NAG Library Function Document

nag_dae_ivp_dassl_cont (d02mcc)

1   Purpose

nag_dae_ivp_dassl_cont (d02mcc) is a setup function which must be called prior to a continuation call to nag_dae_ivp_dassl_gen (d02nec).

2   Specification

```
#include <nag.h>
#include <nagd02.h>
void nag_dae_ivp_dassl_cont (Integer icom[])
```

3   Description

nag_dae_ivp_dassl_cont (d02mcc) is provided to permit you to signal that the next call to nag_dae_ivp_dassl_gen (d02nec) is a continuation call. In particular, if nag_dae_ivp_dassl_gen (d02nec) exits because the maximum number of integration steps has been exceeded, then a call to nag_dae_ivp_dassl_cont (d02mcc) resets the step counter allowing the integration to proceed.

4   References

See Section 3 in nag_dae_ivp_dassl_gen (d02nec).

5   Arguments

1:    **icom**[**15**] – Integer   *Communication Array*

This must be the same array **icom** as passed to the integration function nag_dae_ivp_dassl_gen (d02nec); nag_dae_ivp_dassl_cont (d02mcc) 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 nag_dae_ivp_dassl_gen (d02nec).

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

nag_dae_ivp_dassl_cont (d02mcc) is not threaded in any implementation.

9   Further Comments

None.

10 Example

See Section 10 in nag_dae_ivp_dassl_gen (d02nec).