

# NAG Fortran Library Routine Document

## F06EKF (DASUM)

**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

F06EKF (DASUM) returns the 1-norm

$$|x_1| + |x_2| + \cdots + |x_n|$$

of the  $n$  element real vector  $x$ , via the function name.

### 2 Specification

```
double precision FUNCTION F06EKF (N, X, INCX)
  INTEGER                                N, INCX
double precision                        X ( * )
```

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

### 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(*) – <b><i>double precision</i></b> 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.