

NAG Library Function Document

nag_omp_in_parallel (x06afc)

1 Purpose

nag_omp_in_parallel (x06afc) returns 1 if called from within an active OpenMP parallel region, and 0 otherwise.

2 Specification

```
#include <nag.h>
#include <nagx06.h>
Integer nag_omp_in_parallel ()
```

3 Description

nag_omp_in_parallel (x06afc), for multi-threaded implementations, returns 1 if called from within an active OpenMP parallel region, and 0 otherwise.

In serial implementations of the NAG C Library this function will always return 0. See the x06 Chapter Introduction for a discussion of the behaviour of these functions when called in serial.

4 References

OpenMP Specifications <http://openmp.org/wp/OpenMP-Specifications>

Chapman B, Jost G and van der Pas R (2008) *Using OpenMP Portable Shared Memory Parallel Programming* The MIT Press

5 Arguments

None.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

nag_omp_in_parallel (x06afc) is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in `nag_omp_get_thread_num` (x06adc) for a demonstration of how to use `nag_omp_in_parallel` (x06afc).
