

NAG Fortran Library Routine Document

F06JMF (IZAMAX)

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

F06JMF (IZAMAX) returns, via the functions name, the smallest index i such that

$$|\operatorname{Re} x_i| + |\operatorname{Im} x_i| = \max_j (|\operatorname{Re} x_j| + |\operatorname{Im} x_j|)$$

where x is an n element complex vector.

2 Specification

```
INTEGER FUNCTION F06JMF (N, X, INCX)
```

```
INTEGER N, INCX
```

```
complex*16 X(*)
```

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

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(*) – <i>complex*16</i> 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.
