

NAG Library Function Document

nag_licence_query (a00acc)

1 Purpose

nag_licence_query (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 C Library functions. In particular, the use of this function is highly recommended in programs that call NAG C 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>
Nag_Boolean nag_licence_query ()
```

3 Description

nag_licence_query (a00acc) returns the logical value Nag_TRUE if a valid licence is found, otherwise Nag_FALSE is 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 Parallelism and Performance

Not applicable.

9 Further Comments

None.

10 Example

This example prints an appropriate message depending upon the value returned by nag_licence_query (a00acc).

10.1 Program Text

```
/* nag_licence_query (a00acc) Example Program.
 *
 * NAGPRODCODE Version.
 *
 * Copyright 2016 Numerical Algorithms Group.
 *
 * Mark 26, 2016.
 */

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

int main(void)
{
    Integer exit_status = 0;

    printf("nag_licence_query (a00acc) Example Program Results\n\n");

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

END:
    return exit_status;
}
```

10.2 Program Data

None.

10.3 Program Results

```
nag_licence_query (a00acc) Example Program Results

Licence query was successful
```
