

NAG Toolbox

nag_file_set_unit_error (x04aa)

1 Purpose

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

3 Description

nag_file_set_unit_error (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 nag_file_set_unit_error (x04aa) is called with **iflag** = 0. nag_file_set_unit_error (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** – INTEGER

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

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

2: **nerr** – INTEGER

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 Output Parameters

1: **nerr** – INTEGER

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 nag_file_set_unit_error (x04aa) is negligible.

9 Example

9.1 Program Text

```
function x04aa_example

fprintf('x04aa example results\n\n');

iflag = nag_int(1);
nerr = nag_int(6);
[nerr] = x04aa(iflag, nerr);

fprintf('The error message unit number is set to %2d\n', nerr);
fprintf('(Note: this has no effect in this product)\n');
```

9.2 Program Results

```
x04aa example results
```

```
The error message unit number is set to 6
(Note: this has no effect in this product)
```
