NAG Library Function Document

nag_opt_sparse_nlp_option_get_integer (e04vrc)

1   Purpose

nag_opt_sparse_nlp_option_get_integer (e04vrc) is used to get the value of an Integer optional argument. nag_opt_sparse_nlp_option_get_integer (e04vrc) can be used before or after calling nag_opt_sparse_nlp_solve (e04vhc).

2   Specification

```
#include <nag.h>
#include <nage04.h>
void nag_opt_sparse_nlp_option_get_integer (const char *string,
     Integer *ivalue, Nag_E04State *state, NagError *fail)
```

3   Description

nag_opt_sparse_nlp_option_get_integer (e04vrc) obtains the current value of an integer option. For example

```
    e04vrc ("Major Iterations", &itnlim, &state, &fail);
```

will result in the value of the optional argument **Major 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_nlp_solve (e04vhc).

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 12 in nag_opt_sparse_nlp_solve (e04vhc)).

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 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 $\langle value \rangle$ 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 '$\langle value \rangle$'.

NE_E04VGC_NOT_INIT

The initialization function nag_opt_sparse_nlp_init (e04vgc) 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 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.

7 Accuracy

Not applicable.

8 Parallelism and Performance

Not applicable.

9 Further Comments

None.

10 Example

See Section 10 in nag_opt_sparse_nlp_option_set_file (e04vkc).