]: [stprad.o] Error 1 (ignored)
```

```
/bin/rm -f stpq.o stpq.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpq.f90
stpq.f90:79:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpq.o' failed
```

```
make[1]: [stpq.o] Error 1 (ignored)
```

```
/bin/rm -f stppw.o stppw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stppw.f90
stppw.f90:81:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stppw.o' failed
```

```
make[1]: [stppw.o] Error 1 (ignored)
```

```
/bin/rm -f stpps.o stpps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpps.f90
stpps.f90:80:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'stpps.o' failed`

`make[1]: [stpps.o] Error 1 (ignored)`

`/bin/rm -f stpw.o stpw.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpw.f90`

`stpw.f90:83:6:`

`use kinds, only: r_kind,i_kind,r_quad`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'stpw.o' failed`

`make[1]: [stpw.o] Error 1 (ignored)`

`/bin/rm -f stpt.o stpt.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpt.f90`

`stpt.f90:101:6:`

`use kinds, only: r_kind,i_kind,r_quad`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'stpt.o' failed`

`make[1]: [stpt.o] Error 1 (ignored)`

`/bin/rm -f stpjo.o stpjo.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`

`-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include`

`-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpjo.f90`

`stpjo.f90:25:6:`

`use kinds , only: i_kind`

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

`../dtc/configure.gsi:123: recipe for target 'stpjo.o' failed`

`make[1]: [stpjo.o] Error 1 (ignored)`

`/bin/rm -f projmethod_support.o projmethod_support.mod`

`mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check`

`-fconvert=big-endian -frecord-marker=4`


```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
projmethod_support.f90
projmethod_support.f90:31:6:
```

```
use kinds, only: r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'projmethod_support.o' failed
```

```
make[1]: [projmethod_support.o] Error 1 (ignored)
```

```
/bin/rm -f stpjcm.o stpjcm.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stpjcm.f90
```

```
stpjcm.f90:24:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpjcm.o' failed
```

```
make[1]: [stpjcm.o] Error 1 (ignored)
```

```
/bin/rm -f stpcalc.o stpcalc.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stpcalc.f90
```

```
stpcalc.f90:213:6:
```

```
use kinds, only: r_kind,i_kind,r_quad,r_single
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stpcalc.o' failed
```

```
make[1]: [stpcalc.o] Error 1 (ignored)
```

```
/bin/rm -f pcgsoi.o pcgsoi.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c pcgsoi.f90
```

```
pcgsoi.f90:124:6:
```

```
use kinds, only: r_kind,i_kind,r_double,r_quad
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'pcgsoi.o' failed
make[1]: [pcgsoi.o] Error 1 (ignored)
/bin/rm -f glbsoi.o glbsoi.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c glbsoi.f90
glbsoi.f90:108:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'glbsoi.o' failed
make[1]: [glbsoi.o] Error 1 (ignored)
/bin/rm -f grdcrd.o grdcrd.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c grdcrd.f90
grdcrd.f90:33:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'grdcrd.o' failed
make[1]: [grdcrd.o] Error 1 (ignored)
/bin/rm -f gscond_ad.o gscond_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
gscond_ad.f90
gscond_ad.f90:59:6:
```

```
use kinds, only: r_kind,i_kind
1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'gscond_ad.o' failed
make[1]: [gscond_ad.o] Error 1 (ignored)
/bin/rm -f gsd_terrain_match_surfTobs.o gsd_terrain_match_surfTobs.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsd_terrain_match_surfTobs.f90
gsd_terrain_match_surfTobs.f90:28:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsd_terrain_match_surfTobs.o' failed
make[1]: [gsd_terrain_match_surfTobs.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp gsdcloudanalysis.F90 >
gsdcloudanalysis.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsdcloudanalysis.fpp
gsdcloudanalysis.fpp:50:6:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsdcloudanalysis.o' failed
make[1]: [gsdcloudanalysis.o] Error 1 (ignored)
```

```
/bin/rm -f gsdcloudanalysis.fpp
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp gsdcloudanalysis4gfs.F90 >
gsdcloudanalysis4gfs.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsdcloudanalysis4gfs.fpp
gsdcloudanalysis4gfs.fpp:50:6:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsdcloudanalysis4gfs.o' failed
make[1]: [gsdcloudanalysis4gfs.o] Error 1 (ignored)
```

```
/bin/rm -f gsdcloudanalysis4gfs.fpp
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp gsdcloudanalysis4NMMB.F90 >
gsdcloudanalysis4NMMB.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsdcloudanalysis4NMMB.fpp
gsdcloudanalysis4NMMB.fpp:15:4:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsdcloudanalysis4NMMB.o' failed
```

```
make[1]: [gsdcloudanalysis4NMMB.o] Error 1 (ignored)
```

```
/bin/rm -f gsdcloudanalysis4NMMB.fpp
```

```
/bin/rm -f gsd_update_mod.o gsd_update_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
gsd_update_mod.f90
gsd_update_mod.f90:23:6:
```

```
use gsi_metguess_mod, only: GSI_MetGuess_Bundle
```

```
1
```

```
Fatal Error: Can't open module file "gsi_metguess_mod.mod" for reading at (1):
No such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'gsd_update_mod.o' failed
```

```
make[1]: [gsd_update_mod.o] Error 1 (ignored)
```

```
/bin/rm -f tcv_mod.o tcv_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c tcv_mod.f90
```

```
tcv_mod.f90:41:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tcv_mod.o' failed
```

```
make[1]: [tcv_mod.o] Error 1 (ignored)
```

```
/bin/rm -f read_l2bufr_mod.o read_l2bufr_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_l2bufr_mod.f90
read_l2bufr_mod.f90:43:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_l2bufr_mod.o' failed
```

```
make[1]: [read_l2bufr_mod.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp oneobmod.F90 >
```

```
oneobmod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
oneobmod.fpp
```

```
oneobmod.fpp:52:6:
```

```
use kinds, only: r_kind,i_kind,r_double
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'oneobmod.o' failed
```

```
make[1]: [oneobmod.o] Error 1 (ignored)
```

```
/bin/rm -f oneobmod.fpp
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp gsimod.F90 > gsimod.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c gsimod.fpp
```

```
gsimod.fpp:28:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'gsimod.o' failed
```

```
make[1]: [gsimod.o] Error 1 (ignored)
```

```
/bin/rm -f gsimod.fpp
```

```
/bin/rm -f gsimain.o gsimain.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c gsimain.f90
```

gsimain.f90:12:7:

```
use gsimod, only: gsimain_initialize,gsimain_run,gsimain_finalize
```

1

Fatal Error: Can't open module file `gsimod.mod` for reading at (1): No such file or directory

compilation terminated.

../dtc/configure.gsi:123: recipe for target 'gsimain.o' failed

make[1]: [gsimain.o] Error 1 (ignored)

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp gsisub.F90 > gsisub.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c gsisub.fpp
```

gsisub.fpp:88:6:

```
use kinds, only: i_kind
```

1

Fatal Error: File `kinds.mod` opened at (1) is not a GNU Fortran module file

compilation terminated.

makefile_DTC:102: recipe for target 'gsisub.o' failed

make[1]: [gsisub.o] Error 1 (ignored)

```
/bin/rm -f gsisub.fpp
```

```
/bin/rm -f half_nmm_grid2.o half_nmm_grid2.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
half_nmm_grid2.f90
```

half_nmm_grid2.f90:63:6:

```
use kinds, only: r_single,i_kind
```

1

Fatal Error: File `kinds.mod` opened at (1) is not a GNU Fortran module file

compilation terminated.

../dtc/configure.gsi:123: recipe for target 'half_nmm_grid2.o' failed

make[1]: [half_nmm_grid2.o] Error 1 (ignored)

```
/bin/rm -f phil1.o phil1.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c phil1.f90
```

phil1.f90:26:4:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File `kinds.mod` opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'phil1.o' failed
make[1]: [phil1.o] Error 1 (ignored)
/bin/rm -f phil.o phil.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c phil.f90
phil.f90:34:4:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'phil.o' failed
make[1]: [phil.o] Error 1 (ignored)
/bin/rm -f hilbert_curve.o hilbert_curve.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
hilbert_curve.f90
hilbert_curve.f90:40:4:
```

```
use phil, only: xy_to_hil,hil_to_r,bsort
```

```
1
```

```
Fatal Error: Can't open module file "phil.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'hilbert_curve.o' failed
make[1]: [hilbert_curve.o] Error 1 (ignored)
/bin/rm -f inc2guess.o inc2guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
inc2guess.f90
inc2guess.f90:37:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'inc2guess.o' failed
make[1]: [inc2guess.o] Error 1 (ignored)
/bin/rm -f init_jcdfi.o init_jcdfi.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```

-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
init_jcdfi.f90
init_jcdfi.f90:26:4:

    use kinds, only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'init_jcdfi.o' failed
make[1]: [init_jcdfi.o] Error 1 (ignored)
/bin/rm -f intrp_msk.o intrp_msk.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
intrp_msk.f90
intrp_msk.f90:54:5:

    use kinds, only: r_kind,i_kind,r_single
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intrp_msk.o' failed
make[1]: [intrp_msk.o] Error 1 (ignored)
/bin/rm -f intrp2a.o intrp2a.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c intrp2a.f90
intrp2a.f90:38:6:

    use kinds, only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'intrp2a.o' failed
make[1]: [intrp2a.o] Error 1 (ignored)
/bin/rm -f intrp3oz.o intrp3oz.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
intrp3oz.f90

```


intrp3oz.f90:40:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'intrp3oz.o' failed

make[1]: [intrp3oz.o] Error 1 (ignored)

/bin/rm -f jgrad.o jgrad.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c jgrad.f90

jgrad.f90:28:4:

use kinds, only: r_kind,i_kind,r_quad

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'jgrad.o' failed

make[1]: [jgrad.o] Error 1 (ignored)

/bin/rm -f lagmod.o lagmod.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c lagmod.f90

lagmod.f90:36:4:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'lagmod.o' failed

make[1]: [lagmod.o] Error 1 (ignored)

/bin/rm -f logcldch_to_cldch.o logcldch_to_cldch.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

logcldch_to_cldch.f90

logcldch_to_cldch.f90:23:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'logcldch_to_cldch.o' failed

```
make[1]: [logcldch_to_cldch.o] Error 1 (ignored)
/bin/rm -f loglcbas_to_lcbas.o loglcbas_to_lcbas.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
loglcbas_to_lcbas.f90
loglcbas_to_lcbas.f90:23:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'loglcbas_to_lcbas.o' failed
```

```
make[1]: [loglcbas_to_lcbas.o] Error 1 (ignored)
```

```
/bin/rm -f logvis_to_vis.o logvis_to_vis.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
logvis_to_vis.f90
logvis_to_vis.f90:23:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'logvis_to_vis.o' failed
```

```
make[1]: [logvis_to_vis.o] Error 1 (ignored)
```

```
/bin/rm -f looplimits.o looplimits.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
looplimits.f90
looplimits.f90:28:10:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'looplimits.o' failed
```

```
make[1]: [looplimits.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_dgeevx.F90 >
m_dgeevx.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_dgeevx.fpp
m_dgeevx.fpp:73:10:

        use kinds,only : i_kind
        1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_dgeevx.o' failed
make[1]: [m_dgeevx.o] Error 1 (ignored)
/bin/rm -f m_dgeevx.fpp
/bin/rm -f m_distance.o m_distance.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
m_distance.f90
m_distance.f90:25:6:

```

```

        use constants, only: deg2rad,half,two
        1
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'm_distance.o' failed
make[1]: [m_distance.o] Error 1 (ignored)
/bin/rm -f m_find.o m_find.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c m_find.f90
m_find.f90:25:6:

```

```

        use kinds,only : i_kind, r_kind
        1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'm_find.o' failed
make[1]: [m_find.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp m_gpsrhs.F90 >
m_gpsrhs.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

