

# nag\_modules: Modules Supplied with the NAG Fortran Compiler

July 25, 2022

## 1 Name

nag\_modules — Overview of modules supplied with the NAG Fortran compiler.

## 2 Synopsis

A number of pre-defined modules are provided with the NAG Fortran compiler for use in user programs. These modules are pre-compiled, the pre-compiled module form (‘.mod’ files) being stored in the NAG Fortran compiler library directory (normally `/usr/local/lib/NAG_Fortran`).

Each module is supplied with its own man page containing full usage details.

## 3 Description

### **F90\_GC**

Procedures and variables controlling the garbage collector.

### **F90\_IOSTAT**

Parameter definitions for input/output error codes (IOSTAT variables).

### **F90\_KIND**

Parameter definitions for kind numbers.

### **F90\_PRECONN\_IO**

File preconnection control.

### **F90\_STAT**

Parameter definitions for ALLOCATE/DEALLOCATE error codes (STAT variables).

### **F90\_UNIX**

A selection of Unix system functions. This has been made obsolete by the provision of the `F90_UNIX_*` modules, which comprise a partial API to the functions detailed in ISO/IEC 9945-1:1990 Portable Operating System Interface (POSIX) - Part 1: System Application Program Interface (API) [C Language].

### **F90\_UNIX\_DIR**

Unix directory operations.

### **F90\_UNIX\_DIRENT**

Operations for reading Unix directory entries.

### **F90\_UNIX\_ENV**

Unix environment functions.

### **F90\_UNIX\_ERRNO**

Unix error codes.

### **F90\_UNIX\_IO**

Unix I/O functions. Incomplete.

### **F90\_UNIX\_FILE**

Unix file characteristics.

## **F90\_UNIX\_PROC**

Unix process primitives.

## **IEEE\_ARITHMETIC**

The IEEE arithmetic module from TR 15580.

## **IEEE\_EXCEPTIONS**

The IEEE exceptions module from TR 15580.

## **IEEE\_FEATURES**

The IEEE features module from TR 15580.

## **ISO\_C\_BINDING**

The standard C interoperability module.

## **ISO\_FORTRAN\_ENV**

The standard Fortran environment module.

## **4 See Also**

**f90\_gc(3)**, **f90\_iostat(3)**, **f90\_kind(3)**, **f90\_preconn\_io(3)**, **f90\_stat(3)**, **f90\_unix(3)**, **f90\_unix\_dir(3)**, **f90\_unix\_dirent(3)**, **f90\_unix\_env(3)**, **f90\_unix\_errno(3)**, **f90\_unix\_file(3)**, **f90\_unix\_io(3)**, **f90\_unix\_proc(3)**, **nagfor(1)**, **ieee\_arithmetic(3)**, **ieee\_exceptions(3)**, **ieee\_features(3)**, **iso\_c\_binding(3)**, **iso\_fortran\_env(3)**.

## **5 Bugs**

Please report any bugs found to ‘support@nag.co.uk’ or ‘support@nag.com’, along with any suggestions for improvements.