

NAG Library Routine Document

F06KFF

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

F06KFF copies a real vector to a complex vector.

2 Specification

```
SUBROUTINE F06KFF(N, X, INCX, Y, INCY)
INTEGER          N, INCX, INCY
double precision X(*)
complex*16      Y(*)
```

3 Description

F06KFF performs the operation

$$y \leftarrow x$$

where x is an n element real vector, and y is an n element complex vector.

4 References

None.

5 Parameters

- | | | |
|----|---|---------------|
| 1: | N – INTEGER | <i>Input</i> |
| | <i>On entry:</i> n , the number of elements in x and y . | |
| 2: | X(*) – double precision array | <i>Input</i> |
| | Note: the dimension of the array X must be at least $1 + (N - 1) \text{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 . | |
| 4: | Y(*) – complex*16 array | <i>Output</i> |
| | Note: the dimension of the array Y must be at least $\max(1, 1 + (N - 1) \text{INCY})$. | |
| | <i>On exit:</i> the vector y scattered with a stride of INCY. Intermediate elements of Y are unchanged. | |
| 5: | INCY – INTEGER | <i>Input</i> |
| | <i>On entry:</i> the increment in the subscripts of Y between successive elements of y . | |

6 Error Indicators and Warnings

None.

7 Accuracy

Not applicable.

8 Further Comments

None.

9 Example

None.
