

NAG Library Routine Document

X07BAF

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 Parameters

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 – REAL (KIND=nag_wp) *Output*

On exit: the required infinite value.

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

See Section 9 in X07AAF.
