

# 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

Not applicable.

### 9 Further Comments

None.

### 10 Example

See Section 10 in nag\_is\_finite (x07aac).

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