Author(s) : F. Carminati, M. Jonker, J. Zoll **Library:** KERNLIB, VAX and DECSTATION only
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Fast VAX Byte Inversion

These routines do VAX byte inversions `1-2-3-4` to `4-3-2-1` in each word of an array, either in-place or copied.

Structure:

`SUBROUTINE` subprogram
User Entry Names: `VXINVB`, `VXINVC`

Usage:

```
CALL VXINVB(IXV,N)
```

inverts four bytes in each of the `N words` at array `IXV`, in-place.

```
CALL VXINVC(IV,IXV,N)
```

copies the `N` words at array `IV` to array `IXV`, with the bytes inverted in each word.

On DEC machines bytes read from a disk file are loaded in memory in reverse order. One of the above routines, applied to the result of a binary read from a disk file, causes the bytes to be stored in each 32 bits word in the same order than in the disk file. This is useful when reading a binary file transferred through a network from a foreign system, in order to preserve the order of the bytes in each 32 bits word. Please note that several network utilities include the possibility to perform a bytes inversion in the network protocol. Note also that when reading or writing from a magnetic tape, the bytes may be swapped in pairs and not in groups of 4.

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