

NAG Toolbox for MATLAB

x04ab

1 Purpose

x04ab returns the value of the current advisory message unit number, or sets the current advisory message unit number to a new value.

2 Syntax

```
[nadv] = x04ab(iflag, nadv)
```

3 Description

x04ab enables those library functions which output advisory messages to determine the number of the output unit to which the advisory messages are to be sent; in this case x04ab is called with **iflag** = 0. x04ab 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 120 characters long (including a line-printer carriage control character), unless those library functions allow you to specify longer records.

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 **nadv**).

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

2: **nadv** – **int32** scalar

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

If **iflag** = 1, **nadv** must specify the new advisory message unit number.

5.2 Optional Input Parameters

None.

5.3 Input Parameters Omitted from the MATLAB Interface

None.

5.4 Output Parameters

1: **nadv** – **int32** scalar

If **iflag** = 0, **nadv** is set to the current advisory message unit number.

If **iflag** = 1, **nadv** is unchanged.

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

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

The time taken by x04ab is negligible.

9 Example

```
iflag = int32(1);  
nadv = int32(6);  
[nadvOut] = x04ab(iflag, nadv)  
  
nadvOut =  
        6
```