NAG Library Function Document

nag_max_sine_argument (X02AHC)

1 Purpose
nag_max_sine_argument (X02AHC) returns the largest positive argument for which the C compiler run-time library functions sin and cos return a result with some meaningful accuracy.

2 Specification
#include <nag.h>
#include <nagx02.h>
double nag_max_sine_argument

3 Description
nag_max_sine_argument (X02AHC) is a constant defined in the C Header file.
The trigonometric functions sin and cos supplied in some compiler run-time libraries do not return accurate results when their argument is large. Often the related accuracy of a result gets progressively worse as the argument gets larger. nag_max_sine_argument (X02AHC) gives a value beyond which the compiler run-time library returns results with no relative accuracy at all. Note that some run-time libraries do return accurate results for all arguments to sin and cos.

4 References
None.

5 Arguments
None.

6 Error Indicators and Warnings
None.

7 Accuracy
None.

8 Parallelism and Performance
Not applicable.

9 Further Comments
None.

10 Example
None.