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 \( \frac{1}{b^p} \times b^{e_{\text{max}}} \), where \( b \) is the arithmetic base (see nag_real_base (X02BHC)) and \( e_{\text{max}} \) 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
Not applicable.

9 Further Comments
None.

10 Example
None.