```

```
m_gpsrhs.fpp
m_gpsrhs.fpp:53:6:
```

```
    use kinds, only: r_kind, i_kind, r_single
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_gpsrhs.o' failed
```

```
make[1]: [m_gpsrhs.o] Error 1 (ignored)
```

```
/bin/rm -f m_gpsrhs.fpp
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_rhs.F90 > m_rhs.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c m_rhs.fpp
```

```
m_rhs.fpp:52:6:
```

```
    use kinds, only: r_kind, i_kind, r_single
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'm_rhs.o' failed
```

```
make[1]: [m_rhs.o] Error 1 (ignored)
```

```
/bin/rm -f m_rhs.fpp
```

```
/bin/rm -f m_sortind.o m_sortind.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
m_sortind.f90
```

```
m_sortind.f90:25:6:
```

```
    use kinds,only : i_kind, r_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'm_sortind.o' failed
```

```
make[1]: [m_sortind.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp m_tick.F90 > m_tick.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c m_tick.fpp
```

```
m_tick.fpp:36:4:
```

```
    use kinds, only: i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'm_tick.o' failed
make[1]: [m_tick.o] Error 1 (ignored)
/bin/rm -f m_tick.fpp
/bin/rm -f m_uniq.o m_uniq.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c m_uniq.f90
m_uniq.f90:49:6:
```

```
    use kinds,only : i_kind, r_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'm_uniq.o' failed
make[1]: [m_uniq.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp model_ad.F90 >
model_ad.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
model_ad.fpp
model_ad.fpp:27:4:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'model_ad.o' failed
make[1]: [model_ad.o] Error 1 (ignored)
/bin/rm -f model_ad.fpp
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp model_tl.F90 >
model_tl.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
model_tl.fpp
model_tl.fpp:27:4:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'model_tl.o' failed
make[1]: [model_tl.o] Error 1 (ignored)
/bin/rm -f model_tl.fpp
/bin/rm -f mp_compact_diffs_support.o mp_compact_diffs_support.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mp_compact_diffs_support.f90
mp_compact_diffs_support.f90:34:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mp_compact_diffs_support.o' failed
make[1]: [mp_compact_diffs_support.o] Error 1 (ignored)
/bin/rm -f mpl_bcast.o mpl_bcast.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
mpl_bcast.f90
mpl_bcast.f90:14:4:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'mpl_bcast.o' failed
make[1]: [mpl_bcast.o] Error 1 (ignored)
/bin/rm -f nlmsas_ad.o nlmsas_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
nlmsas_ad.f90
nlmsas_ad.f90:64:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'nlmsas_ad.o' failed
make[1]: [nlmsas_ad.o] Error 1 (ignored)
/bin/rm -f normal_rh_to_q.o normal_rh_to_q.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
normal_rh_to_q.f90
normal_rh_to_q.f90:32:6:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'normal_rh_to_q.o' failed
```

```
make[1]: [normal_rh_to_q.o] Error 1 (ignored)
```

```
/bin/rm -f Nst_Var_ESMFMod.o Nst_Var_ESMFMod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
Nst_Var_ESMFMod.f90
```

```
Nst_Var_ESMFMod.f90:19:5:
```

```
use kinds, only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'Nst_Var_ESMFMod.o' failed
```

```
make[1]: [Nst_Var_ESMFMod.o] Error 1 (ignored)
```

```
/bin/rm -f obs_para.o obs_para.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
obs_para.f90
```

```
obs_para.f90:57:6:
```

```
use kinds, only: i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'obs_para.o' failed
```

```
make[1]: [obs_para.o] Error 1 (ignored)
```

```
/bin/rm -f obserr_allsky_mw.o obserr_allsky_mw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
obserr_allsky_mw.f90
```

obserr_allsky_mw.f90:25:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'obserr_allsky_mw.o' failed

make[1]: [obserr_allsky_mw.o] Error 1 (ignored)

```
/bin/rm -f omegas_ad.o omegas_ad.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
omegas_ad.f90
```

omegas_ad.f90:55:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'omegas_ad.o' failed

make[1]: [omegas_ad.o] Error 1 (ignored)

```
/bin/rm -f pcgsqrt.o pcgsqrt.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c pcgsqrt.f90
```

pcgsqrt.f90:35:4:

```
use kinds, only: r_kind,i_kind,r_quad
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'pcgsqrt.o' failed

make[1]: [pcgsqrt.o] Error 1 (ignored)

```
/bin/rm -f pcp_k.o pcp_k.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c pcp_k.f90
```

pcp_k.f90:102:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.


```
../dtc/configure.gsi:123: recipe for target 'pcp_k.o' failed
make[1]: [pcp_k.o] Error 1 (ignored)
/bin/rm -f penal.o penal.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c penal.f90
penal.f90:30:6:
```

```
use kinds, only: r_single,r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'penal.o' failed
make[1]: [penal.o] Error 1 (ignored)
/bin/rm -f polcarf.o polcarf.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c polcarf.f90
polcarf.f90:29:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'polcarf.o' failed
make[1]: [polcarf.o] Error 1 (ignored)
/bin/rm -f precond.o precond.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c precond.f90
precond.f90:25:6:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'precond.o' failed
make[1]: [precond.o] Error 1 (ignored)
/bin/rm -f precpd_ad.o precpd_ad.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
precpd_ad.f90
precpd_ad.f90:64:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'precpd_ad.o' failed
```

```
make[1]: [precpd_ad.o] Error 1 (ignored)
```

```
/bin/rm -f prewgt.o prewgt.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c prewgt.f90
prewgt.f90:87:6:
```

```
use kinds, only: r_kind,i_kind,r_single,r_double,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'prewgt.o' failed
```

```
make[1]: [prewgt.o] Error 1 (ignored)
```

```
/bin/rm -f prewgt_reg.o prewgt_reg.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
prewgt_reg.f90
prewgt_reg.f90:73:6:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'prewgt_reg.o' failed
```

```
make[1]: [prewgt_reg.o] Error 1 (ignored)
```

```
/bin/rm -f prt_guess.o prt_guess.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
prt_guess.f90
prt_guess.f90:33:6:
```

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'prt_guess.o' failed

make[1]: [prt_guess.o] Error 1 (ignored)

/bin/rm -f psichi2uv_reg.o psichi2uv_reg.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

psichi2uv_reg.f90

psichi2uv_reg.f90:43:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'psichi2uv_reg.o' failed

make[1]: [psichi2uv_reg.o] Error 1 (ignored)

/bin/rm -f psichi2uvt_reg.o psichi2uvt_reg.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

psichi2uvt_reg.f90

psichi2uvt_reg.f90:42:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'psichi2uvt_reg.o' failed

make[1]: [psichi2uvt_reg.o] Error 1 (ignored)

/bin/rm -f q_diag.o q_diag.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c q_diag.f90

q_diag.f90:35:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'q_diag.o' failed

make[1]: [q_diag.o] Error 1 (ignored)

/bin/rm -f qnewton3.o qnewton3.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
qnewton3.f90
qnewton3.f90:32:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'qnewton3.o' failed
```

```
make[1]: [qnewton3.o] Error 1 (ignored)
```

```
/bin/rm -f rdgrbsst.o rdgrbsst.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
rdgrbsst.f90
rdgrbsst.f90:53:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'rdgrbsst.o' failed
```

```
make[1]: [rdgrbsst.o] Error 1 (ignored)
```

```
/bin/rm -f read_aerosol.o read_aerosol.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_aerosol.f90
read_aerosol.f90:58:6:
```

```
use kinds, only: r_kind, r_double, i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_aerosol.o' failed
```

```
make[1]: [read_aerosol.o] Error 1 (ignored)
```

```
/bin/rm -f read_ahi.o read_ahi.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_ahi.f90
read_ahi.f90:49:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_ahi.o' failed
```

```
make[1]: [read_ahi.o] Error 1 (ignored)
```

```
/bin/rm -f read_airs.o read_airs.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_airs.f90
```

```
read_airs.f90:109:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_airs.o' failed
```

```
make[1]: [read_airs.o] Error 1 (ignored)
```

```
/bin/rm -f ssmis_spatial_average_mod.o ssmis_spatial_average_mod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
ssmis_spatial_average_mod.f90
```

```
ssmis_spatial_average_mod.f90:17:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'ssmis_spatial_average_mod.o' failed
```

```
make[1]: [ssmis_spatial_average_mod.o] Error 1 (ignored)
```

```
/bin/rm -f read_amsr2.o read_amsr2.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_amsr2.f90
```

```
read_amsr2.f90:56:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_amsr2.o' failed
make[1]: [read_amsr2.o] Error 1 (ignored)
/bin/rm -f read_amsre.o read_amsre.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_amsre.f90
read_amsre.f90:98:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_amsre.o' failed
make[1]: [read_amsre.o] Error 1 (ignored)
/bin/rm -f read_anowbufr.o read_anowbufr.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_anowbufr.f90
read_anowbufr.f90:41:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_anowbufr.o' failed
make[1]: [read_anowbufr.o] Error 1 (ignored)
/bin/rm -f read_atms.o read_atms.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_atms.f90
read_atms.f90:71:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_atms.o' failed
make[1]: [read_atms.o] Error 1 (ignored)
/bin/rm -f read_avhrr.o read_avhrr.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_avhrr.f90
read_avhrr.f90:75:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_avhrr.o' failed
```

```
make[1]: [read_avhrr.o] Error 1 (ignored)
```

```
/bin/rm -f read_avhrr_navy.o read_avhrr_navy.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_avhrr_navy.f90
read_avhrr_navy.f90:79:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_avhrr_navy.o' failed
```

```
make[1]: [read_avhrr_navy.o] Error 1 (ignored)
```

```
/bin/rm -f read_bufrtovs.o read_bufrtovs.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_bufrtovs.f90
read_bufrtovs.f90:128:6:
```

```
use kinds, only: r_kind,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_bufrtovs.o' failed
```

```
make[1]: [read_bufrtovs.o] Error 1 (ignored)
```

```
/bin/rm -f read_co.o read_co.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c read_co.f90
```

```
read_co.f90:31:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_co.o' failed
```

```
make[1]: [read_co.o] Error 1 (ignored)
```

```
/bin/rm -f read_cris.o read_cris.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_cris.f90
```

```
read_cris.f90:71:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_cris.o' failed
```

```
make[1]: [read_cris.o] Error 1 (ignored)
```

```
/bin/rm -f read_files.o read_files.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_files.f90
```

```
read_files.f90:75:6:
```

```
    use kinds, only: r_kind,r_single,i_kind,i_llong
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file  
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_files.o' failed
```

```
make[1]: [read_files.o] Error 1 (ignored)
```

```
/bin/rm -f support_2dvar.o support_2dvar.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check  
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
support_2dvar.f90
```

```
support_2dvar.f90:42:6:
```

```
    use kinds, only: r_single,i_kind
```

```
    1
```



```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'support_2dvar.o' failed
make[1]: [support_2dvar.o] Error 1 (ignored)
/bin/rm -f read_fl_hdob.o read_fl_hdob.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_fl_hdob.f90
read_fl_hdob.f90:47:9:
```

```
    use kinds, only: r_single,r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_fl_hdob.o' failed
make[1]: [read_fl_hdob.o] Error 1 (ignored)
/bin/rm -f read_gfs_ozone_for_regional.o read_gfs_ozone_for_regional.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_gfs_ozone_for_regional.f90
read_gfs_ozone_for_regional.f90:43:6:
```

```
    use gridmod, only:
```

```
nlat,nlon,lat2,lon2,nsig,region_lat,region_lon,check_gfs_ozone_date
```

```
    1
```

```
Fatal Error: Can't open module file "gridmod.mod" for reading at (1): No such
file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_gfs_ozone_for_regional.o' failed
make[1]: [read_gfs_ozone_for_regional.o] Error 1 (ignored)
/bin/rm -f read_gmi.o read_gmi.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_gmi.f90
read_gmi.f90:80:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_gmi.o' failed
```

```
make[1]: [read_gmi.o] Error 1 (ignored)
/bin/rm -f read_goesimg.o read_goesimg.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_goesimg.f90
read_goesimg.f90:74:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_goesimg.o' failed
```

```
make[1]: [read_goesimg.o] Error 1 (ignored)
```

```
/bin/rm -f read_goesimgr_skycover.o read_goesimgr_skycover.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_goesimgr_skycover.f90
read_goesimgr_skycover.f90:47:6:
```

```
    use kinds, only: r_single,r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_goesimgr_skycover.o' failed
```

```
make[1]: [read_goesimgr_skycover.o] Error 1 (ignored)
```

```
/bin/rm -f read_goesndr.o read_goesndr.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSiv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_goesndr.f90
read_goesndr.f90:92:6:
```

```
    use kinds, only: r_kind,r_double,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_goesndr.o' failed
```

```
make[1]: [read_goesndr.o] Error 1 (ignored)
```

```
/bin/rm -f read_gps.o read_gps.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSiv3.6_EnKFv1.2/dtc/include
```

```

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_gps.f90
read_gps.f90:81:6:

    use kinds, only: r_kind,i_kind,r_double
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_gps.o' failed
make[1]: [read_gps.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp read_guess.F90 >
read_guess.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_guess.fpp
read_guess.fpp:100:6:

    use kinds, only: r_kind,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
makefile_DTC:102: recipe for target 'read_guess.o' failed
make[1]: [read_guess.o] Error 1 (ignored)
/bin/rm -f read_guess.fpp
/bin/rm -f read_iasi.o read_iasi.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_iasi.f90
read_iasi.f90:106:6:

    use kinds, only: r_kind,r_double,i_kind
    1
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_iasi.o' failed
make[1]: [read_iasi.o] Error 1 (ignored)
/bin/rm -f read_lag.o read_lag.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_lag.f90

```

read_lag.f90:40:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_lag.o' failed

make[1]: [read_lag.o] Error 1 (ignored)

/bin/rm -f read_lidar.o read_lidar.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

read_lidar.f90

read_lidar.f90:62:6:

use kinds, only: r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_lidar.o' failed

make[1]: [read_lidar.o] Error 1 (ignored)

/bin/rm -f read_Lightning.o read_Lightning.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

read_Lightning.f90

read_Lightning.f90:43:6:

use kinds, only: r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_Lightning.o' failed

make[1]: [read_Lightning.o] Error 1 (ignored)

/bin/rm -f sfcobsqc.o sfcobsqc.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

sfcobsqc.f90

sfcobsqc.f90:40:6:

use kinds, only: i_kind,r_kind,r_single,r_double

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'sfcobsqc.o' failed
make[1]: [sfcobsqc.o] Error 1 (ignored)
/bin/rm -f read_mitm_mxtm.o read_mitm_mxtm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_mitm_mxtm.f90
read_mitm_mxtm.f90:32:6:
```

```
use kinds, only: r_single,r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_mitm_mxtm.o' failed
make[1]: [read_mitm_mxtm.o] Error 1 (ignored)
/bin/rm -f read_modsbuf.o read_modsbuf.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_modsbuf.f90
read_modsbuf.f90:53:6:
```

```
use kinds, only: r_kind,r_double,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_modsbuf.o' failed
make[1]: [read_modsbuf.o] Error 1 (ignored)
/bin/rm -f read_nasa_larc.o read_nasa_larc.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_nasa_larc.f90
read_nasa_larc.f90:49:6:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_nasa_larc.o' failed
make[1]: [read_nasa_larc.o] Error 1 (ignored)
/bin/rm -f read_nsstbuf.o read_nsstbuf.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_nsstbufr.f90
read_nsstbufr.f90:39:6:
```

