

**NAME**

ftn – Compile and link a Fortran program.

**SYNOPSIS**

**`${HOME}/bin/ftn program.f [sub1.f ...]`**

**DESCRIPTION**

If the script is invoked with no parameter it prints usage information and stops. Otherwise it sanity-checks the parameters one at a time. If a parameter is not the name of a non-empty .f or .F file the script writes an error message and stops. If the file does not contain an END statement, or if it has lines longer than 68 characters, the script reports that fact and asks for permission before continuing. Then it invokes /usr/bin/gfortran with options that are appropriate for compiling code written in Classical Fortran and for linking from libraries in \${HOME}/lib named libmisc.a, liblapack.a, libblasz.a, and libblasd.a, redirecting messages to /tmp/warnings. Only if the compiler reports a nonzero return code are the messages printed on the screen.

**DIAGNOSTICS**

These are the possible return codes.

- 0 all went well
- 1 a sanity check of the input files failed
- 2 the user elected not to compile a questionable input file
- 3 /usr/bin/gfortran detected errors

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**EXAMPLE**

```
unix[1] ftn main.f sub.f
unix[2]
```

This compilation succeeded, so the script produced an a.out file containing the executable but printed NO output.