

NAG Toolbox for MATLAB

x04aa

1 Purpose

x04aa returns the value of the current error message unit number, or sets the current error message unit number to a new value.

2 Syntax

```
[nerr] = x04aa(iflag, nerr)
```

3 Description

x04aa enables those library functions which output error messages, to determine the number of the output unit to which the error messages are to be sent; in this case x04aa is called with **iflag** = 0. x04aa may also be called with **iflag** = 1 to set the unit number to a specified value. Otherwise a default value is returned.

Records written to this output unit by other library functions 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 References

None.

5 Parameters

5.1 Compulsory Input Parameters

1: **iflag** – int32 scalar

The action to be taken (see **nerr**).

Constraint: **iflag** = 0 or 1.

2: **nerr** – int32 scalar

If **iflag** = 0, **nerr** need not be set.

If **iflag** = 1, **nerr** must specify the new error message unit number.

5.2 Optional Input Parameters

None.

5.3 Input Parameters Omitted from the MATLAB Interface

None.

5.4 Output Parameters

1: **nerr** – int32 scalar

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.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

The time taken by x04aa is negligible.

9 Example

```
iflag = int32(1);  
nerr = int32(6);  
[nerrOut] = x04aa(iflag, nerr)  
  
nerrOut =  
        6
```