

NAG Library Routine Document

X07CAF

1 Purpose

X07CAF gets the current IEEE exception halting mode.

2 Specification

```
SUBROUTINE X07CAF (EXCEPTIONMODE)  
INTEGER EXCEPTIONMODE(3)
```

3 Description

X07CAF gets 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 *Output*
- On exit:* each of the three elements of EXCEPTIONMODE is set to 1 if the corresponding condition will raise an exception, and is set to 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

Not applicable.

9 Further Comments

None.

10 Example

See Section 10 in X07AAF.
