

# 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

Not applicable.

### 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).

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