

Compiling CMAQ v4.3 using PGF v 4.2

These are the steps UCR took to compile CMAQ with the Portland Group compiler.

[1] Install according to the release notes in the original package.

[2] After compiling the IOAPI libs, copy the file STATE3.EXT into the fixed_src directory.

Edit the copy of STATE3.EXT and remove the '&' characters from the end of lines when appropriate.

[3] change the bldit.cctm.linux. Here's how we do it:

```
=====
source ../envCMAQvariables
set Mpich = /home/aqm/share/mpich-1.2.5
set FC = /home/aqm/rmc/cmaq_v4.3/1996/base/run/cctm/mpif90
set FSTD = "-Mfixed -Mextend "
set F_FLAGS = "${FSTD} -O2 -module ${MODLOC}
-I${Mpich}/include/f90choice"
set CPP_FLAGS = "-Mfixed -Mextend"
set C_FLAGS = "-v -O2 -I${Mpich}/include"
set ICL_IOAPI = /home/aqm/models.linux/CMAQ_v4.3/lib/ioapi_22
=====
```

[4] To fix the syntax errors during compilation, delete # or change # to ! in:

```
aero_driver.F
cldproc.F
opconc.F
pa_output.F
par_term.F
setup_logdev.F
vdiffim.F
wr_aconc.F
wr_conc.F
```

[5] change the ioapi file IODECL3.EXT.

Add this to lines 73 and 74:

```
=====
LOGICAL PWRITE3, PSHUT3
EXTERNAL PWRITE3, PSHUT3
=====
```

re-compile ioapi_22

This will fix the compilation error: "PWRITE3/PSHUT3 undefined ..."