NAG Fortran Library Routine Document

F06FEF (DRSCL)

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

F06FEF (DRSCL) performs the operation

$$y \leftarrow \frac{1}{\alpha}x$$

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

2 Specification

```
SUBROUTINE F06FEF (N, ALPHA, X, INCX)
INTEGER            N, INCX
double precision   ALPHA, X(*)
```

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

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.

Constraint: ALPHA $\neq 0$.

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

On entry: the vector x.

On exit: the vector $\frac{1}{\alpha}x$.

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.