

GNU Fortran Programming

The Intel Fortran compiler *gfortran* is loaded only on the computer **esig4**. *More help is available on line. It may be accessed with **man gfortran***

Compiling:

gfortran [options] source.f - syntax for compiling and linking FORTRAN programs if no options are used, the executable is called *a.out*. The name of the source file can end in *.f* or *.f90*

gfortran -o outfile source.f - compiles *source.f* and produces *outfile* to be executed.

gfortran -c source.f - produces a linkable object file, creates the file called *source.o*

gfortran -o outfile file1.f file2.f file.n.f

- Compiles and links files *file1.f* *file2.f*, etc and produces the executable file specified by *outfile*.

gfortran -c sub2.f

gfortran -c sub3.f

gfortran -o main.exe main.f sub2.o sub3.o

- The first two commands show incremental compilation.

The first command generates an object file for *sub2*; the second generates an object file for *sub3*.