```
use kinds, only: r_kind,r_double,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_nsstbufr.o' failed
```

```
make[1]: [read_nsstbufr.o] Error 1 (ignored)
```

```
/bin/rm -f read_NASA_LaRC_cloud.o read_NASA_LaRC_cloud.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_NASA_LaRC_cloud.f90
```

```
read_NASA_LaRC_cloud.f90:29:6:
```

```
use kinds, only: r_kind,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_NASA_LaRC_cloud.o' failed
```

```
make[1]: [read_NASA_LaRC_cloud.o] Error 1 (ignored)
```

```
/bin/rm -f read_ozone.o read_ozone.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_ozone.f90
```

```
read_ozone.f90:96:6:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_ozone.o' failed
```

```
make[1]: [read_ozone.o] Error 1 (ignored)
```

```
/bin/rm -f read_pblh.o read_pblh.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_pblh.f90
```

read_pblh.f90:34:10:

use kinds, only: r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_pblh.o' failed

make[1]: [read_pblh.o] Error 1 (ignored)

/bin/rm -f read_pcp.o read_pcp.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

read_pcp.f90

read_pcp.f90:67:6:

use kinds, only: r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_pcp.o' failed

make[1]: [read_pcp.o] Error 1 (ignored)

/bin/rm -f read_prepbufr.o read_prepbufr.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

read_prepbufr.f90

read_prepbufr.f90:162:6:

use kinds, only: r_single,r_kind,r_double,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_prepbufr.o' failed

make[1]: [read_prepbufr.o] Error 1 (ignored)

/bin/rm -f read_radar.o read_radar.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

read_radar.f90

read_radar.f90:80:6:

use kinds, only: r_kind,r_single,r_double,i_kind,i_byte

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_radar.o' failed
make[1]: [read_radar.o] Error 1 (ignored)
/bin/rm -f read_radarref_mosaic.o read_radarref_mosaic.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_radarref_mosaic.f90
read_radarref_mosaic.f90:47:6:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_radarref_mosaic.o' failed
make[1]: [read_radarref_mosaic.o] Error 1 (ignored)
/bin/rm -f read_rapidscat.o read_rapidscat.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_rapidscat.f90
read_rapidscat.f90:41:6:
```

```
use kinds, only: r_kind,r_double,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_rapidscat.o' failed
make[1]: [read_rapidscat.o] Error 1 (ignored)
/bin/rm -f read_saphir.o read_saphir.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_saphir.f90
read_saphir.f90:55:6:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_saphir.o' failed
make[1]: [read_saphir.o] Error 1 (ignored)
/bin/rm -f read_satmar.o read_satmar.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```



```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_satmar.f90
read_satmar.f90:53:7:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_satmar.o' failed
```

```
make[1]: [read_satmar.o] Error 1 (ignored)
```

```
/bin/rm -f read_satwnd.o read_satwnd.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_satwnd.f90
```

```
read_satwnd.f90:90:6:
```

```
use kinds, only: r_kind,r_double,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_satwnd.o' failed
```

```
make[1]: [read_satwnd.o] Error 1 (ignored)
```

```
/bin/rm -f read_seviri.o read_seviri.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_seviri.f90
```

```
read_seviri.f90:56:6:
```

```
use kinds, only: r_kind,r_double,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_seviri.o' failed
```

```
make[1]: [read_seviri.o] Error 1 (ignored)
```

```
/bin/rm -f read_sfcwnd.o read_sfcwnd.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
read_sfcwnd.f90
```

read_sfcwnd.f90:46:6:

```
use kinds, only: r_kind,r_double,i_kind,r_single
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_sfcwnd.o' failed

make[1]: [read_sfcwnd.o] Error 1 (ignored)

```
/bin/rm -f read_ssmi.o read_ssmi.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_ssmi.f90
```

read_ssmi.f90:87:6:

```
use kinds, only: r_kind,r_double,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_ssmi.o' failed

make[1]: [read_ssmi.o] Error 1 (ignored)

```
/bin/rm -f read_ssmis.o read_ssmis.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_ssmis.f90
```

read_ssmis.f90:95:6:

```
use kinds, only: r_kind,r_double,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'read_ssmis.o' failed

make[1]: [read_ssmis.o] Error 1 (ignored)

```
/bin/rm -f read_superwinds.o read_superwinds.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
read_superwinds.f90
```

read_superwinds.f90:87:6:

```
use kinds, only: r_kind,r_single,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'read_superwinds.o' failed
make[1]: [read_superwinds.o] Error 1 (ignored)
/bin/rm -f read_tcps.o read_tcps.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
read_tcps.f90
read_tcps.f90:33:6:
```

```
    use kinds, only: r_kind,i_kind,r_double
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'read_tcps.o' failed
make[1]: [read_tcps.o] Error 1 (ignored)
/bin/rm -f reorg_metar_cloud.o reorg_metar_cloud.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
reorg_metar_cloud.f90
reorg_metar_cloud.f90:43:6:
```

```
    use kinds, only: r_kind,i_kind,r_double
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'reorg_metar_cloud.o' failed
make[1]: [reorg_metar_cloud.o] Error 1 (ignored)
/bin/rm -f rfdpar.o rfdpar.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c rfdpar.f90
rfdpar.f90:46:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'rfdpar.o' failed
make[1]: [rfdpar.o] Error 1 (ignored)
cpp -P -D_REAL8 -DWRF -DLINUX -DPGI -traditional-cpp rsearch.F90 > rsearch.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c rsearch.fpp
rsearch.fpp:90:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'rsearch.o' failed
```

```
make[1]: [rsearch.o] Error 1 (ignored)
```

```
/bin/rm -f rsearch.fpp
```

```
/bin/rm -f rtlncm_version3.o rtlncm_version3.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
rtlncm_version3.f90
```

```
rtlncm_version3.f90:22:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'rtlncm_version3.o' failed
```

```
make[1]: [rtlncm_version3.o] Error 1 (ignored)
```

```
/bin/rm -f setupaod.o setupaod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setupaod.f90
```

```
setupaod.f90:44:6:
```

```
use radinfo, only: nsigradjac
```

```
1
```

```
Fatal Error: Can't open module file "radinfo.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupaod.o' failed
```

```
make[1]: [setupaod.o] Error 1 (ignored)
```

```
/bin/rm -f setupbend.o setupbend.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setupbend.f90
```

setupbend.f90:104:6:

```
use mpeu_util, only: die,perr,tell
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupbend.o' failed
```

```
make[1]: [setupbend.o] Error 1 (ignored)
```

```
/bin/rm -f setupcldch.o setupcldch.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setupcldch.f90
```

setupcldch.f90:39:6:

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupcldch.o' failed
```

```
make[1]: [setupcldch.o] Error 1 (ignored)
```

```
/bin/rm -f setupco.o setupco.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setupco.f90
```

setupco.f90:58:6:

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupco.o' failed
```

```
make[1]: [setupco.o] Error 1 (ignored)
```

```
/bin/rm -f setupdw.o setupdw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setupdw.f90
```

setupdw.f90:14:6:

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No  
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupdw.o' failed
```

```
make[1]: [setupdw.o] Error 1 (ignored)
```

```
/bin/rm -f setupgust.o setupgust.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setupgust.f90
```

```
setupgust.f90:46:6:
```

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No  
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupgust.o' failed
```

```
make[1]: [setupgust.o] Error 1 (ignored)
```

```
/bin/rm -f setuphowv.o setuphowv.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setuphowv.f90
```

```
setuphowv.f90:40:6:
```

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No  
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuphowv.o' failed
```

```
make[1]: [setuphowv.o] Error 1 (ignored)
```

```
/bin/rm -f setuplag.o setuplag.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setuplag.f90
```

```
setuplag.f90:36:6:
```

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'setuplag.o' failed
make[1]: [setuplag.o] Error 1 (ignored)
/bin/rm -f setuplcbas.o setuplcbas.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuplcbas.f90
setuplcbas.f90:40:6:
```

```
use mpeu_util, only: die,perr
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'setuplcbas.o' failed
make[1]: [setuplcbas.o] Error 1 (ignored)
/bin/rm -f setupmitm.o setupmitm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupmitm.f90
setupmitm.f90:39:6:
```

```
use mpeu_util, only: die,perr
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'setupmitm.o' failed
make[1]: [setupmitm.o] Error 1 (ignored)
/bin/rm -f setupmxtm.o setupmxtm.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupmxtm.f90
setupmxtm.f90:39:6:
```

```
use mpeu_util, only: die,perr
1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
```

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'setupmxtm.o' failed
make[1]: [setupmxtm.o] Error 1 (ignored)
/bin/rm -f setupoz.o setupoz.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c setupoz.f90
```

setupoz.f90:98:6:

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file ~mpeu_util.mod™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupoz.o' failed
make[1]: [setupoz.o] Error 1 (ignored)
/bin/rm -f setuppblh.o setuppblh.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

setuppblh.f90

setuppblh.f90:44:6:

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file ~mpeu_util.mod™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppblh.o' failed
make[1]: [setuppblh.o] Error 1 (ignored)
/bin/rm -f setuppcp.o setuppcp.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

setuppcp.f90

setuppcp.f90:15:6:

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file ~mpeu_util.mod™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppcp.o' failed
```



```
make[1]: [setuppcp.o] Error 1 (ignored)
/bin/rm -f setuppm2_5.o setuppm2_5.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuppm2_5.f90
setuppm2_5.f90:49:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppm2_5.o' failed
```

```
make[1]: [setuppm2_5.o] Error 1 (ignored)
```

```
/bin/rm -f setuppm10.o setuppm10.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuppm10.f90
setuppm10.f90:42:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppm10.o' failed
```

```
make[1]: [setuppm10.o] Error 1 (ignored)
```

```
/bin/rm -f setuppmsl.o setuppmsl.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuppmsl.f90
setuppmsl.f90:39:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppmsl.o' failed
```

```
make[1]: [setuppmsl.o] Error 1 (ignored)
```

```
/bin/rm -f setupps.o setupps.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setupps.f90
```

setupps.f90:89:6:

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupps.o' failed
```

```
make[1]: [setupps.o] Error 1 (ignored)
```

```
/bin/rm -f setuppw.o setuppw.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setuppw.f90
```

setuppw.f90:74:6:

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppw.o' failed
```

```
make[1]: [setuppw.o] Error 1 (ignored)
```

```
/bin/rm -f setupq.o setupq.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setupq.f90
```

setupq.f90:105:6:

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
```

```
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupq.o' failed
```

```
make[1]: [setupq.o] Error 1 (ignored)
```

```
/bin/rm -f sst_retrieval.o sst_retrieval.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
sst_retrieval.f90
sst_retrieval.f90:29:6:
```

```
use kinds, only: r_kind,r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'sst_retrieval.o' failed
```

```
make[1]: [sst_retrieval.o] Error 1 (ignored)
```

```
/bin/rm -f setuprad.o setuprad.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setuprad.f90
```

```
setuprad.f90:212:6:
```

```
use mpeu_util, only: die,perr,getindex
```

```
1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuprad.o' failed
```

```
make[1]: [setuprad.o] Error 1 (ignored)
```

```
/bin/rm -f setuppref.o setuppref.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setuppref.f90
```

```
setuppref.f90:120:6:
```

```
use mpeu_util, only: die,perr
```

```
1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuppref.o' failed
```

```
make[1]: [setuppref.o] Error 1 (ignored)
```

```
/bin/rm -f setuprhsall.o setuprhsall.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
setuprhsall.f90
```

setuprhsall.f90:113:6:

use kinds, only: r_kind,i_kind,r_quad,r_single

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setuprhsall.o' failed

make[1]: [setuprhsall.o] Error 1 (ignored)

/bin/rm -f setuprw.o setuprw.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c setuprw.f90

setuprw.f90:82:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setuprw.o' failed

make[1]: [setuprw.o] Error 1 (ignored)

/bin/rm -f setupspd.o setupspd.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

setupspd.f90

setupspd.f90:82:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setupspd.o' failed

make[1]: [setupspd.o] Error 1 (ignored)

/bin/rm -f setupsrw.o setupsrw.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

setupsrw.f90

setupsrw.f90:80:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setupsrw.o' failed

make[1]: [setupsrw.o] Error 1 (ignored)

/bin/rm -f setupsst.o setupsst.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

setupsst.f90

setupsst.f90:69:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setupsst.o' failed

make[1]: [setupsst.o] Error 1 (ignored)

/bin/rm -f setupt.o setupt.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c setupt.f90

setupt.f90:14:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod`™ for reading at (1): No such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'setupt.o' failed

make[1]: [setupt.o] Error 1 (ignored)

/bin/rm -f setuptcamt.o setuptcamt.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

setuptcamt.f90

setuptcamt.f90:40:6:

use mpeu_util, only: die,perr

1

Fatal Error: Can't open module file `~mpeu_util.mod`™ for reading at (1): No such file or directory

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'setuptcamt.o' failed
make[1]: [setuptcamt.o] Error 1 (ignored)
/bin/rm -f setuptcp.o setuptcp.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuptcp.f90
setuptcp.f90:33:6:
```

