NAG Library Function Document

nag_opt_sparse_convex_qp_option_get_double (e04nyc)

1 Purpose
nag_opt_sparse_convex_qp_option_get_double (e04nyc) is used to get the value of a double optional argument. nag_opt_sparse_convex_qp_option_get_double (e04nyc) 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_double (const char *string, double *rvalue, Nag_E04State *state, NagError *fail)

3 Description
nag_opt_sparse_convex_qp_option_get_double (e04nyc) obtains the current value of a double option. For example

    e04nyc ("Feasibility Tolerance", &featol, &state, &fail);

will result in the value of the optional argument Feasibility Tolerance being output in featol.

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 *  
    On entry: a single valid keyword of a double optional argument (as described in Section 12 in nag_opt_sparse_convex_qp_solve (e04nqc)).

2:  rvalue – double *  
    On exit: the double 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 is invalid. Check that the keywords are neither ambiguous nor misspelt. The
    option string is ‘\langle value\rangle’.

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 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_convex_qp_option_set_file (e04nrc).