

NAG Fortran Library Routine Document

F06GDF (ZSCAL)

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

F06GDF (ZSCAL) performs the operation

$$x \leftarrow \alpha x$$

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

2 Specification

```
SUBROUTINE F06GDF (N, ALPHA, X, INCX)
  INTEGER          N, INCX
  complex*16      ALPHA, X(*)
```

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

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 . | |
| 2: | ALPHA – complex*16 | <i>Input</i> |
| | <i>On entry:</i> the scalar α . | |
| 3: | X(*) – complex*16 array | <i>Input/Output</i> |
| | <i>On entry:</i> the vector x . | |
| | <i>On exit:</i> the vector αx . | |
| 4: | INCX – INTEGER | <i>Input</i> |
| | <i>On entry:</i> the increment in the subscripts of X between successive elements of x . | |
| | <i>Constraint:</i> INCX > 0. | |

6 Error Indicators and Warnings

None.