

NAG Library Routine Document

X07BAF

Note: before using this routine, please read the Users' Note for your implementation to check the interpretation of *bold italicised* terms and other implementation-dependent details.

1 Purpose

X07BAF creates a signed infinite value.

2 Specification

```
SUBROUTINE X07BAF (ISIGN, X)
  INTEGER          ISIGN
  REAL (KIND=nag_wp) X
```

3 Description

X07BAF 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 | <i>Input</i> |
| | <i>On entry:</i> 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 – REAL (KIND=nag_wp) | <i>Output</i> |
| | <i>On exit:</i> the required infinite value. | |

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Parallelism and Performance

X07BAF is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in X07AAF.
