

# NAG Library Routine Document

## X07CBF

### 1 Purpose

X07CBF sets the current IEEE exception halting mode.

### 2 Specification

```
SUBROUTINE X07CBF (EXCEPTIONMODE)
```

```
INTEGER EXCEPTIONMODE(3)
```

### 3 Description

X07CBF sets the current IEEE exception halting mode for the three common exceptions: overflow, divide-by-zero and invalid operation.

### 4 References

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

### 5 Parameters

1: EXCEPTIONMODE(3) – INTEGER array *Input*

*On entry:* each of the three elements of EXCEPTIONMODE must contain any nonzero value if the corresponding condition should raise an exception, and contain 0 otherwise. EXCEPTIONMODE(1) concerns floating point overflow, EXCEPTIONMODE(2) concerns floating point division by zero, and EXCEPTIONMODE(3) concerns floating point invalid operation.

### 6 Error Indicators and Warnings

None.

### 7 Accuracy

Not applicable.

### 8 Further Comments

None.

### 9 Example

See Section 9 in X07AAF.

---