NAG C Library Function Document

nag_opt_nlp_option_get_integer (e04wkc)

1   Purpose

nag_opt_nlp_option_get_integer (e04wkc) is used to get the value of an Integer optional argument. nag_opt_nlp_option_get_integer (e04wkc) can be used before or after calling nag_opt_nlp_solve (e04wdc).

2   Specification

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

void nag_opt_nlp_option_get_integer (const char *__string__, Integer *__ivalue__,
      Nag_E04State *__state__, NagError *__fail__)

3   Description

nag_opt_nlp_option_get_integer (e04wkc) obtains the current value of an integer option. For example

        e04wkc ("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_nlp_solve (e04wdc).

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_nlp_solve (e04wdc)).

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 ⟨*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_E04WCC_NOT_INIT

>   Initialization function nag_opt_nlp_init (e04wcc) 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 consult NAG for assistance.

7   Accuracy

Not applicable.

8   Further Comments

None.

9   Example

See Section 9 of the document for nag_opt_nlp_option_set_file (e04wec).