NAG Library Function Document

nag_opt_nlp_revcomm_option_set_string (e04uec)

1 Purpose
To supply individual optional arguments to nag_opt_nlp_revcomm (e04uec).

2 Specification
#include <nag.h>
#include <nage04.h>
void nag_opt_nlp_revcomm_option_set_string (const char *str,
    Nag_Boolean lwsav[], Integer iwsav[], double rwsav[], NagError *fail)

3 Description
nag_opt_nlp_revcomm_option_set_string (e04uec) may be used to supply values for optional arguments to
nag_opt_nlp_revcomm (e04uec). It is only necessary to call nag_opt_nlp_revcomm_option_set_string
(e04uec) for those arguments whose values are to be different from their default values. One call to
nag_opt_nlp_revcomm_option_set_string (e04uec) sets one argument value.

Each optional argument is defined by a single character string, consisting of one or more items. The
items associated with a given option must be separated by spaces, or equals signs [=]. Alphabetic
characters may be upper or lower case. The string

    Print Level = 1

is an example of a string used to set an optional argument. For each option the string contains one or
more of the following items:

– a mandatory keyword;
– a phrase that qualifies the keyword;
– a number that specifies an Integer or double value. Such numbers may be up to 16 contiguous
chars which can be read using C’s d or g formats, terminated by a space if this is not the last
item on the line.

Blank strings and comments are ignored. A comment begins with an asterisk (*) and all subsequent
characters in the string are regarded as part of the comment.

Optional argument settings are preserved following a call to nag_opt_nlp_revcomm (e04uec) and so the
keyword Defaults is provided to allow you to reset all the optional arguments to their default values
before a subsequent call to nag_opt_nlp_revcomm (e04uec).

A complete list of optional arguments, their abbreviations, synonyms and default values is given in
Section 12 in nag_opt_nlp_revcomm (e04uec).

4 References
None.

5 Arguments

1: str – const char *  
   On entry: a single valid option string (as described in Section 3 and in Section 12 in
   nag_opt_nlp_revcomm (e04uec)).
The arrays lwsav, iwsav and rwsav MUST NOT be altered between calls to any of the functions nag_opt_nlp_revcomm_option_set_file (e04udc), nag_opt_nlp_revcomm_option_set_string (e04uec), nag_opt_nlp_revcomm (e04ufc) or nag_opt_nlp_revcomm_init (e04wbc).

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 value had an illegal 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 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_INVALID_OPTION
The supplied option string is invalid. Supplied value was: value.

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
nag_opt_nlp_revcomm_option_set_file (e04udc) may also be used to supply optional arguments to nag_opt_nlp_revcomm (e04ufc).

10 Example
See Section 10 in nag_opt_nlp_revcomm_option_set_file (e04udc).