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuptcp.o' failed
make[1]: [setuptcp.o] Error 1 (ignored)
/bin/rm -f setuptd2m.o setuptd2m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setuptd2m.f90
setuptd2m.f90:39:6:
```

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setuptd2m.o' failed
make[1]: [setuptd2m.o] Error 1 (ignored)
/bin/rm -f setupwnd10m.o setupwnd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupwnd10m.f90
setupwnd10m.f90:38:6:
```

```
    use mpeu_util, only: die,perr
    1
```

```
Fatal Error: Can't open module file â€˜mpeu_util.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupwnd10m.o' failed
```

```
make[1]: [setupwnd10m.o] Error 1 (ignored)
/bin/rm -f setupvwnd10m.o setupvwnd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupvwnd10m.f90
setupvwnd10m.f90:38:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupvwnd10m.o' failed
```

```
make[1]: [setupvwnd10m.o] Error 1 (ignored)
```

```
/bin/rm -f setupvis.o setupvis.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupvis.f90
setupvis.f90:45:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupvis.o' failed
```

```
make[1]: [setupvis.o] Error 1 (ignored)
```

```
/bin/rm -f setupw.o setupw.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c setupw.f90
setupw.f90:15:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupw.o' failed
```

```
make[1]: [setupw.o] Error 1 (ignored)
```

```
/bin/rm -f setupwspd10m.o setupwspd10m.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
setupwspd10m.f90
setupwspd10m.f90:40:6:
```

```
    use mpeu_util, only: die,perr
```

```
    1
```

```
Fatal Error: Can't open module file "mpeu_util.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'setupwspd10m.o' failed
```

```
make[1]: [setupwspd10m.o] Error 1 (ignored)
```

```
/bin/rm -f sfc_model.o sfc_model.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
sfc_model.f90
```

```
sfc_model.f90:92:10:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'sfc_model.o' failed
```

```
make[1]: [sfc_model.o] Error 1 (ignored)
```

```
/bin/rm -f simpin1.o simpin1.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c simpin1.f90
```

```
simpin1.f90:48:6:
```

```
    use kinds, only: r_kind,i_kind
```

```
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'simpin1.o' failed
```

```
make[1]: [simpin1.o] Error 1 (ignored)
```

```
/bin/rm -f simpin1_init.o simpin1_init.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```



```
simpin1_init.f90
simpin1_init.f90:32:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'simpin1_init.o' failed
```

```
make[1]: [simpin1_init.o] Error 1 (ignored)
```

```
/bin/rm -f smoothrf.o smoothrf.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
smoothrf.f90
```

```
smoothrf.f90:36:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'smoothrf.o' failed
```

```
make[1]: [smoothrf.o] Error 1 (ignored)
```

```
/bin/rm -f smoothwrf.o smoothwrf.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
smoothwrf.f90
```

```
smoothwrf.f90:30:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'smoothwrf.o' failed
```

```
make[1]: [smoothwrf.o] Error 1 (ignored)
```

```
/bin/rm -f smoothzrf.o smoothzrf.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
```

```
smoothzrf.f90
```

```
smoothzrf.f90:35:6:
```

```
    use kinds, only: r_kind,i_kind
    1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'smoothzrf.o' failed
make[1]: [smoothzrf.o] Error 1 (ignored)
/bin/rm -f sqrtmin.o sqrtmin.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c sqrtmin.f90

sqrtmin.f90:30:4:
```

```
use kinds, only: r_kind,i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'sqrtmin.o' failed
make[1]: [sqrtmin.o] Error 1 (ignored)
/bin/rm -f statsco.o statsco.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c statsco.f90

statsco.f90:42:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'statsco.o' failed
make[1]: [statsco.o] Error 1 (ignored)
/bin/rm -f statsconv.o statsconv.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIv3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
statsconv.f90
statsconv.f90:88:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'statsconv.o' failed
make[1]: [statsconv.o] Error 1 (ignored)
/bin/rm -f statsoz.o statsoz.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c statsoz.f90
```

statsoz.f90:37:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'statsoz.o' failed

make[1]: [statsoz.o] Error 1 (ignored)

/bin/rm -f statspcp.o statspcp.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
statspcp.f90
```

statspcp.f90:43:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'statspcp.o' failed

make[1]: [statspcp.o] Error 1 (ignored)

/bin/rm -f statsrad.o statsrad.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
statsrad.f90
```

statsrad.f90:44:6:

```
use kinds, only: r_kind,i_kind
```

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'statsrad.o' failed

make[1]: [statsrad.o] Error 1 (ignored)

/bin/rm -f stop1.o stop1.mod

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c stop1.f90
```

stop1.f90:25:6:

use kinds, only: i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'stop1.o' failed

make[1]: [stop1.o] Error 1 (ignored)

/bin/rm -f strong_bal_correction.o strong_bal_correction.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

strong_bal_correction.f90

strong_bal_correction.f90:61:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'strong_bal_correction.o' failed

make[1]: [strong_bal_correction.o] Error 1 (ignored)

/bin/rm -f strong_baldiag_inc.o strong_baldiag_inc.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

strong_baldiag_inc.f90

strong_baldiag_inc.f90:40:6:

use kinds, only: i_kind,r_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'strong_baldiag_inc.o' failed

make[1]: [strong_baldiag_inc.o] Error 1 (ignored)

/bin/rm -f stub_ensmod.o stub_ensmod.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c

stub_ensmod.f90

stub_ensmod.f90:19:7:

use kinds, only: r_kind

1

Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file

```
compilation terminated.
../dtc/configure.gsi:123: recipe for target 'stub_ensmod.o' failed
make[1]: [stub_ensmod.o] Error 1 (ignored)
cpp -P -D_REAL8_ -DWRF -DLINUX -DPGI -traditional-cpp stub_pertmod.F90 >
stub_pertmod.fpp
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
stub_pertmod.fpp
stub_pertmod.fpp:49:4:
```

```
use kinds, only: i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'stub_pertmod.o' failed
```

```
make[1]: [stub_pertmod.o] Error 1 (ignored)
```

```
/bin/rm -f stub_pertmod.fpp
```

```
/bin/rm -f stub_set_crtm_aerosol.o stub_set_crtm_aerosol.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stub_set_crtm_aerosol.f90
```

```
stub_set_crtm_aerosol.f90:40:6:
```

```
use kinds, only: i_kind,r_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stub_set_crtm_aerosol.o' failed
```

```
make[1]: [stub_set_crtm_aerosol.o] Error 1 (ignored)
```

```
/bin/rm -f stub_timermod.o stub_timermod.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
stub_timermod.f90
```

```
stub_timermod.f90:104:4:
```

```
use kinds, only : i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'stub_timermod.o' failed
```

```
make[1]: [stub_timermod.o] Error 1 (ignored)
```

```
/bin/rm -f test_obsens.o test_obsens.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
test_obsens.f90
test_obsens.f90:27:4:
```

```
use kinds, only: i_kind,r_quad
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'test_obsens.o' failed
```

```
make[1]: [test_obsens.o] Error 1 (ignored)
```

```
/bin/rm -f tintrp2a.o tintrp2a.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c
tintrp2a.f90
tintrp2a.f90:33:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tintrp2a.o' failed
```

```
make[1]: [tintrp2a.o] Error 1 (ignored)
```

```
/bin/rm -f tintrp3.o tintrp3.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noimplicit-exec -c tintrp3.f90
tintrp3.f90:30:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tintrp3.o' failed
```

```
make[1]: [tintrp3.o] Error 1 (ignored)
```

```
/bin/rm -f tpause.o tpause.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c tpause.f90
tpause.f90:41:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tpause.o' failed
```

```
make[1]: [tpause.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRP -DLINUX -DPGI -traditional-cpp tpause_t.F90 >
```

```
tpause_t.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
tpause_t.fpp
```

```
tpause_t.fpp:50:6:
```

```
use kinds, only: r_kind,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'tpause_t.o' failed
```

```
make[1]: [tpause_t.o] Error 1 (ignored)
```

```
/bin/rm -f tpause_t.fpp
```

```
/bin/rm -f tune_pbl_height.o tune_pbl_height.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
tune_pbl_height.f90
```

```
tune_pbl_height.f90:31:6:
```

```
use kinds, only: r_kind,r_single,r_double,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'tune_pbl_height.o' failed
```

```
make[1]: [tune_pbl_height.o] Error 1 (ignored)
```

```
/bin/rm -f turbl.o turbl.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
```

```
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c turbl.f90
```

```
turb1.f90:41:6:
```

```
use kinds,only: r_kind,i_kind
```

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'turb1.o' failed

make[1]: [turb1.o] Error 1 (ignored)

/bin/rm -f turb1_ad.o turb1_ad.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

turb1_ad.f90

turb1_ad.f90:40:6:

use constants, only: rd_over_cp,two,rd_over_g,half,zero,one,three,grav

1

Fatal Error: Can't open module file `~constants.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'turb1_ad.o' failed

make[1]: [turb1_ad.o] Error 1 (ignored)

/bin/rm -f turb1_tl.o turb1_tl.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

turb1_tl.f90

turb1_tl.f90:37:6:

use constants,only: rd_over_cp,two,rd_over_g,half,zero,one,three,grav

1

Fatal Error: Can't open module file `~constants.mod` for reading at (1): No
such file or directory
compilation terminated.

../dtc/configure.gsi:123: recipe for target 'turb1_tl.o' failed

make[1]: [turb1_tl.o] Error 1 (ignored)

/bin/rm -f tv_to_tsen.o tv_to_tsen.mod

mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check

-fconvert=big-endian -frecord-marker=4

-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include

-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c

tv_to_tsen.f90

tv_to_tsen.f90:28:6:

use kinds, only: r_kind,i_kind

1

Fatal Error: File `~kinds.mod` opened at (1) is not a GNU Fortran module file
compilation terminated.


```
../dtc/configure.gsi:123: recipe for target 'tv_to_tsen.o' failed
make[1]: [tv_to_tsen.o] Error 1 (ignored)
/bin/rm -f unfill_mass_grid2.o unfill_mass_grid2.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
unfill_mass_grid2.f90
unfill_mass_grid2.f90:30:6:
```

```
use kinds, only: r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'unfill_mass_grid2.o' failed
make[1]: [unfill_mass_grid2.o] Error 1 (ignored)
/bin/rm -f unfill_nmm_grid2.o unfill_nmm_grid2.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
unfill_nmm_grid2.f90
unfill_nmm_grid2.f90:42:6:
```

```
use kinds, only: r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'unfill_nmm_grid2.o' failed
make[1]: [unfill_nmm_grid2.o] Error 1 (ignored)
/bin/rm -f unhalf_nmm_grid2.o unhalf_nmm_grid2.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
unhalf_nmm_grid2.f90
unhalf_nmm_grid2.f90:39:6:
```

```
use kinds, only: r_single,i_kind
```

```
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'unhalf_nmm_grid2.o' failed
make[1]: [unhalf_nmm_grid2.o] Error 1 (ignored)
/bin/rm -f update_guess.o update_guess.mod
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
update_guess.f90
update_guess.f90:104:6:
```

```
use kinds, only: r_kind,i_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'update_guess.o' failed
```

```
make[1]: [update_guess.o] Error 1 (ignored)
```

```
cpp -P -D_REAL8_ -DWRFF -DLINUX -DPGI -traditional-cpp write_all.F90 >
write_all.fpp
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
write_all.fpp
```

```
write_all.fpp:28:6:
```

```
use kinds, only: i_kind,r_kind
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
makefile_DTC:102: recipe for target 'write_all.o' failed
```

```
make[1]: [write_all.o] Error 1 (ignored)
```

```
/bin/rm -f write_all.fpp
```

```
/bin/rm -f write_bkgvars_grid.o write_bkgvars_grid.mod
```

```
mpif90 -ffree-form -ffree-line-length-none -fno-second-underscore -fno-range-check
-fconvert=big-endian -frecord-marker=4
```

```
-J/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/comGSIV3.6_EnKFv1.2/dtc/include
```

```
-I/home/user/Build_WRF/LIBRARIES/netcdf/include -Wl,-noinhibit-exec -c
```

```
write_bkgvars_grid.f90
```

```
write_bkgvars_grid.f90:29:6:
```

```
use kinds, only: r_kind,i_kind,r_single
1
```

```
Fatal Error: File "kinds.mod" opened at (1) is not a GNU Fortran module file
compilation terminated.
```

```
../dtc/configure.gsi:123: recipe for target 'write_bkgvars_grid.o' failed
```

```
make[1]: [write_bkgvars_grid.o] Error 1 (ignored)
```

```
echo adjtest.o adjtest_obs.o adjust_cloudobs_mod.o aeroinfo.o aircraftinfo.o
```

```
aircraftobsqc.o anberror.o anberror.o aniso_ens_util.o anisofilter.o
```

```
anisofilter_glb.o antcorr_application.o antest_maps0.o antest_maps0_glb.o
```

```
atms_spatial_average_mod.o balmod.o berror.o bias_predictors.o bicg.o
```

```
bicglanczos.o bkerror.o bkgcov.o bkgvar.o bkgvar_rewgt.o blacklist.o blendmod.o
```

```
blockIO.o buddycheck_mod.o calc_fov_conical.o calc_fov_crosstrk.o calctends.o
```

