NAG Fortran Library Routine Document

F06EUF (DGTHR)

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

F06EUF (DGTHR) gathers specified (usually non-zero) elements of a real vector y in full storage form into a sparse real vector x in compressed form.

2 Specification

```
SUBROUTINE F06EUF (NZ, Y, X, INDX)
INTEGER            NZ, INDX(*)
double precision   Y(*), X(*)
```

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

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$(*)$ – ***double precision*** array *Input*

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

3: X$(*)$ – ***double precision*** 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.