

NAG Library Routine Document

X02AKF

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

X02AKF returns the smallest positive floating-point number.

2 Specification

```
FUNCTION X02AKF ()  
REAL (KIND=nag_wp) X02AKF
```

3 Description

X02AKF returns the smallest positive number in the model of floating-point arithmetic described in the X02 Chapter Introduction. The returned value is equal to $b^{e_{\min}-1}$, where b is the arithmetic base (see X02BHF) and e_{\min} is the minimum exponent (see X02BKF) in the model.

4 References

None.

5 Arguments

None.

6 Error Indicators and Warnings

None.

7 Accuracy

None.

8 Parallelism and Performance

X02AKF is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in X02AJF.
