nag_glopt_bnd_mcs_optget_real (e05jlc)

1 Purpose

nag_glopt_bnd_mcs_optget_real (e05jlc) is used to get the value of a real nag_glopt_bnd_mcs_solve (e05jbc) optional argument. nag_glopt_bnd_mcs_optget_real (e05jlc) can be used before or after calling nag_glopt_bnd_mcs_solve (e05jbc), but the initialization function nag_glopt_bnd_mcs_init (e05jac) must have been called before calling nag_glopt_bnd_mcs_optget_real (e05jlc).

2 Specification

```c
#include <nag.h>
#include <nage05.h>
void nag_glopt_bnd_mcs_optget_real (const char *optstr, double *rvalue, 
Nag_E05State *state, NagError *fail)
```

3 Description

nag_glopt_bnd_mcs_optget_real (e05jlc) obtains the current value of a real-valued optional argument. For example

```c
e05jlc (‘Local Searches Tolerance’, &loctol, &state, &fail);
```

will result in the value of the optional argument Local Searches Tolerance being output in loctol.

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 a real-valued optional argument (as described in Section 12 in nag_glopt_bnd_mcs_solve (e05jbc)).

2: rvalue – double *
   *Output*
   On exit: if fail.code = NE_NOERROR on exit, rvalue contains the real value associated with the optional argument in optstr.

3: state – Nag_E05State *
   *Communication Structure*
   state contains information required by other functions in this suite. You must not modify it directly in any way.

4: fail – NagError *
   *Input/Output*
   The NAG error argument (see Section 3.6 in the Essential Introduction).
6 Error Indicators and Warnings

NE_ALLOC_FAIL
Dynamic memory allocation failed.
See Section 3.2.1.2 in the Essential Introduction 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 3.6.6 in the Essential Introduction for further information.

NE_NO_LICENCE
Your licence key may have expired or may not have been installed correctly.
See Section 3.6.5 in the Essential Introduction 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 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).