NAG Fortran Library Routine Document

F06JDF (ZDSCAL)

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

F06JDF (ZDSCAL) performs the operation

$$x \leftarrow \alpha x$$

where x is an n element complex vector, and α is a real scalar.

2 Specification

```
SUBROUTINE F06JDF (N, ALPHA, X, INCX)
INTEGER              N, INCX
double precision     ALPHA
complex*16           X(*)
```

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

3 Description

None.

4 References

None.

5 Parameters

1: N – INTEGER *Input*

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

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

On entry: the scalar α.

3: X($*$) – ***complex*16*** array *Input/Output*

On entry: the vector x.

On exit: the vector αx.

4: INCX – INTEGER *Input*

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

Constraint: INCX > 0.

6 Error Indicators and Warnings

None.