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Copy a Scattered Vector

UCOCOP and UDICOP copy the contents of a scattered vector into a new scattered vector.

Structure:

SUBROUTINE subprograms
User Entry Names: UCOCOP, UDICOP

Usage:

```
CALL UCOCOP(A,X,IDO,IW,NA,NX)
CALL UDICOP(A,X,IDO,IW,NA,NX)
```

extract IDO times IW consecutive words from A, every NA words, and place them into X, every NX words. Both routines have the same effect if the vectors A and X do not overlap. UCOCOP allows concentration, UDICOP allows dilation of a vector *in situ*.

For IDO = 0 or IW = 0, the routines act as 'do-nothing'.

Examples:

```
DIMENSION IA(14),IX(12)
DATA IA /1,2,3,4, 5,6,7,8, 9,10,11,12, 13,14/

CALL UCOCOP(IA,IX,4,2,4,3)
CALL UCOCOP(0,IX(3),4,1,0,3)
```

gives

```
IX = 1,2,0, 5,6,0, 9,10,0, 13,14,0
```

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