

NAG Library Function Document

nag_create_infinity (x07bac)

1 Purpose

nag_create_infinity (x07bac) creates a signed infinite value.

2 Specification

```
#include <nag.h>
#include <nagx07.h>
void nag_create_infinity (Integer isign, double *x)
```

3 Description

nag_create_infinity (x07bac) sets **x** to be positive or negative infinity.

4 References

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

5 Arguments

- 1: **isign** – Integer *Input*
On entry: determines the sign of the infinity to be created.
If **isign** is greater than or equal to 0, a positive infinity is returned, otherwise a negative infinity is returned.
- 2: **x** – double * *Output*
On exit: the required infinite value.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

nag_create_infinity (x07bac) is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in nag_is_finite (x07aac).
