

NAG Library Function Document

nag_real_smallest_number (X02AKC)

1 Purpose

nag_real_smallest_number (X02AKC) returns the smallest positive floating-point number.

2 Specification

```
#include <nag.h>
#include <nagx02.h>
double nag_real_smallest_number
```

3 Description

nag_real_smallest_number (X02AKC) is a constant defined in the C Header file.

nag_real_smallest_number (X02AKC) returns the smallest positive number in the model of floating-point arithmetic described in the x02 Chapter Introduction. The returned value is equal to $b^{e_{\min}-1}$, where b is the arithmetic base (see nag_real_base (X02BHC)) and e_{\min} is the minimum exponent (see nag_real_min_exponent (X02BKC)) in the model.

4 References

None.

5 Arguments

None.

6 Error Indicators and Warnings

None.

7 Accuracy

None.

8 Parallelism and Performance

nag_real_smallest_number (X02AKC) is not threaded in any implementation.

9 Further Comments

None.

10 Example

None.
