NAG Fortran Library Routine Document E05.JAF

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

E05JAF is used to initialize the routine E05JBF.

2 Specification

SUBROUTINE E05JAF (N, RW, LENRW, IFAIL)

INTEGER

N, LENRW, IFAIL

double precision

RW(LENRW)

3 Description

E05JAF initializes the array RW for the routine E05JBF.

4 References

None.

5 Parameters

1: N – INTEGER Input

On entry: n, the number of variables.

Constraint: N > 0.

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, E05JFF

3: LENRW – INTEGER

Input

On entry: the dimension of the array RW as declared in the (sub)program from which E05JAF is called.

Constraint: LENRW ≥ 100, see routine E05JBF.

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.

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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

An input parameter is invalid. The output message provides more details of the invalid argument.

7 Accuracy

Not applicable.

8 Further Comments

The time taken by E05JAF is negligible.

9 Example

See Section 9 of the documents for E05JBF and E05JCF.

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