X04AAF

NAG Parallel Library Routine Document

Note: Before using this routine, please read the Users' Note for your implementation to check for implementation-dependent details.

1 Description

X04AAF returns the value of the current error message unit number, or sets the current error message unit number to a new value. X04AAF need not be preceded by a call to Z01AAFP.

2 Specification

```
SUBROUTINE X04AAF(IFLAG, NERR)
INTEGER           IFLAG, NERR
```

3 Data Distribution

This routine enables those library routines which output error messages, to determine the number of the output unit to which the error messages are to be sent; in this case X04AAF is called with IFLAG = 0. X04AAF may also be called with IFLAG = 1 to set the unit number to a specified value. Otherwise a default value (stated in the Users' Note for your implementation) is returned.

Records written to this output unit by other library routines are at most 80 characters long (including a line-printer carriage control character).

Note that if the unit number is set < 0, no messages will be output.

4 Arguments

1: IFLAG — INTEGER *Input*

On entry: the action to be taken (see NERR).

Constraint: IFLAG = 0 or 1.

2: NERR — INTEGER *Input/Output*

On entry:

if IFLAG = 0, NERR need not be set;
if IFLAG = 1, NERR must specify the new error message unit number.

On exit:

if IFLAG = 0, NERR is set to the current error message unit number,
if IFLAG = 1, NERR is unchanged.

Note that Fortran unit numbers must be positive or zero. If NERR is set < 0, output of error messages is totally suppressed.

5 Errors and Warnings

None.

6 Further Comments

The time taken by the routine is negligible.

7 References

None.

8 Example

In this example X04AAF is called by the user's main program to make the error message from the routine DUMMY appear on the same unit as the rest of the output (unit 6). Normally a NAG Parallel Library routine with an IFAIL parameter would take the place of DUMMY.

8.1 Example Text

```
*     X04AAF Example Program Text
*     NAG Parallel Library Release 2. NAG Copyright 1996.
*     .. Parameters ..
      INTEGER          NOUT
      PARAMETER        (NOUT=6)
*     .. External Subroutines ..
      EXTERNAL         DUMMY, X04AAF
*     .. Executable Statements ..
      WRITE (NOUT,*) 'X04AAF Example Program Results'
*
      CALL X04AAF(1,NOUT)
      CALL DUMMY
*
      STOP
      END
*
      SUBROUTINE DUMMY
*     .. Local Scalars ..
      INTEGER          NERR
*     .. External Subroutines ..
      EXTERNAL         X04AAF
*     .. Executable Statements ..
      CALL X04AAF(0,NERR)
      WRITE (NERR,*)
      WRITE (NERR,*) 'This is a dummy error message'
      RETURN
      END
```

8.2 Example Data

None.

8.3 Example Results

```
X04AAF Example Program Results

This is a dummy error message
```