

NAG Library Routine Document

X07CBF

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

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 Arguments

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 Parallelism and Performance

X07CBF is not threaded in any implementation.

9 Further Comments

None.

10 Example

See Section 10 in X07AAF.