NAG Fortran Library Routine Document

F06ECF (DAXPY)

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

F06ECF (DAXPY) performs the operation

$$y \leftarrow \alpha x + y$$

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

2 Specification

```
SUBROUTINE F06ECF (N, ALPHA, X, INCX, Y, INCY)
INTEGER             N, INCX, INCY
double precision    ALPHA, X(*), Y(*)
```

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

3 Description

None.

4 References

None.

5 Parameters

1: N – INTEGER *Input*

On entry: n, the number of elements in x and y.

2: ALPHA – ***double precision*** *Input*

On entry: the scalar α.

3: X$(*)$ – ***double precision*** array *Input*

On entry: the vector x.

4: INCX – INTEGER *Input*

On entry: the increment in the subscripts of X between successive elements of x.

5: Y$(*)$ – ***double precision*** array *Input/Output*

On entry: the vector y.

On exit: the updated vector y.

6: INCY – INTEGER *Input*

On entry: the increment in the subscripts of Y between successive elements of y.

6 Error Indicators and Warnings

None.