

NAG Fortran Library Routine Document

F06FDF

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

F06FDF performs the operation

$$y \leftarrow \alpha x$$

where x and y are n element real vectors, and α is a real scalar.

2 Specification

```
SUBROUTINE F06FDF (N, ALPHA, X, INCX, Y, INCY)
  INTEGER          N, INCX, INCY
  double precision ALPHA, X(*), Y(*)
```

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 and y . | |
| 2: | ALPHA – double precision | <i>Input</i> |
| | <i>On entry:</i> the scalar α . | |
| 3: | X(*) – double precision array | <i>Input</i> |
| | <i>On entry:</i> the vector x . | |
| 4: | INCX – INTEGER | <i>Input</i> |
| | <i>On entry:</i> the increment in the subscripts of X between successive elements of x . | |
| 5: | Y(*) – double precision array | <i>Input/Output</i> |
| | <i>On entry:</i> an array Y. | |
| | <i>On exit:</i> the vector y scattered with a stride of INCY. Intermediate elements of Y are unchanged. | |
| 6: | 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.
