

NAG Library Function Document

nag_is_nan (x07abc)

1 Purpose

nag_is_nan (x07abc) determines whether a floating-point number is a NaN (Not A Number).

2 Specification

```
#include <nag.h>
#include <nagx07.h>
Nag_Boolean nag_is_nan (double x)
```

3 Description

nag_is_nan (x07abc) returns Nag_TRUE if and only if *x* is a NaN, and returns Nag_FALSE otherwise.

4 References

IEEE (2008) *Standard for Floating-Point Arithmetic* **IEEE Standard 754-2008** IEEE, New York.

5 Arguments

1: *x* – double *Input*
On entry: the number whose status is to be determined.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

nag_is_nan (x07abc) is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in nag_is_finite (x07aac).
