

NAG Library Routine Document

F06JKF (DZASUM)

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

F06JKF (DZASUM) returns the norm

$$|\operatorname{Re}(x_1)| + |\operatorname{Im}(x_1)| + \cdots + |\operatorname{Re}(x_n)| + |\operatorname{Im}(x_n)|$$

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

2 Specification

```
double precision FUNCTION F06JKF(N, X, INCX)
      INTEGER                                N, INCX
      complex*16                             X(*)
```

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

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> |
| | Note: the dimension of the array X must be at least $1 + (N - 1) \operatorname{INCX} $. | |
| | <i>On entry:</i> the incremented array X must contain the n element 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> $\operatorname{INCX} > 0$. | |

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

None.
