NAG Fortran Library Routine Document

F06GSF (ZDOTCI)

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

F06GSF (ZDOTCI) returns, via the function name, the value of the scalar product

$$x^H y$$

where x is a sparse complex vector stored in compressed form, and y is a complex vector in full storage form.

2 Specification

```
complex*16 FUNCTION F06GSF (NZ, X, INDX, Y)
INTEGER                     NZ, INDX(*)
complex*16                  X(*), Y(*)
```

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

3 Description

None.

4 References

None.

5 Parameters

1: NZ – INTEGER *Input*

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

2: X($*$) – ***complex*16*** array *Input*

On entry: the compressed vector x.

3: INDX($*$) – INTEGER array *Input*

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

4: Y($*$) – ***complex*16*** array *Input*

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

6 Error Indicators and Warnings

None.