

# NAG Fortran Library Routine Document

## F06HBF

**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

F06HBF performs the operation

$$x \leftarrow (\alpha, \alpha, \dots, \alpha)^T,$$

where  $x$  is an  $n$  element complex vector.

### 2 Specification

```
SUBROUTINE F06HBF (N, CON, X, INCX)
  INTEGER          N, INCX
  complex*16     CON, X(*)
```

### 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: | CON – <b>complex*16</b>   | <i>Input</i>        |
|    | <i>On entry:</i> the scalar $\alpha$ .  |                     |
| 3: | X(*) – <b>complex*16</b> array  | <i>Input/Output</i> |
|    | <i>On entry:</i> an array X.  |                     |
|    | <i>On exit:</i> the vector $x$ scattered with a stride of INCX. Intermediate elements of X are unchanged. |                     |
| 4: | INCX – INTEGER  | <i>Input</i>        |
|    | <i>On entry:</i> the increment in the subscripts of X between successive elements of $x$ .                |                     |

### 6 Error Indicators and Warnings

None.

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