

NAG Fortran Library Routine Document

F06EVF (DGTHRZ)

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

F06EVF (DGTHRZ) gathers specified (usually non-zero) elements of a real vector y in full storage form into a sparse real vector x in compressed form. The specified elements of y are set to zero.

2 Specification

```
SUBROUTINE F06EVF (NZ, Y, X, INDX)
  INTEGER          NZ, INDX(*)
  double precision Y(*), X(*)
```

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

3 Description

None.

4 References

None.

5 Parameters

- | | | |
|----|--|---------------------|
| 1: | NZ – INTEGER | <i>Input</i> |
| | <i>On entry:</i> the number of elements in the compressed vector x . | |
| 2: | Y(*) – double precision array | <i>Input/Output</i> |
| | <i>On entry:</i> the vector y . Only elements corresponding to indices in INDX are accessed. | |
| | <i>On exit:</i> the elements of y corresponding to indices in INDX are set to zero. | |
| 3: | X(*) – double precision array | <i>Output</i> |
| | <i>On exit:</i> the compressed vector x . | |
| 4: | INDX(*) – INTEGER array | <i>Input</i> |
| | <i>On entry:</i> the indices of the elements in the compressed vector x . | |

6 Error Indicators and Warnings

None.