

NAG Library Function Document

nag_opt_sparse_convex_qp_init (e04npc)

1 Purpose

nag_opt_sparse_convex_qp_init (e04npc) is used to initialize the function nag_opt_sparse_convex_qp_solve (e04nqc).

2 Specification

```
#include <nag.h>
#include <nage04.h>
void nag_opt_sparse_convex_qp_init (Nag_E04State *state, NagError *fail)
```

3 Description

nag_opt_sparse_convex_qp_init (e04npc) initializes the structure **state** for the function nag_opt_sparse_convex_qp_solve (e04nqc).

4 References

None.

5 Arguments

- 1: **state** – Nag_E04State * *Communication Structure*
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 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_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

The time taken by `nag_opt_sparse_convex_qp_init` (e04npc) is negligible.

10 Example

See Section 10 in `nag_opt_sparse_convex_qp_solve` (e04nqc) and `nag_opt_sparse_convex_qp_option_set_file` (e04nrc).
