

NAG Library Function Document

nag_real_largest_number (X02ALC)

1 Purpose

nag_real_largest_number (X02ALC) returns the largest positive floating-point number.

2 Specification

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

3 Description

nag_real_largest_number (X02ALC) is a constant defined in the C Header file.

nag_real_largest_number (X02ALC) returns the largest positive number in the model of floating-point arithmetic described in the x02 Chapter Introduction. The returned value is equal to $(1 - b^{-p}) \times b^{e_{\max}}$, where b is the arithmetic base (see nag_real_base (X02BHC)) and e_{\max} is the maximum exponent (see nag_real_max_exponent (X02BLC)) in the model.

4 References

None.

5 Arguments

None.

6 Error Indicators and Warnings

None.

7 Accuracy

None.

8 Parallelism and Performance

nag_real_largest_number (X02ALC) is not threaded in any implementation.

9 Further Comments

None.

10 Example

None.
