NAG Library Routine Document

D02MCF

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

D02MCF is a setup routine which must be called prior to a continuation call to D02NEF.

2 Specification

```
SUBROUTINE D02MCF (ICOM)
INTEGER ICOM(15)
```

3 Description

D02MCF is provided to permit you to signal that the next call to D02NEF is a continuation call. In particular, if D02NEF exits because the maximum number of integration steps has been exceeded, then a call to D02MCF resets the step counter allowing the integration to proceed.

4 References

See Section 3 in D02NEF.

5 Arguments

1: ICOM(15) – INTEGER array *Communication Array*

This must be the same array ICOM as passed to the integration routine D02NEF; D02MCF does not require access to all of that array, hence the smaller dimension given here.

On entry: contains details of the current state of integration as returned by D02NEF.

On exit: one or more of the values is changed to signal to the integrator that a continuation call is being made. This will reset the step counter to zero.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

D02MCF is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in D02NEF.