calctends_ad.o calctends_tl.o calctends_no_ad.o calctends_no_tl.o chemmod.o
class_get_pseudo_enspers.o class_get_wrf_mass_enspers.o
class_get_wrf_nmm_enspers.o class_gfs_ensmod.o class_read_wrf_mass_files.o
class_read_wrf_mass_guess.o class_read_wrf_nmm_files.o class_read_wrf_nmm_guess.o
class_regional_io.o class_wrf_binary_interface.o class_wrf_netcdf_interface.o
class_wrwrfmassa.o class_wrwrfnmma.o clw_mod.o cloud_efr_mod.o cmaq_routines.o
co_mop_ak.o coinfo.o combine_radobs.o compact_diffs.o compute_derived.o
compute_fact10.o compute_qvar3d.o constants.o control2model.o control2state.o
control2model_ad.o control2state_ad.o control_vectors.o convb_ps.o convb_q.o
convb_t.o convb_uv.o converr.o converr_ps.o converr_pw.o converr_q.o converr_t.o
converr_uv.o convinfo.o convthin.o convthin_time.o correlated_obsmod.o
cplr_get_pseudo_enspers.o cplr_get_wrf_mass_enspers.o
cplr_get_wrf_nmm_enspers.o cplr_gfs_ensmod.o cplr_gfs_nstmod.o
cplr_read_wrf_mass_files.o cplr_read_wrf_mass_guess.o cplr_read_wrf_nmm_files.o
cplr_read_wrf_nmm_guess.o cplr_regional_io.o cplr_wrf_binary_interface.o
cplr_wrf_netcdf_interface.o cplr_wrwrfmassa.o cplr_wrwrfnmma.o crtm_interface.o
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cplr_get_wrf_nmm_enspers.o cplr_gfs_ensmod.o cplr_gfs_nstmod.o
cplr_read_wrf_mass_files.o cplr_read_wrf_mass_guess.o cplr_read_wrf_nmm_files.o
cplr_read_wrf_nmm_guess.o cplr_regional_io.o cplr_wrf_binary_interface.o
cplr_wrf_netcdf_interface.o cplr_wrwrffmassa.o cplr_wrwrfnmma.o crtm_interface.o
cwhydromod.o cvsection.o derivsmod.o deter_sfc_mod.o dtast.o egrid2agrid_mod.o
en_perts_io.o enorm_state.o ensctl2model.o ensctl2state.o ensctl2model_ad.o
ensctl2state_ad.o ens_spread_mod.o evaljgrad.o evaljo.o evalqlim.o
fgrid2agrid_mod.o fill_mass_grid2.o fill_nmm_grid2.o fpvsx_ad.o
general_commmvars_mod.o general_read_gfsatm.o general_read_nmm.o general_specmod.o
general_spectral_transforms.o general_sub2grid_mod.o general_tll2xy_mod.o
general_transform.o general_write_gfsatm.o gengrid_vars.o genqsat.o genstats_gps.o
gesinfo.o get_derivatives.o get_derivatives2.o get_gefs_enspers_dualres.o
get_gefs_for_regional.o get_nmm_enspers.o get_semimp_mats.o getcount_buf.o
getprs.o getsiga.o getuv.o getvvel.o gfs_stratosphere.o glbsoi.o grtest.o grdcrd.o
gridmod.o gscond_ad.o gsd_terrain_match_surfTobs.o gsdcloudanalysis.o
gsdcloudanalysis4gfs.o gsdcloudanalysis4NMMB.o gsd_update_mod.o gsi_4dvar.o
gsi_4dcouplermod.o gsi_bundlemod.o gsi_chemguess_mod.o gsi_enscouplermod.o
gsi_io.o gsi_metguess_mod.o gsi_nemsio_mod.o gsi_nstcouplermod.o gsi_unformatted.o
gsimain.o gsimod.o gsimod.o gsimod.o gsimod.o guess_grids.o half_nmm_grid2.o hilbert_curve.o
hybrid_ensemble_isotropic.o hybrid_ensemble_parameters.o inc2guess.o init_jcdfi.o
insitu_info.o intall.o intaod.o intcldch.o intco.o intdw.o intgps.o intgust.o
inthowv.o intjcm.o intjo.o intlag.o intlcbas.o intmitm.o intmxtm.o intoz.o
intpblh.o intpcp.o intpm2_5.o intpm10.o intpms1.o intps.o intpw.o intq.o intrad.o
intrap_msk.o intrp2a.o intrp3oz.o intrw.o intspd.o intsrw.o intsst.o intt.o
inttcamt.o inttcp.o inttd2m.o intuwnd10m.o intvwnd10m.o intvis.o intw.o
intwspd10m.o jcm.o jfunc.o jgrad.o kinds.o lag_fields.o lag_interp.o lag_traj.o
lagmod.o lanczos.o logcldch_to_cldch.o loglcbas_to_lcbas.o logvis_to_vis.o
looplimits.o m_aeroNode.o m_aeroNode.o m_berror_stats.o m_berror_stats_reg.o
m_cldchNode.o m_colvkNode.o m_cvgridLookup.o m_dgeevx.o m_distance.o m_dtime.o
m_dwNode.o m_extOzone.o m_find.o m_gpsNode.o m_gpsrhs.o m_gsiBiases.o m_gustNode.o
m_howvNode.o m_lagNode.o m_latlonRange.o m_lcbasNode.o m_mitmNode.o m_mxtmNode.o
m_o3lNode.o m_obsHeadBundle.o m_obsLList.o m_obsNode.o m_obsNodeTypeManager.o
m_obsdiagNode.o m_obsdiags.o m_ozNode.o m_pblhNode.o m_pcpNode.o m_pm10Node.o
m_pm2_5Node.o m_pmslNode.o m_psNode.o m_pwNode.o m_qNode.o m_radNode.o m_rerank.o
m_rhs.o m_rwNode.o m_sortind.o m_spdNode.o m_srwNode.o m_sstNode.o m_stats.o
m_tNode.o m_tcamtNode.o m_tcpNode.o m_td2mNode.o m_tick.o m_uniq.o m_uwnd10mNode.o
m_vwnd10mNode.o m_visNode.o m_wNode.o m_wspd10mNode.o mpeu_mpif.o mpeu_util.o
mod_nmm_to_a.o mod_strong.o mod_vtrans.o mod_wrfmass_to_a.o model_ad.o model_tl.o
mp_compact_diffs_mod1.o mp_compact_diffs_support.o mpimod.o mpl_allreduce.o
mpl_bcast.o native_endianness.o ncepgfs_ghg.o ncepgfs_io.o ncep_nems_io.o
netcdf_mod.o nlmsas_ad.o normal_rh_to_q.o nstio_module.o Nst_Var_ESMMod.o
obs_ferrscale.o obs_para.o obs_sensitivity.o obserr_allsky_mw.o observer.o
obsmod.o omegas_ad.o oneobmod.o ozinfo.o patch2grid_mod.o pcgsoi.o pcgsqrt.o
pcp_k.o pcpinfo.o penal.o phil.o phil1.o plib8.o polcarf.o prad_bias.o precond.o
precpd_ad.o prewgt.o prewgt_reg.o projmethod_support.o prt_guess.o psichi2uv_reg.o
psichi2uvt_reg.o q_diag.o qcm.o qnewton3.o radiance_mod.o radinfo.o raflib.o

```
rapidrefresh_cldsrf_mod.o rdgrbsst.o read_aerosol.o read_ahi.o read_airs.o
read_amsr2.o read_amsre.o read_anowbuf.o read_atms.o read_avhrr.o
read_avhrr_navy.o read_bufrtovs.o read_co.o read_cris.o read_diag.o read_files.o
read_fl_hdob.o read_gfs_ozone_for_regional.o read_gmi.o read_goesimg.o
read_goesimgr_skycover.o read_goesndr.o read_gps.o read_guess.o read_iasi.o
read_l2buf.o read_lag.o read_lidar.o read_Lightning.o read_mitm_mxtm.o
read_modsbuf.o read_nasa_larc.o read_nsstbuf.o read_NASA_LaRC_cloud.o read_obs.o
read_ozone.o read_pblh.o read_pcp.o read_prepbuf.o read_radar.o
read_radarref_mosaic.o read_rapidscat.o read_saphir.o read_satmar.o read_satwnd.o
read_seviri.o read_sfcwnd.o read_ssmi.o read_ssmis.o read_superwinds.o read_tcps.o
reorg_metar_cloud.o rfdpar.o rsearch.o rtlnc_version3.o satthin.o
set_crtm_aerosolmod.o set_crtm_cloudmod.o setupaod.o setupbend.o setupcldch.o
setupco.o setupdw.o setupgust.o setuphowv.o setuplag.o setuplcbas.o setupmitm.o
setupmxtm.o setupoz.o setuppblh.o setuppcp.o setuppm2_5.o setuppm10.o setuppms1.o
setupps.o setuppw.o setupq.o setuprad.o setupref.o setuprhsall.o setuprw.o
setupspd.o setupsrw.o setupsst.o setupst.o setupstcamt.o setupstcp.o setupstd2m.o
setupwnd10m.o setupvwnd10m.o setupvis.o setupw.o setupwspd10m.o sfc_model.o
sfcobsqc.o simpin1.o simpin1_init.o smooth_polcarf.o smoothrf.o smoothwrf.o
smoothzrf.o sqrtmin.o ssmis_spatial_average_mod.o sst_retrieval.o
control2model_ad.o ensctl2state_ad.o state_vectors.o statsco.o statsconv.o
statsoz.o statspcp.o statsrad.o stop1.o stpaod.o stpcalc.o stpcldch.o stpc.o
stpdw.o stpgps.o stpgust.o stpjcm.o stpjo.o stphowv.o stplcbas.o stpmitm.o
stpmxtm.o stpoz.o stppblh.o stppcp.o stppm2_5.o stppm10.o stppms1.o stpps.o
stppw.o stpq.o stprad.o stprw.o stpspd.o stpsrw.o stpsst.o stpt.o stptcamt.o
stptcp.o stptd2m.o stpuwnd10m.o stpvwnd10m.o stpvis.o stpw.o stpwspd10m.o
strong_bal_correction.o strong_baldiag_inc.o strong_fast_global_mod.o
stub_ensmod.o stub_pertmod.o stub_set_crtm_aerosol.o stub_timermod.o
sub2fslab_mod.o support_2dvar.o tendsmod.o test_obsens.o tcv_mod.o timermod.o
tintrp2a.o tintrp3.o tpause.o tpause_t.o tune_pbl_height.o turb1.o turb1_ad.o
turb1_t1.o turb1mod.o tv_to_tsen.o unfill_mass_grid2.o unfill_nmm_grid2.o
unhalf_nmm_grid2.o update_guess.o wind_fft.o wrf_mass_guess_mod.o wrf_params_mod.o
write_all.o write_bkgvars_grid.o xhat_vordivmod.o zrnmi_mod.o
ar: `u' modifier ignored since `D' is the default (see `U')
ar: creating libgsi.a
ar: adjtest.o: No such file or directory
makefile_DTC:88: recipe for target 'libgsi.a' failed
make[1]: [libgsi.a] Error 1 (ignored)
mpif90 -ffree-form -ffree-line-length-none -Wl,-noinhibit-exec -fopenmp -o gsi.exe
gsimain.o libgsi.a -L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lcrtm
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lsfcio_i4r4
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lsigio_i4r4
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lnemsio
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lw3nco_i4r8 -lw3emc_i4r8
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lbacio
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lbuf.o_i4r8
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lsp_i4r8
/home/user/Build_WRF/WRF/frame/module_internal_header_util.o
/home/user/Build_WRF/WRF/frame/pack_utils.o
/home/user/Build_WRF/WRF/frame/module_machine.o
/home/user/Build_WRF/WRF/main/libwrflib.a
```



```
-L/home/user/Build_WRF/WRF/external/io_int -lwr fio_int
-L/home/user/Build_WRF/WRF/external/io_netcdf -lwr fio_nf
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib -lnetcdff -lnetcdf
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib
-L/home/user/Build_WRF/LIBRARIES/lapack -llapack -lblas
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lprepdecode_i4r8
gfortran: error: gsimain.o: No such file or directory
gfortran: error: libgsi.a: No such file or directory
makefile_DTC:92: recipe for target 'gsi.exe' failed
make[1]: [gsi.exe] Error 1 (ignored)
cp gsi.exe /home/user/comGSIV3.6_EnKFv1.2/dtc/run
cp: cannot stat 'gsi.exe': No such file or directory
makefile_DTC:92: recipe for target 'gsi.exe' failed
make[1]: [gsi.exe] Error 1 (ignored)
make[1]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src'
( cd ../src/enkf; ls; echo "Making all in `pwd`" ; cp Makefile_WRF Makefile; \
cp Makefile.dependency_WRF Makefile.dependency; cp Makefile.conf_WRF
Makefile.conf; make ) ;
CMakeLists.txt
Makefile
Makefile.conf
Makefile.conf.cray
Makefile.conf.jet
Makefile.conf.jet.dtc
Makefile.conf.nco
Makefile.conf.theia
Makefile.conf.wcoss
Makefile.conf.yellowstone
Makefile.conf.yellowstone.dtc
Makefile.conf.zeus
Makefile.conf.zeus.dtc
Makefile.conf_GFS
Makefile.conf_WRF
Makefile.dependency
Makefile.dependency_GFS
Makefile.dependency_WRF
Makefile.src
Makefile_GFS
Makefile_WRF
README
README.shmem
configure
covlocal.f90
enkf.f90
enkf_main.f90
enkf_obsmod.f90
fftpack.f90
genqsat1.f90
gridinfo_gfs.f90
gridinfo_nmmb.f90
```

```
gridinfo_wrf.f90
gridio_gfs.f90
gridio_nmmb.f90
gridio_wrf.f90
inflation.f90
innovstats.f90
kdtree2.f90
letkf.F90
loadbal.f90
log.make.wrf_enkf
mpi_readobs.f90
mpisetup.F90
netcdf_io_wrf.f90
params.f90
quicksort.f90
radbias.f90
read_locinfo.f90
readconvobs.f90
readozobs.f90
readsatobs.f90
reducedgrid.f90
rnorm.f90
smooth_gfs.f90
smooth_nmmb.f90
smooth_wrf.f90
sorting.f90
specmod.f90
specmod_shtns.f90
specmod_splib.f90
statevec.f90
wrf_enkf
write_logfile.f90
Making all in /home/user/comGSIV3.6_EnKFv1.2/src/enkf
make[1]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
make[2]: Entering directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
```

```
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
make[3]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
```

```
==== COMPILE =====
```

```
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
```

```
---> Compiling mpisetup.F90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpisetup.F90
mpisetup.F90:42:4:
```

```
use mpimod, only : mpi_comm_world,npe,mype
```

```
1
```

```
Fatal Error: Can't open module file ~mpimod.mod™ for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:250: recipe for target 'mpisetup.o' failed
```

```
make[3]: [mpisetup.o] Error 1 (ignored)
```

```
---> Compiling params.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c params.f90
params.f90:31:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file ~mpisetup.mod™ for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:255: recipe for target 'params.o' failed
```

```
make[3]: [params.o] Error 1 (ignored)
```

```
---> Compiling covlocal.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c covlocal.f90
covlocal.f90:76:5:
```

```
use params, only: latboundpp, latboundpm, latboundmp, latboundmm, delatinv
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:255: recipe for target 'covlocal.o' failed
```

```
make[3]: [covlocal.o] Error 1 (ignored)
```

```
---> Compiling rnorm.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c rnorm.f90
```

```
---> Compiling sorting.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c sorting.f90
```

```
---> Compiling reducedgrid.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c reducedgrid.f90
```

```
---> Compiling specmod_splib.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c specmod_splib.f90
```

```
---> Compiling netcdf_io_wrf.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c netcdf_io_wrf.f90
netcdf_io_wrf.f90:9:8:
```

```
use netcdf_mod, only: nc_check
1
```

```
Fatal Error: Can't open module file "netcdf_mod.mod" for reading at (1): No
such file or directory
```

```
compilation terminated.
```

```
Makefile:255: recipe for target 'netcdf_io_wrf.o' failed
```

```
make[3]: [netcdf_io_wrf.o] Error 1 (ignored)
```

```
---> Compiling readozobs.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readozobs.f90
readozobs.f90:26:4:
```

```
use params, only: nsats_oz,sattypes_oz,npefiles
```

```
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'readozobs.o' failed
```

```
make[3]: [readozobs.o] Error 1 (ignored)
```

```
---> Compiling readsatobs.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readsatobs.f90
readsatobs.f90:30:4:
```

```
use read_diag, only:
```

```
diag_data_fix_list,diag_header_fix_list,diag_header_chan_list, &
```

```
1
```

```
Fatal Error: Can't open module file "read_diag.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'readsatobs.o' failed
```

```
make[3]: [readsatobs.o] Error 1 (ignored)
```

```
---> Compiling readconvobs.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readconvobs.f90
readconvobs.f90:25:4:
```

```
use constants, only: one,zero
```

```
1
```

```
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'readconvobs.o' failed
```

```
make[3]: [readconvobs.o] Error 1 (ignored)
```

```
---> Compiling mpi_readobs.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpi_readobs.f90
mpi_readobs.f90:34:4:
```

```
use radinfo, only: npred
```

```
1
```

```
Fatal Error: Can't open module file â€˜radinfo.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'mpi_readobs.o' failed
make[3]: [mpi_readobs.o] Error 1 (ignored)
```

```
---> Compiling enkf_obsmod.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_obsmod.f90
enkf_obsmod.f90:99:4:
```

```
use mpisetup
1
```

```
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf_obsmod.o' failed
make[3]: [enkf_obsmod.o] Error 1 (ignored)
```

```
---> Compiling gridinfo_wrf.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridinfo_wrf.f90
gridinfo_wrf.f90:33:6:
```

```
use constants, only: rearth_equator, omega, pi, deg2rad, zero, rad2deg, &
1
```

```
Fatal Error: Can't open module file â€˜constants.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'gridinfo_wrf.o' failed
make[3]: [gridinfo_wrf.o] Error 1 (ignored)
```

```
---> Compiling kdtree2.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c kdtree2.f90
```

```
---> Compiling loadbal.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c loadbal.f90
loadbal.f90:85:4:
```

```
use mpisetup
1
```

```
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```

Makefile:255: recipe for target 'loadbal.o' failed
make[3]: [loadbal.o] Error 1 (ignored)

---> Compiling radbias.f90

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c radbias.f90
radbias.f90:43:4:
```

