1 Name

f90_stat — Module providing STAT error codes

2 Usage

USE F90_STAT

3 Synopsis

Parameters

STAT_ALREADY_ALLOCATED, STAT_MEMORY_LIMIT_EXCEEDED,
STAT_NO_MEMORY, STAT_NOT_ALLOCATED, STAT_NOT_ASSOCIATED,
STAT_PART_OF_LARGER_OBJECT, STAT_POINTER_UNDEFINED,
STAT_WRONG_COLOUR.

4 Parameter Description

    INTEGER,PARAMETER :: STAT_ALREADY_ALLOCATED

An allocatable variable in an ALLOCATE statement is already currently allocated.

    INTEGER,PARAMETER :: STAT_MEMORY_LIMIT_EXCEEDED

An allocation in an ALLOCATE statement requested more memory than the limit in this version of the
NAG Fortran compiler.

    INTEGER,PARAMETER :: STAT_NO_MEMORY

Insufficient free memory available to satisfy the requested allocation.

    INTEGER,PARAMETER :: STAT_NOT_ALLOCATED

An allocatable variable in a DEALLOCATE statement is not currently allocated.

    INTEGER,PARAMETER :: STAT_NOT_ASSOCIATED

A pointer in a DEALLOCATE statement is disassociated.

    INTEGER,PARAMETER :: STAT_PART_OF_A_LARGER_OBJECT
A pointer in a `DEALLOCATE` statement refers to part of a larger object.

```
INTEGER,PARAMETER :: STAT_POINTER_UNDEFINED
```

A pointer in a `DEALLOCATE` statement is undefined. (This value is never returned to the user program, which is always immediately terminated if the use of an undefined pointer is detected.)

```
INTEGER,PARAMETER :: STAT_WRONG_COLOUR
```

A pointer in a `DEALLOCATE` statement is associated with a target that was not created by pointer allocation.

5 Example

```
USE f90_stat
REAL,ALLOCATABLE :: big(:,:,)
INTEGER :: status
ALLOCATE(big(100,1024,1024),STAT=status)
IF (status==STAT_NO_MEMORY) PRINT *,"Out of memory"
```

6 Notes

The source code for this module may be found in the NAG Fortran runtime library directory (usually `/usr/local/lib/NAG_Fortran`).

7 See Also

`nagfor(1), nag_modules(3)`. 

8 Bugs

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