

NAG C Library Function Document

nag_opt_sparse_nlp_init (e04vgc)

1 Purpose

nag_opt_sparse_nlp_init (e04vgc) is used to initialize the function nag_opt_sparse_nlp_solve (e04vhc).

2 Specification

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

```
void nag_opt_sparse_nlp_init (Nag_E04State *state, NagError *fail)
```

3 Description

nag_opt_sparse_nlp_init (e04vgc) initializes the structure **state** for the function nag_opt_sparse_nlp_solve (e04vhc).

4 References

None.

5 Arguments

1: **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.

2: **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_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

The time taken by nag_opt_sparse_nlp_init (e04vgc) is negligible.

9 Example

See Section 9 of the documents for `nag_opt_sparse_nlp_solve` (e04vhc) and `nag_opt_sparse_nlp_option_set_file` (e04vkc).
