



- M is an INTEGER variable which must be set by the user to  $m$  the order of the matrix.
- IX is an INTEGER variable which must be set by the user to the first dimension of the array X.
- W is a COMPLEX (COMPLEX\*16 in the D version) (see §2.2) array of length at least  $2m$  which is used by the subroutine as workspace.

## 2.2 The COMPLEX argument types

To conform to the Fortran 77 standard the array arguments listed as COMPLEX (COMPLEX\*16 in the D version) in §2.1 should strictly be REAL (DOUBLE PRECISION in the D version) arrays with an extra first dimension of 2, e.g.

```
REAL A(2,10),B(2,10),X(2,8,8),W(2,20)
REAL VALUE(10)
- - -
CALL EC08C(A,B,VALUE,X,5,8,W)
```

Most implementations of Fortran allow such arguments to be passed in the more convenient form of COMPLEX (COMPLEX\*16 in the D version).

## 3 GENERAL INFORMATION

**Use of common:** None.

**Workspace:** See argument W.

**Other routines called directly:** EA08C/CD.

**Input/output:** None.

**Portability:** EC08CD uses COMPLEX\*16 facility.