LOCBYT	CERN Program Library	M428

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Language : Fortran or Assembler **Revised:** 15.09.1978

Search for Byte-Content

LOCBYT searches through a vector in steps of 1 or more words looking for the first word which has a certain bit configuration in a certain part of the word.

Structure:

FUNCTION subprogram
User Entry Names: LOCBYT

Usage:

```
J = LOCBYT(IT,VECT,N,INC,L,NBITS)
```

searches through the N element vector VECT, but only looking every INC words for the first word which contains IT in the byte (L,NBITS), and returns its address in J which may be 1, INC+1, 2*INC+1, 3*INC+1, etc.

IT must contain the desired byte value right-justified with zero-fill.

J = 0 is returned if such a word is not found, or if N = 0.

The byte (L,NBITS) is a byte of NBITS bits, occupying the bits L,L+1, ... ,L+NBITS-1. The bits are numbered as with the routines of BITBYT (M421) / PACBYT (M422): L = 1, 2, 3, . . .; bit 1 is the least significant bit of the word.

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