

NetCDF installation for C and Fortran libraries:

Follow the instructions below. The commands are denoted by '>>'. The order of the commands is important.

In bash:

Set-up main directories (first line can be any directory you want):

```
>> export ROOTDIR=/dfs2/dabdub/emartins
>> export SRCNCDF=${ROOTDIR}/srcNETCDF
>> export INSNCDF=${ROOTDIR}/NETCDF_INST

>> mkdir $SRCNCDF
>> mkdir $INSNCDF

>> cd $SRCNCDF
```

Download NetCDF source code:

```
>> wget ftp://ftp.unidata.ucar.edu/pub/netcdf/netcdf-4.4.1.1.tar.gz
>> wget ftp://ftp.unidata.ucar.edu/pub/netcdf/netcdf-fortran-4.4.4.tar.gz
```

Untar the files:

```
>> tar xfvz netcdf-4.4.1.1.tar.gz
>> tar xfvz netcdf-fortran-4.4.4.tar.gz
```

Install NetCDF-C libraries:

```
>> cd netcdf-4.4.1.1/
>> export CC=gcc
>> export CPPFLAGS="-DNDEBUG -DgFortran"
>> export CFLAGS="-O"
>> export FC=gfortran
>> export F77=gfortran
>> export FFLAGS="-O -w"
>> export CXX=g++
>> export BIN=Linux2_x86_64gfort

>> ./configure --prefix=${INSNCDF} --disable-netcdf-4 --disable-dap
>> make all check install
```

Install NetCDF-fortran libraries:

```
>> cd ../netcdf-fortran-4.4.4
>> export NCDIR=${INSNCDF}
>> export NFDIR=${INSNCDF}
>> export CPPFLAGS=${CPPFLAGS} -I${NCDIR}/include"
>> export LDFLAGS=${LDFLAGS} -L${NCDIR}/lib"
>> export LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:${NCDIR}/lib
>> export LIBS=${LIBS} -lnetcdf"

>> ./configure --prefix=${INSNCDF}
>> make check
>> make install
```

IOAPI installation

```
>> export IOAPIDIR=${ROOTDIR}/IOAPI
>> cd ${IOAPIDIR}
>> wget --no-check-certificate https://www.cmascenter.org/ioapi/download/ioapi-3.2.tar.gz
>> tar xfvz ioapi-3.2.tar.gz
>> cp Makefile.template Makefile
```

Edit Makefile, in lines 133-135 this way:

```
#BIN          = Linux2_x86_64
BASEDIR       = ${ROOTDIR}/IOAPI
INSTALL       = $(BASEDIR)
```

```
>> cd ioapi/
>> cp Makefile.nocpl Makefile
```

Edit ioapi/Makefile in line 81 this way:

```
BASEDIR = ${ROOTDIR}/IOAPI
```

```
>> cd m3tools/
>> cp Makefile.nocpl Makefile
```

Edit ioapi/Makefile in line 38 this way:

```
BASEDIR = ${ROOTDIR}/IOAPI
```

Line 61:

```
LIBS = -L${OBJDIR} -lioapi -L${NCDIR}/lib -lnetcdff -lnetcdf $(OMPLIBS) $(ARCHLIB)
$(ARCHLIBS)
```

```
>> cd ..
>> make all
```