NAG Fortran Library Routine Document

F06GVF (ZGTHRZ)

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

F06GVF (ZGTHRZ) gathers specified (usually non-zero) elements of a complex vector y in full storage form into a sparse complex vector x in compressed form. The specified elements of y are set to zero.

2 Specification

```
SUBROUTINE F06GVF (NZ, Y, X, INDX)
INTEGER            NZ, INDX(*)
complex*16         Y(*), X(*)
```

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

3 Description

None.

4 References

None.

5 Parameters

1: NZ – INTEGER *Input*

On entry: the number of elements in the compressed vector x.

2: Y$(*)$ – ***complex*16*** array *Input/Output*

On entry: the vector y. Only elements corresponding to indices in INDX are accessed.

On exit: the elements of y corresponding to indices in INDX are set to zero.

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

On exit: the compressed vector x.

4: INDX$(*)$ – INTEGER array *Input*

On entry: the indices of the elements in the compressed vector x.

6 Error Indicators and Warnings

None.