

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 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 Limit** being output in itnlim.

A complete list of optional arguments, 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 * | <i>Input</i> |
| | <i>On entry:</i> a single valid keyword of an Integer optional argument (as described in Section 12 in nag_opt_sparse_convex_qp_solve (e04nqc)). | |
| 2: | ivalue – Integer * | <i>Output</i> |
| | <i>On exit:</i> the Integer value associated with the keyword in string . | |
| 3: | state – Nag_E04State * | <i>Communication Structure</i> |
| | state contains internal information required for functions in this suite. It must not be modified in any way. | |
| 4: | fail – NagError * | <i>Input/Output</i> |
| | 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_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

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.

7 Accuracy

Not applicable.

8 Parallelism and Performance

Not applicable.

9 Further Comments

None.

10 Example

See Section 10 in `nag_opt_sparse_convex_qp_option_set_file` (e04nrc).
