

NAG C Library Function Document

nag_check_licensing (a00acc)

1 Purpose

nag_check_licensing (a00acc) provides a convenient means of checking the availability of a valid licence key on licence-managed implementations before starting computations that will use NAG library functions. In particular, the use of this function is highly recommended in programs that call NAG library functions within multithreaded sections (e.g., OpenMP parallel regions). The function need only be called once, before the start of the first multithreaded section.

2 Specification

```
#include <nag.h>
#include <naga00.h>

int nag_check_licensing ()
```

3 Description

nag_check_licensing (a00acc) returns the logical value **Nag_True** if a valid licence is found. If no valid licence is available, the underlying licence-management mechanism may stop the program, hence nag_check_licensing (a00acc) will not return. Otherwise **Nag_False** will be returned.

On non licence-managed implementations, **Nag_True** is always returned.

4 References

None.

5 Arguments

None.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

The example program prints an appropriate message depending upon the value returned by nag_check_licensing (a00acc).

9.1 Program Text

```
/* nag_licence_query(a00acc) Example Program
 *
 * Copyright 2005 Numerical Algorithms Group.
 *
 * Mark 8, 2005.
 */

#include <nag.h>
#include <stdio.h>
#include <nag_stdlib.h>
#include <naga00.h>

int main(void)
{
    Integer exit_status=0;
    Vprintf("a00acc Example Program Results\n\n");

    if (!nag_licence_query())
    {
        Vprintf(" Unable to obtain a licence for this implementation.\n");
        exit_status = 1;
    }
    else
    {
        Vprintf(" Licence query was successful\n");
    }

    return exit_status;
}
```

9.2 Program Data

None.

9.3 Program Results

a00acc Example Program Results

Licence query was successful
