

# 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

*double precision* FUNCTION 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 Parameters

None.

### 6 Error Indicators and Warnings

None.

### 7 Accuracy

None.

### 8 Further Comments

None.

### 9 Example

See Section 9 in X02AJF.

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