

## NAG Library Function Document

### nag\_glopt\_bnd\_mcs\_option\_check (e05jhc)

#### 1 Purpose

nag\_glopt\_bnd\_mcs\_option\_check (e05jhc) is used to check if you have set an optional parameter of nag\_glopt\_bnd\_mcs\_solve (e05jbc). The initialization function nag\_glopt\_bnd\_mcs\_init (e05jac) **must** have been called before calling nag\_glopt\_bnd\_mcs\_option\_check (e05jhc).

#### 2 Specification

```
#include <nag.h>
#include <nage05.h>

Integer nag_glopt_bnd_mcs_option_check (const char *optstr,
                                         Nag_E05State *state, NagError *fail)
```

#### 3 Description

nag\_glopt\_bnd\_mcs\_option\_check (e05jhc) returns 1 if you have previously set the optional parameter contained in **optstr**, otherwise it returns 0.

A complete list of optional parameters, their symbolic names and default values is given in Section 12 in nag\_glopt\_bnd\_mcs\_solve (e05jbc).

#### 4 References

None.

#### 5 Arguments

- 1: **optstr** – const char \* *Input*  
*On entry:* a string identifying an optional parameter (as described in Section 12 in nag\_glopt\_bnd\_mcs\_solve (e05jbc)).
- 2: **state** – Nag\_E05State \* *Communication Structure*  
**state** contains information required by other functions in this suite. You must not modify it directly in any way.
- 3: **fail** – NagError \* *Input/Output*  
The NAG error argument (see Section 2.7 in How to Use the NAG Library and its Documentation).

#### 6 Error Indicators and Warnings

##### NE\_ALLOC\_FAIL

Dynamic memory allocation failed.  
See Section 2.3.1.2 in How to Use the NAG Library and its Documentation for further information.

##### NE\_BAD\_PARAM

On entry, argument *<value>* had an illegal value.

**NE\_INTERNAL\_ERROR**

An internal error has occurred in this function. Check the function call and any array sizes. If the call is correct then please contact NAG for assistance.

An unexpected error has been triggered by this function. Please contact NAG.  
See Section 2.7.6 in How to Use the NAG Library and its Documentation for further information.

**NE\_NO\_LICENCE**

Your licence key may have expired or may not have been installed correctly.  
See Section 2.7.5 in How to Use the NAG Library and its Documentation for further information.

**NE\_NOT\_INIT**

Initialization function nag\_glopt\_bnd\_mcs\_init (e05jac) has not been called.

**NE\_OPT\_NOT\_READ**

The supplied optional parameter is invalid. A keyword or keyword combination was not recognized.

**7 Accuracy**

Not applicable.

**8 Parallelism and Performance**

nag\_glopt\_bnd\_mcs\_option\_check (e05jhc) is not threaded in any implementation.

**9 Further Comments**

None.

**10 Example**

See Section 10 in nag\_glopt\_bnd\_mcs\_optset\_file (e05jcc).

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