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such file or directory
compilation terminated.

Makefile:255: recipe for target 'radbias.o' failed
make[3]: [radbias.o] Error 1 (ignored)

---> Compiling gridio_wrf.f90

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridio_wrf.f90
gridio_wrf.f90:29:6:
```

use gridinfo, only: dimensions, gridvarstring, npts, cross2dot, dot2cross

1

Fatal Error: Can't open module file "gridinfo.mod" for reading at (1): No such file or directory
compilation terminated.

Makefile:255: recipe for target 'gridio_wrf.o' failed
make[3]: [gridio_wrf.o] Error 1 (ignored)

---> Compiling statevec.f90

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c statevec.f90
statevec.f90:49:4:
```

use gridio, only: readgriddata, writegriddata

1

Fatal Error: Can't open module file "gridio.mod" for reading at (1): No such file or directory
compilation terminated.

Makefile:255: recipe for target 'statevec.o' failed
make[3]: [statevec.o] Error 1 (ignored)

---> Compiling enkf.f90

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf.f90
enkf.f90:94:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf.o' failed
make[3]: [enkf.o] Error 1 (ignored)
```

```
---> Compiling smooth_wrf.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c smooth_wrf.f90
smooth_wrf.f90:3:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'smooth_wrf.o' failed
make[3]: [smooth_wrf.o] Error 1 (ignored)
```

```
---> Compiling inflation.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c inflation.f90
inflation.f90:48:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'inflation.o' failed
make[3]: [inflation.o] Error 1 (ignored)
```

```
---> Compiling letkf.F90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c letkf.F90
letkf.F90:80:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:250: recipe for target 'letkf.o' failed
make[3]: [letkf.o] Error 1 (ignored)
```



```
---> Compiling innovstats.f90
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c innovstats.f90
innovstats.f90:25:4:
```

```
use enkf_obsmod, only: oberrvar,ob,ensmean_ob,obtype,nobs_conv,nobs_oz,&
1
```

```
Fatal Error: Can't open module file "enkf_obsmod.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'innovstats.o' failed
make[3]: [innovstats.o] Error 1 (ignored)
```

```
---> Compiling enkf_main.f90
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_main.f90
enkf_main.f90:71:5:
```

```
use params, only : read_namelist,letkf_flag,readin_localization,lupd_satbiasc,&
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'enkf_main.o' failed
make[3]: [enkf_main.o] Error 1 (ignored)
```

```
---> Compiling fftpack.f90
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c fftpack.f90
```

```
---> Compiling genqsat1.f90
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c genqsat1.f90
genqsat1.f90:47:6:
```

```
use constants, only: xai,tmix,xb,omeps,eps,xbi,one,zero,&
1
```

```
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'genqsat1.o' failed
make[3]: [genqsat1.o] Error 1 (ignored)
make[3]: 'gridinfo_wrf.o' is up to date.
make[3]: 'gridio_wrf.o' is up to date.
make[3]: 'inflation.o' is up to date.
```

```
make[3]: 'innovstats.o' is up to date.
make[3]: 'kdtree2.o' is up to date.
make[3]: 'letkf.o' is up to date.
make[3]: 'loadbal.o' is up to date.
make[3]: 'mpi_readobs.o' is up to date.
make[3]: 'mpisetup.o' is up to date.
make[3]: 'netcdf_io_wrf.o' is up to date.
make[3]: 'enkf_obsmod.o' is up to date.
make[3]: 'params.o' is up to date.
make[3]: 'sorting.o' is up to date.
make[3]: 'radbias.o' is up to date.
```

```
---> Compiling read_locinfo.f90
```

```
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c read_locinfo.f90
read_locinfo.f90:4:7:
```

```
use params, only : nlevs, corrlengthnh, corrlengthtr, corrlengthsh, letkf_flag
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'read_locinfo.o' failed
```

```
make[3]: [read_locinfo.o] Error 1 (ignored)
```

```
make[3]: 'readconvoobs.o' is up to date.
make[3]: 'readozobs.o' is up to date.
make[3]: 'readsatobs.o' is up to date.
make[3]: 'reducedgrid.o' is up to date.
make[3]: 'rnorm.o' is up to date.
make[3]: 'smooth_wrf.o' is up to date.
```

```
---> Compiling specmod.f90
```

```
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c specmod.f90
make[3]: 'statevec.o' is up to date.
```

```
---> Compiling write_logfile.f90
```

```
mpif90 -DWRF -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c write_logfile.f90
write_logfile.f90:2:5:
```

```
use params, only : datapath
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'write_logfile.o' failed
```

```
make[3]: [write_logfile.o] Error 1 (ignored)
make[3]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
```

```
==== LINK =====
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
```

```
---> Compiling mpisetup.F90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpisetup.F90
mpisetup.F90:42:4:
```

```
use mpimod, only : mpi_comm_world,npe,mype
1
Fatal Error: Can't open module file "mpimod.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:250: recipe for target 'mpisetup.o' failed
make[3]: [mpisetup.o] Error 1 (ignored)
```

```
---> Compiling params.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c params.f90
params.f90:31:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'params.o' failed
make[3]: [params.o] Error 1 (ignored)
```

```
---> Compiling covlocal.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c covlocal.f90
covlocal.f90:76:5:
```

```
use params, only: latboundpp,latboundpm,latboundmp,latboundmm, delatinv
1
```

Fatal Error: Can't open module file `~params.mod`™ for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'covlocal.o' failed
make[3]: [covlocal.o] Error 1 (ignored)

---> Compiling netcdf_io_wrf.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c netcdf_io_wrf.f90
netcdf_io_wrf.f90:9:8:

use netcdf_mod, only: nc_check
1

Fatal Error: Can't open module file `~netcdf_mod.mod`™ for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'netcdf_io_wrf.o' failed
make[3]: [netcdf_io_wrf.o] Error 1 (ignored)

---> Compiling readozobs.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c readozobs.f90
readozobs.f90:26:4:

use params, only: nsats_oz,sattypes_oz,npefiles
1

Fatal Error: Can't open module file `~params.mod`™ for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'readozobs.o' failed
make[3]: [readozobs.o] Error 1 (ignored)

---> Compiling readsatobs.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c readsatobs.f90
readsatobs.f90:30:4:

use read_diag, only:
diag_data_fix_list,diag_header_fix_list,diag_header_chan_list, &
1

Fatal Error: Can't open module file `~read_diag.mod`™ for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'readsatobs.o' failed
make[3]: [readsatobs.o] Error 1 (ignored)

---> Compiling readconvobs.f90

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readconvobs.f90
readconvobs.f90:25:4:
```

```
use constants, only: one,zero
```

```
1
```

```
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'readconvobs.o' failed
```

```
make[3]: [readconvobs.o] Error 1 (ignored)
```

```
---> Compiling mpi_readobs.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpi_readobs.f90
mpi_readobs.f90:34:4:
```

```
use radinfo, only: npred
```

```
1
```

```
Fatal Error: Can't open module file "radinfo.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'mpi_readobs.o' failed
```

```
make[3]: [mpi_readobs.o] Error 1 (ignored)
```

```
---> Compiling enkf_obsmod.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_obsmod.f90
enkf_obsmod.f90:99:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'enkf_obsmod.o' failed
```

```
make[3]: [enkf_obsmod.o] Error 1 (ignored)
```

```
---> Compiling gridinfo_wrf.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridinfo_wrf.f90
gridinfo_wrf.f90:33:6:
```

```
use constants, only: rearth_equator, omega, pi, deg2rad, zero, rad2deg, &
```

```
1
```

```
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
```

```
such file or directory
compilation terminated.
Makefile:255: recipe for target 'gridinfo_wrf.o' failed
make[3]: [gridinfo_wrf.o] Error 1 (ignored)
```

```
---> Compiling loadbal.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c loadbal.f90
loadbal.f90:85:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'loadbal.o' failed
make[3]: [loadbal.o] Error 1 (ignored)
```

```
---> Compiling radbias.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c radbias.f90
radbias.f90:43:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'radbias.o' failed
make[3]: [radbias.o] Error 1 (ignored)
```

```
---> Compiling gridio_wrf.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridio_wrf.f90
gridio_wrf.f90:29:6:
```

```
use gridinfo, only: dimensions, gridvarstring, npts, cross2dot, dot2cross
1
Fatal Error: Can't open module file "gridinfo.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'gridio_wrf.o' failed
make[3]: [gridio_wrf.o] Error 1 (ignored)
```

```
---> Compiling statevec.f90
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
```

```
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c statevec.f90
statevec.f90:49:4:
```

```
use gridio, only: readgriddata, writegriddata
```

```
1
```

```
Fatal Error: Can't open module file "gridio.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'statevec.o' failed
```

```
make[3]: [statevec.o] Error 1 (ignored)
```

```
---> Compiling enkf.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf.f90
enkf.f90:94:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'enkf.o' failed
```

```
make[3]: [enkf.o] Error 1 (ignored)
```

```
---> Compiling smooth_wrf.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c smooth_wrf.f90
smooth_wrf.f90:3:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'smooth_wrf.o' failed
```

```
make[3]: [smooth_wrf.o] Error 1 (ignored)
```

```
---> Compiling inflation.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c inflation.f90
inflation.f90:48:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
```

Makefile:255: recipe for target 'inflation.o' failed
make[3]: [inflation.o] Error 1 (ignored)

---> Compiling letkf.F90
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c letkf.F90
letkf.F90:80:4:

use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such file or directory
compilation terminated.
Makefile:250: recipe for target 'letkf.o' failed
make[3]: [letkf.o] Error 1 (ignored)

