NAG Fortran Library Routine Document

E05JHF

Note: before using this routine, please read the Users' Note for your implementation to check the interpretation of **bold italicised** terms and other implementation-dependent details.

1   Purpose

To check if you have set an optional parameter of E05JBF. The initialization routine E05JAF **must** have been called before calling E05JHF.

2   Specification

```
INTEGER FUNCTION E05JHF (STRING, RW, LENRW, IFAIL)

INTEGER                    LENRW, IFAIL
double precision           RW(LENRW)
CHARACTER*(*)              STRING
```

3   Description

E05JHF returns 1 if you have previously set the option contained in STRING, otherwise it returns 0.

A complete list of optional parameters, their abbreviations, synonyms and default values is given in Section 11 of the document for E05JBF.

4   References

None.

5   Parameters

1:    STRING – CHARACTER*(*)   *Input*

On entry: a single valid option string (as described in Section 11 of the document for E05JBF).

2:    RW(LENRW) – **double precision** array   *Communication Array*

The array RW **must not** be altered between calls to any of the routines E05JBF, E05JCF, E05JDF, E05JEF, E05JFF, E05JGF, E05JHF, E05JKF and E05JLF.

3:    LENRW – INTEGER   *Input*

On entry: the dimension of the array RW as declared in the (sub)program from which E05JHF is called.

4:    IFAIL – INTEGER   *Input/Output*

On entry: IFAIL must be set to 0, −1 or 1. If you are unfamiliar with this parameter you should refer to Chapter P01 for details.

On exit: IFAIL = 0 unless the routine detects an error (see Section 6).

For environments where it might be inappropriate to halt program execution when an error is detected, the value −1 or 1 is recommended. If the output of error messages is undesirable, then the value 1 is recommended. Otherwise, if you are not familiar with this parameter the recommended value is 0. **When the value −1 or 1 is used it is essential to test the value of IFAIL on exit.**

6   Error Indicators and Warnings

If on entry IFAIL = 0 or −1, explanatory error messages are output on the current error message unit (as defined by X04AAF).

Errors or warnings detected by the routine:

IFAIL = 1

   The initialization routine E05JAF has not been called.

IFAIL = 2

   The supplied option is invalid. Check that the keywords are neither ambiguous nor misspelt.

IFAIL = 3

   The option-name contained the wrong number of word 'tokens', so could not be recognised by the routine.

7   Accuracy

Not applicable.

8   Further Comments

None.

9   Example

See Section 9 of the document for E05JCF.