

NAG C 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 argument. 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 argument **Iterations** being output in itnlim.

A complete list of optional arguments, their abbreviations, synonyms and default values is given in Section 11 of the document for 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 argument (as described in Section 11 of the document for 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*
Note: **state** is a NAG defined type (see Section 2.2.1.1 of the Essential Introduction).
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 2.6 of the Essential Introduction).

6 Error Indicators and Warnings

NE_BAD_PARAM

On entry, argument $\langle value \rangle$ had an illegal value.

NE_E04NPC_NOT_INIT

Initialization function `nag_opt_sparse_convex_qp_init` (e04npc) has not been called.

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_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 consult NAG for assistance.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

See Section 9 of the document for `nag_opt_sparse_convex_qp_option_set_file` (e04nrc).
