

NAG Fortran Library Routine Document

F06JLF (IDAMAX)

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

F06JLF (IDAMAX) returns, via the function name, the smallest index i such that

$$|x_i| = \max_j |x_j|$$

where x is an n element real vector.

2 Specification

```
INTEGER FUNCTION F06JLF (N, X, INCX)
  INTEGER          N, INCX
  double precision X(*)
```

The routine may be called by its BLAS name *idamax*.

3 Description

None.

4 References

None.

5 Parameters

- | | | |
|----|--|--------------|
| 1: | N – INTEGER | <i>Input</i> |
| | <i>On entry:</i> n , the number of elements in x . | |
| 2: | $X(*)$ – double precision array | <i>Input</i> |
| | <i>On entry:</i> the vector x . | |
| 3: | INCX – INTEGER | <i>Input</i> |
| | <i>On entry:</i> the increment in the subscripts of X between successive elements of x . | |
| | <i>Constraint:</i> $INCX > 0$. | |

6 Error Indicators and Warnings

None.
