

NAG Library Function Document

nag_opt_sparse_convex_qp_option_get_integer (e04nxc)

1 Purpose

nag_opt_sparse_convex_qp_option_get_integer (e04nxc) is used to get the value of an Integer optional parameter. nag_opt_sparse_convex_qp_option_get_integer (e04nxc) can be used before or after calling nag_opt_sparse_convex_qp_solve (e04nqc).

2 Specification

```
#include <nag.h>
#include <nage04.h>

void nag_opt_sparse_convex_qp_option_get_integer (const char *string,
Integer *ivalue, Nag_E04State *state, NagError *fail)
```

3 Description

nag_opt_sparse_convex_qp_option_get_integer (e04nxc) obtains the current value of an integer option. For example:

```
e04nxc ("Iterations", &itnlim, &state, &fail);
```

will result in the value of the optional parameter **Iterations Limit** being output in itnlim.

A complete list of optional parameters, their abbreviations, synonyms and default values is given in Section 12 in nag_opt_sparse_convex_qp_solve (e04nqc).

4 References

None.

5 Arguments

- 1: **string** – const char * *Input*
On entry: a single valid keyword of an Integer optional parameter (as described in Section 12 in nag_opt_sparse_convex_qp_solve (e04nqc)).
- 2: **ivalue** – Integer * *Output*
On exit: the Integer value associated with the keyword in **string**.
- 3: **state** – Nag_E04State * *Communication Structure*
state contains internal information required for functions in this suite. It must not be modified in any way.
- 4: **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_E04_OPTION_INVALID

The supplied option string is invalid. Check that the keywords are neither ambiguous nor misspelt. The option string is '*<value>*'.

NE_E04NPC_NOT_INIT

The initialization function nag_opt_sparse_convex_qp_init (e04npc) has not been called.

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.

7 Accuracy

Not applicable.

8 Parallelism and Performance

nag_opt_sparse_convex_qp_option_get_integer (e04nxc) is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in nag_opt_sparse_convex_qp_option_set_file (e04nrc).
