

## 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 argument 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 argument contained in **optstr**, otherwise it returns 0.

A complete list of optional arguments, 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 argument (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 3.6 in the Essential Introduction).

#### 6 Error Indicators and Warnings

##### NE\_BAD\_PARAM

On entry, argument  $\langle value \rangle$  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.

**NE\_NOT\_INIT**

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

**NE\_OPT\_NOT\_READ**

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

**7 Accuracy**

Not applicable.

**8 Parallelism and Performance**

Not applicable.

**9 Further Comments**

None.

**10 Example**

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

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