---> Compiling innovstats.f90
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c innovstats.f90
innovstats.f90:25:4:

use enkf_obsmod, only: oberrvar,ob,ensmean_ob,obtype,nobs_conv,nobs_oz,&
1
Fatal Error: Can't open module file "enkf_obsmod.mod" for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'innovstats.o' failed
make[3]: [innovstats.o] Error 1 (ignored)

---> Compiling enkf_main.f90
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_main.f90
enkf_main.f90:71:5:

use params, only : read_namelist,letkf_flag,readin_localization,lupd_satbiasc,&
1
Fatal Error: Can't open module file "params.mod" for reading at (1): No such file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf_main.o' failed
make[3]: [enkf_main.o] Error 1 (ignored)

---> Compiling genqsat1.f90
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c genqsat1.f90
genqsat1.f90:47:6:


```
use constants, only: xai,tmix,xb,omeps,eps,xbi,one,zero,&
1
```

```
Fatal Error: Can't open module file â€˜constants.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'genqsat1.o' failed
make[3]: [genqsat1.o] Error 1 (ignored)
```

```
---> Compiling read_locinfo.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c read_locinfo.f90
read_locinfo.f90:4:7:
```

```
use params, only : nlevs,corrlengthnh,corrlengthtr,corrlengthsh,letkf_flag
1
```

```
Fatal Error: Can't open module file â€˜params.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'read_locinfo.o' failed
make[3]: [read_locinfo.o] Error 1 (ignored)
```

```
---> Compiling write_logfile.f90
```

```
mpif90 -DWRP -I ./ -I /home/user/comGSIV3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c write_logfile.f90
write_logfile.f90:2:5:
```

```
use params, only : datapath
1
```

```
Fatal Error: Can't open module file â€˜params.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'write_logfile.o' failed
make[3]: [write_logfile.o] Error 1 (ignored)
```

```
mpif90 covlocal.o enkf.o enkf_main.o fftpack.o genqsat1.o gridinfo_wrf.o
gridio_wrf.o inflation.o innovstats.o kdtree2.o letkf.o loadbal.o mpi_readobs.o
mpisetup.o netcdf_io_wrf.o enkf_obsmod.o params.o sorting.o radbias.o
read_locinfo.o readconvoobs.o readozobs.o readsatobs.o reducedgrid.o rnorm.o
smooth_wrf.o specmod.o statevec.o write_logfile.o ../antcorr_application.o
../blockIO.o ../kinds.o ../mpeu_mpf.o ../nstio_module.o ../wrf_params_mod.o
-L/home/user/comGSIV3.6_EnKFv1.2/dtc/lib -lsp_i4r8 -lsigio_i4r4 -lsfcio_i4r4
-lnemsio -lbacio -lw3nco_i4r8 -lbufr_i4r8 -lw3emc_i4r8 -lcrtm
/home/user/Build_WRF/WRF/external/io_int/libwrfio_int.a
/home/user/Build_WRF/WRF/external/io_netcdf/libwrfio_nf.a
/home/user/Build_WRF/WRF/frame/pack_utils.o
/home/user/Build_WRF/WRF/frame/module_machine.o
/home/user/Build_WRF/WRF/frame/module_driver_constants.o
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib -lnetcdf -lnetcdf
```

```
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib
-L/home/user/Build_WRF/LIBRARIES/lapack -llapack -lblas -fopenmp -o wrf_enkf
gfortran: error: covlocal.o: No such file or directory
gfortran: error: enkf.o: No such file or directory
gfortran: error: enkf_main.o: No such file or directory
gfortran: error: gensat1.o: No such file or directory
gfortran: error: gridinfo_wrf.o: No such file or directory
gfortran: error: gridio_wrf.o: No such file or directory
gfortran: error: inflation.o: No such file or directory
gfortran: error: innovstats.o: No such file or directory
gfortran: error: letkf.o: No such file or directory
gfortran: error: loadbal.o: No such file or directory
gfortran: error: mpi_readobs.o: No such file or directory
gfortran: error: mpisetup.o: No such file or directory
gfortran: error: netcdf_io_wrf.o: No such file or directory
gfortran: error: enkf_obsmod.o: No such file or directory
gfortran: error: params.o: No such file or directory
gfortran: error: radbias.o: No such file or directory
gfortran: error: read_locinfo.o: No such file or directory
gfortran: error: readconvobs.o: No such file or directory
gfortran: error: readozobs.o: No such file or directory
gfortran: error: readsatobs.o: No such file or directory
gfortran: error: smooth_wrf.o: No such file or directory
gfortran: error: statevec.o: No such file or directory
gfortran: error: write_logfile.o: No such file or directory
Makefile:283: recipe for target 'wrf_enkf' failed
make[3]: [wrf_enkf] Error 1 (ignored)
make[3]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
make[1]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
( cd ../src/enkf; ls; echo "Making all in `pwd`" ; cp Makefile_GFS Makefile; \
  cp Makefile.dependency_GFS Makefile.dependency; cp Makefile.conf_GFS
Makefile.conf; make ) ;
CMakeLists.txt
Makefile
Makefile.conf
Makefile.conf.cray
Makefile.conf.jet
Makefile.conf.jet.dtc
Makefile.conf.nco
Makefile.conf.theia
Makefile.conf.wcoss
Makefile.conf.yellowstone
Makefile.conf.yellowstone.dtc
Makefile.conf.zeus
Makefile.conf.zeus.dtc
Makefile.conf_GFS
Makefile.conf_WRF
Makefile.dependency
Makefile.dependency_GFS
```

Makefile.dependency_WRF
Makefile.src
Makefile_GFS
Makefile_WRF
README
README.shmem
configure
covlocal.f90
enkf.f90
enkf_main.f90
enkf_obsmod.f90
fftpack.f90
fftpack.o
genqsat1.f90
gridinfo_gfs.f90
gridinfo_nmmb.f90
gridinfo_wrf.f90
gridio_gfs.f90
gridio_nmmb.f90
gridio_wrf.f90
inflation.f90
innovstats.f90
kdtree2.f90
kdtree2.o
kdtree2_module.mod
kdtree2_precision_module.mod
kdtree2_priority_queue_module.mod
letkf.F90
loadbal.f90
log.make.wrf_enkf
mpi_readobs.f90
mpisetup.F90
netcdf_io_wrf.f90
params.f90
quicksort.f90
radbias.f90
random_normal.mod
read_locinfo.f90
readconvobs.f90
readozobs.f90
readsatobs.f90
reducedgrid.f90
reducedgrid.o
reducedgrid_mod.mod
rnorm.f90
rnorm.o
smooth_gfs.f90
smooth_nmmb.f90
smooth_wrf.f90
sorting.f90

```
sorting.mod
sorting.o
specmod.f90
specmod.mod
specmod.o
specmod_shtns.f90
specmod_splib.f90
specmod_splib.o
statevec.f90
wrf_enkf
write_logfile.f90
Making all in /home/user/comGSiv3.6_EnKFv1.2/src/enkf
make[1]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
make[2]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'

### NO LOG FILE ###
make[4]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
```

```
==== CLEAN =====
/bin/rm -f global_enkf *.o *.mod *.MOD *.lst *.a *.x *__genmod*
/bin/rm -f loadmap.txt log.make.global_enkf
make -i -r -f Makefile doclean
make[5]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
/bin/rm -f *.tex *.dvi *.aux *.toc *.log *.ps *.pdf
make[5]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
make[4]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
make[3]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
```

```
==== COMPILE =====
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
.././dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
.././dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
.././dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
.././dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
```

```
---> Compiling mpisetup.F90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpisetup.F90
mpisetup.F90:42:4:
```

```
use mpimod, only : mpi_comm_world,npe,mype
1
Fatal Error: Can't open module file "mpimod.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:250: recipe for target 'mpisetup.o' failed
make[3]: [mpisetup.o] Error 1 (ignored)
```

```
---> Compiling params.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c params.f90
params.f90:31:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'params.o' failed
make[3]: [params.o] Error 1 (ignored)
```

```
---> Compiling covlocal.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c covlocal.f90
covlocal.f90:76:5:
```

```
use params, only: latboundpp, latboundpm, latboundmp, latboundmm, delatinv
1
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'covlocal.o' failed
make[3]: [covlocal.o] Error 1 (ignored)
```

```
---> Compiling rnorm.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c rnorm.f90
```

```
---> Compiling sorting.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c sorting.f90
```

```
---> Compiling reducedgrid.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c reducedgrid.f90
```

```
---> Compiling specmod_splib.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c specmod_splib.f90
```

```
---> Compiling gridinfo_gfs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridinfo_gfs.f90
gridinfo_gfs.f90:47:4:
```

```
use mpisetup, only: nproc, mpi_integer, mpi_real4, mpi_comm_world
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'gridinfo_gfs.o' failed
make[3]: [gridinfo_gfs.o] Error 1 (ignored)
```

```
---> Compiling kdtree2.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c kdtree2.f90
```

```
---> Compiling readozobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readozobs.f90
readozobs.f90:26:4:
```

```
use params, only: nsats_oz,sattypes_oz,npefiles
1
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'readozobs.o' failed
make[3]: [readozobs.o] Error 1 (ignored)
```

```
---> Compiling readsatobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readsatobs.f90
readsatobs.f90:30:4:
```

```
use read_diag, only:
diag_data_fix_list,diag_header_fix_list,diag_header_chan_list, &
1
Fatal Error: Can't open module file "read_diag.mod" for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'readsatobs.o' failed
make[3]: [readsatobs.o] Error 1 (ignored)
```

```
---> Compiling readconvobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readconvobs.f90
readconvobs.f90:25:4:
```

```
use constants, only: one,zero
1
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
```

compilation terminated.

Makefile:255: recipe for target 'readconvobs.o' failed
make[3]: [readconvobs.o] Error 1 (ignored)

---> Compiling mpi_readobs.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpi_readobs.f90
mpi_readobs.f90:34:4:

use radinfo, only: npred

1

Fatal Error: Can't open module file "radinfo.mod" for reading at (1): No such
file or directory

compilation terminated.

Makefile:255: recipe for target 'mpi_readobs.o' failed
make[3]: [mpi_readobs.o] Error 1 (ignored)

---> Compiling enkf_obsmod.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_obsmod.f90
enkf_obsmod.f90:99:4:

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory

compilation terminated.

Makefile:255: recipe for target 'enkf_obsmod.o' failed
make[3]: [enkf_obsmod.o] Error 1 (ignored)

---> Compiling loadbal.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c loadbal.f90
loadbal.f90:85:4:

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory

compilation terminated.

Makefile:255: recipe for target 'loadbal.o' failed
make[3]: [loadbal.o] Error 1 (ignored)

---> Compiling radbias.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c radbias.f90

radbias.f90:43:4:

use mpisetup

1

Fatal Error: Can't open module file `~mpisetup.mod`™ for reading at (1): No such file or directory

compilation terminated.

Makefile:255: recipe for target 'radbias.o' failed

make[3]: [radbias.o] Error 1 (ignored)

---> Compiling gridio_gfs.f90

mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridio_gfs.f90
gridio_gfs.f90:34:5:

use constants, only: zero,one,cp,fv,rd,grav,zero

1

Fatal Error: Can't open module file `~constants.mod`™ for reading at (1): No such file or directory

compilation terminated.

Makefile:255: recipe for target 'gridio_gfs.o' failed

make[3]: [gridio_gfs.o] Error 1 (ignored)

---> Compiling statevec.f90

mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c statevec.f90
statevec.f90:49:4:

use gridio, only: readgriddata, writegriddata

1

Fatal Error: Can't open module file `~gridio.mod`™ for reading at (1): No such file or directory

compilation terminated.

Makefile:255: recipe for target 'statevec.o' failed

make[3]: [statevec.o] Error 1 (ignored)

---> Compiling enkf.f90

mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I /home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore -fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf.f90
enkf.f90:94:4:

use mpisetup

1

Fatal Error: Can't open module file `~mpisetup.mod`™ for reading at (1): No such file or directory

compilation terminated.

