

NAG Fortran Library Routine Document

F06JJF (DZNRM2)

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

F06JJF (DZNRM2) returns the Euclidean norm

$$\|x\|_2 = \sqrt{x^H x}$$

of the n element complex vector x , via the function name.

2 Specification

```
double precision FUNCTION F06JJF (N, X, INCX)
  INTEGER          N, INCX
  complex*16      X(*)
```

The routine may be called by its BLAS name *dznrm2*.

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.