Makefile:255: recipe for target 'enkf.o' failed

make[3]: [enkf.o] Error 1 (ignored)

```
---> Compiling smooth_gfs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c smooth_gfs.f90
smooth_gfs.f90:7:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:255: recipe for target 'smooth_gfs.o' failed
```

```
make[3]: [smooth_gfs.o] Error 1 (ignored)
```

```
---> Compiling inflation.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c inflation.f90
inflation.f90:48:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:255: recipe for target 'inflation.o' failed
```

```
make[3]: [inflation.o] Error 1 (ignored)
```

```
---> Compiling letkf.F90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c letkf.F90
letkf.F90:80:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
```

```
compilation terminated.
```

```
Makefile:250: recipe for target 'letkf.o' failed
```

```
make[3]: [letkf.o] Error 1 (ignored)
```

```
---> Compiling innovstats.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c innovstats.f90
innovstats.f90:25:4:
```

```
use enkf_obsmod, only: oberrvar,ob,ensmean_ob,obtype,nobs_conv,nobs_oz,&
1
Fatal Error: Can't open module file â€˜~enkf_obsmod.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'innovstats.o' failed
make[3]: [innovstats.o] Error 1 (ignored)
```

```
---> Compiling enkf_main.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_main.f90
enkf_main.f90:71:5:
```

```
use params, only : read_namelist,letkf_flag,readin_localization,lupd_satbiase,&
1
Fatal Error: Can't open module file â€˜~params.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf_main.o' failed
make[3]: [enkf_main.o] Error 1 (ignored)
```

```
---> Compiling fftpack.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c fftpack.f90
```

```
---> Compiling genqsat1.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c genqsat1.f90
genqsat1.f90:47:6:
```

```
use constants, only: xai,tmix,xb,omeps,eps,xbi,one,zero,&
1
Fatal Error: Can't open module file â€˜~constants.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'genqsat1.o' failed
make[3]: [genqsat1.o] Error 1 (ignored)
make[3]: 'gridinfo_gfs.o' is up to date.
make[3]: 'gridio_gfs.o' is up to date.
make[3]: 'inflation.o' is up to date.
make[3]: 'innovstats.o' is up to date.
make[3]: 'kdtree2.o' is up to date.
make[3]: 'letkf.o' is up to date.
make[3]: 'loadbal.o' is up to date.
make[3]: 'mpi_readobs.o' is up to date.
make[3]: 'mpisetup.o' is up to date.
```

```
---> Compiling netcdf_io_wrf.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c netcdf_io_wrf.f90
netcdf_io_wrf.f90:9:8:
```

```
    use netcdf_mod, only: nc_check
    1
```

```
Fatal Error: Can't open module file "netcdf_mod.mod" for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'netcdf_io_wrf.o' failed
make[3]: [netcdf_io_wrf.o] Error 1 (ignored)
make[3]: 'enkf_obsmod.o' is up to date.
make[3]: 'params.o' is up to date.
make[3]: 'sorting.o' is up to date.
make[3]: 'radbias.o' is up to date.
```

```
---> Compiling read_locinfo.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c read_locinfo.f90
read_locinfo.f90:4:7:
```

```
    use params, only : nlevs, corrlengthnh, corrlengthtr, corrlengthsh, letkf_flag
    1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'read_locinfo.o' failed
make[3]: [read_locinfo.o] Error 1 (ignored)
make[3]: 'readconvobs.o' is up to date.
make[3]: 'readozobs.o' is up to date.
make[3]: 'readsatobs.o' is up to date.
make[3]: 'reducedgrid.o' is up to date.
make[3]: 'rnorm.o' is up to date.
make[3]: 'smooth_gfs.o' is up to date.
```

```
---> Compiling specmod.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c specmod.f90
make[3]: 'statevec.o' is up to date.
```

```
---> Compiling write_logfile.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c write_logfile.f90
write_logfile.f90:2:5:
```

```
use params, only : datapath
1
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'write_logfile.o' failed
make[3]: [write_logfile.o] Error 1 (ignored)
make[3]: Leaving directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
```

```
==== LINK =====
make[3]: Entering directory '/home/user/comGSiv3.6_EnKFv1.2/src/enkf'
Makefile:250: warning: overriding recipe for target '.F90.o'
../../dtc/configure.gsi:117: warning: ignoring old recipe for target '.F90.o'
Makefile:255: warning: overriding recipe for target '.f90.o'
../../dtc/configure.gsi:123: warning: ignoring old recipe for target '.f90.o'
Makefile:260: warning: overriding recipe for target '.f.o'
../../dtc/configure.gsi:101: warning: ignoring old recipe for target '.f.o'
Makefile:265: warning: overriding recipe for target '.c.o'
../../dtc/configure.gsi:97: warning: ignoring old recipe for target '.c.o'
```

```
---> Compiling mpisetup.F90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpisetup.F90
mpisetup.F90:42:4:
```

```
use mpimod, only : mpi_comm_world,npe,mype
1
Fatal Error: Can't open module file "mpimod.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:250: recipe for target 'mpisetup.o' failed
make[3]: [mpisetup.o] Error 1 (ignored)
```

```
---> Compiling params.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c params.f90
params.f90:31:4:
```

```
use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'params.o' failed
make[3]: [params.o] Error 1 (ignored)
```

```
---> Compiling covlocal.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
```

```
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c covlocal.f90
covlocal.f90:76:5:
```

```
use params, only: latboundpp, latboundpm, latboundmp, latboundmm, delatinv
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'covlocal.o' failed
make[3]: [covlocal.o] Error 1 (ignored)
```

```
---> Compiling gridinfo_gfs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridinfo_gfs.f90
gridinfo_gfs.f90:47:4:
```

```
use mpisetup, only: nproc, mpi_integer, mpi_real4, mpi_comm_world
1
```

```
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'gridinfo_gfs.o' failed
make[3]: [gridinfo_gfs.o] Error 1 (ignored)
```

```
---> Compiling readozobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readozobs.f90
readozobs.f90:26:4:
```

```
use params, only: nsats_oz, satypes_oz, npefiles
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'readozobs.o' failed
make[3]: [readozobs.o] Error 1 (ignored)
```

```
---> Compiling readsatobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readsatobs.f90
readsatobs.f90:30:4:
```

```
use read_diag, only:
diag_data_fix_list, diag_header_fix_list, diag_header_chan_list, &
1
```

```
Fatal Error: Can't open module file "read_diag.mod" for reading at (1): No
```

such file or directory
compilation terminated.
Makefile:255: recipe for target 'readsatobs.o' failed
make[3]: [readsatobs.o] Error 1 (ignored)

---> Compiling readconvobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c readconvobs.f90
readconvobs.f90:25:4:

use constants, only: one,zero
1
Fatal Error: Can't open module file "constants.mod" for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'readconvobs.o' failed
make[3]: [readconvobs.o] Error 1 (ignored)

---> Compiling mpi_readobs.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c mpi_readobs.f90
mpi_readobs.f90:34:4:

use radinfo, only: npred
1
Fatal Error: Can't open module file "radinfo.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'mpi_readobs.o' failed
make[3]: [mpi_readobs.o] Error 1 (ignored)

---> Compiling enkf_obsmod.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_obsmod.f90
enkf_obsmod.f90:99:4:

use mpisetup
1
Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf_obsmod.o' failed
make[3]: [enkf_obsmod.o] Error 1 (ignored)

---> Compiling loadbal.f90
mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore

```
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c loadbal.f90
loadbal.f90:85:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'loadbal.o' failed
```

```
make[3]: [loadbal.o] Error 1 (ignored)
```

```
---> Compiling radbias.f90
```

```
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c radbias.f90
radbias.f90:43:4:
```

```
use mpisetup
```

```
1
```

```
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'radbias.o' failed
```

```
make[3]: [radbias.o] Error 1 (ignored)
```

```
---> Compiling gridio_gfs.f90
```

```
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c gridio_gfs.f90
gridio_gfs.f90:34:5:
```

```
use constants, only: zero,one,cp,fv,rd,grav,zero
```

```
1
```

```
Fatal Error: Can't open module file â€˜constants.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'gridio_gfs.o' failed
```

```
make[3]: [gridio_gfs.o] Error 1 (ignored)
```

```
---> Compiling statevec.f90
```

```
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c statevec.f90
statevec.f90:49:4:
```

```
use gridio, only: readgriddata, writegriddata
```

```
1
```

```
Fatal Error: Can't open module file â€˜gridio.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
```


Makefile:255: recipe for target 'statevec.o' failed
make[3]: [statevec.o] Error 1 (ignored)

---> Compiling enkf.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf.f90
enkf.f90:94:4:

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.

Makefile:255: recipe for target 'enkf.o' failed
make[3]: [enkf.o] Error 1 (ignored)

---> Compiling smooth_gfs.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c smooth_gfs.f90
smooth_gfs.f90:7:4:

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.

Makefile:255: recipe for target 'smooth_gfs.o' failed
make[3]: [smooth_gfs.o] Error 1 (ignored)

---> Compiling inflation.f90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c inflation.f90
inflation.f90:48:4:

use mpisetup

1

Fatal Error: Can't open module file "mpisetup.mod" for reading at (1): No such
file or directory
compilation terminated.

Makefile:255: recipe for target 'inflation.o' failed
make[3]: [inflation.o] Error 1 (ignored)

---> Compiling letkf.F90

mpif90 -DGFS -I ./ -I /home/user/comGSiv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c letkf.F90
letkf.F90:80:4:

```
use mpisetup
1
Fatal Error: Can't open module file â€˜mpisetup.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:250: recipe for target 'letkf.o' failed
make[3]: [letkf.o] Error 1 (ignored)
```

```
---> Compiling innovstats.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c innovstats.f90
innovstats.f90:25:4:
```

```
use enkf_obsmod, only: oberrvar,ob,ensmean_ob,obtype,nobs_conv,nobs_oz,&
1
Fatal Error: Can't open module file â€˜enkf_obsmod.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'innovstats.o' failed
make[3]: [innovstats.o] Error 1 (ignored)
```

```
---> Compiling enkf_main.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c enkf_main.f90
enkf_main.f90:71:5:
```

```
use params, only : read_namelist,letkf_flag,readin_localization,lupd_satbiasc,&
1
Fatal Error: Can't open module file â€˜params.modâ€™ for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'enkf_main.o' failed
make[3]: [enkf_main.o] Error 1 (ignored)
```

```
---> Compiling genqsat1.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c genqsat1.f90
genqsat1.f90:47:6:
```

```
use constants, only: xai,tmix,xb,omeps,eps,xbi,one,zero,&
1
Fatal Error: Can't open module file â€˜constants.modâ€™ for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'genqsat1.o' failed
make[3]: [genqsat1.o] Error 1 (ignored)
```

```
---> Compiling netcdf_io_wrf.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c netcdf_io_wrf.f90
netcdf_io_wrf.f90:9:8:
```

```
use netcdf_mod, only: nc_check
1
```

```
Fatal Error: Can't open module file "netcdf_mod.mod" for reading at (1): No
such file or directory
compilation terminated.
Makefile:255: recipe for target 'netcdf_io_wrf.o' failed
make[3]: [netcdf_io_wrf.o] Error 1 (ignored)
```

```
---> Compiling read_locinfo.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c read_locinfo.f90
read_locinfo.f90:4:7:
```

```
use params, only : nlevs, corrlengthnh, corrlengthtr, corrlengthsh, letkf_flag
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
Makefile:255: recipe for target 'read_locinfo.o' failed
make[3]: [read_locinfo.o] Error 1 (ignored)
```

```
---> Compiling write_logfile.f90
mpif90 -DGFS -I ./ -I /home/user/comGSIv3.6_EnKFv1.2/dtc/include -I
/home/user/Build_WRF/LIBRARIES/netcdf/include -O3 -fno-second-underscore
-fno-range-check -fconvert=big-endian -frecord-marker=4 -c write_logfile.f90
write_logfile.f90:2:5:
```

```
use params, only : datapath
1
```

```
Fatal Error: Can't open module file "params.mod" for reading at (1): No such
file or directory
compilation terminated.
```

```
Makefile:255: recipe for target 'write_logfile.o' failed
make[3]: [write_logfile.o] Error 1 (ignored)
```

```
mpif90 covlocal.o enkf.o enkf_main.o fftpack.o genqsat1.o gridinfo_gfs.o
gridio_gfs.o inflation.o innovstats.o kdtree2.o letkf.o loadbal.o mpi_readobs.o
mpisetup.o netcdf_io_wrf.o enkf_obsmod.o params.o sorting.o radbias.o
read_locinfo.o readconvobs.o readozobs.o readsatobs.o reducedgrid.o rnorm.o
smooth_gfs.o specmod.o statevec.o write_logfile.o ../antcorr_application.o
../blockIO.o ../kinds.o ../mpeu_mpif.o ../nstio_module.o ../wrf_params_mod.o
-L/home/user/comGSIv3.6_EnKFv1.2/dtc/lib -lsp_i4r8 -lsigio_i4r4 -lsfcio_i4r4
-lnemsio -lbacio -lw3nco_i4r8 -lbufr_i4r8 -lw3emc_i4r8 -lcrtm
```

```
/home/user/Build_WRF/WRF/external/io_int/libwrfio_int.a
/home/user/Build_WRF/WRF/external/io_netcdf/libwrfio_nf.a
/home/user/Build_WRF/WRF/frame/pack_utils.o
/home/user/Build_WRF/WRF/frame/module_machine.o
/home/user/Build_WRF/WRF/frame/module_driver_constants.o
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib -lnetcdff -lnetcdf
-L/home/user/Build_WRF/LIBRARIES/netcdf/lib
-L/home/user/Build_WRF/LIBRARIES/lapack -llapack -lblas -fopenmp -o global_enkf
gfortran: error: covlocal.o: No such file or directory
gfortran: error: enkf.o: No such file or directory
gfortran: error: enkf_main.o: No such file or directory
gfortran: error: genqsat1.o: No such file or directory
gfortran: error: gridinfo_gfs.o: No such file or directory
gfortran: error: gridio_gfs.o: No such file or directory
gfortran: error: inflation.o: No such file or directory
gfortran: error: innovstats.o: No such file or directory
gfortran: error: letkf.o: No such file or directory
gfortran: error: loadbal.o: No such file or directory
gfortran: error: mpi_readobs.o: No such file or directory
gfortran: error: mpisetup.o: No such file or directory
gfortran: error: netcdf_io_wrf.o: No such file or directory
gfortran: error: enkf_obsmod.o: No such file or directory
gfortran: error: params.o: No such file or directory
gfortran: error: radbias.o: No such file or directory
gfortran: error: read_locinfo.o: No such file or directory
gfortran: error: readconvobs.o: No such file or directory
gfortran: error: readozobs.o: No such file or directory
gfortran: error: readsatobs.o: No such file or directory
gfortran: error: smooth_gfs.o: No such file or directory
gfortran: error: statevec.o: No such file or directory
gfortran: error: write_logfile.o: No such file or directory
Makefile:283: recipe for target 'global_enkf' failed
make[3]: [global_enkf] Error 1 (ignored)
make[3]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
make[2]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
make[1]: Leaving directory '/home/user/comGSIV3.6_EnKFv1.2/src/enkf'
```