NAME
      bit -- bit extraction

SYNOPSIS
      bit(hi,lo)
      int hi, lo;

DESCRIPTION
      This subroutine returns a binary number that is the bit extrac-
      tion of a specified field within a 32-bit binary number contained
      in the external variable, WORD.   The bits in WORD are numbered 0
      to 31 going from right to left.

      This subroutine has two arguments, hi and lo, which specify the
      field to be extracted. Hi is the number of the left-most bit to
      be extracted, while lo is the number of the right-most bit to be
      extracted. Hi minus lo must be less than sixteen.

      The global variables used are:
            int WORD[2];

LIBRARY
      /lib/lib1.a

SEE ALSO
      lbit(3L)

BUGS
      No checks are made on the reasonableness of the hi and lo and no
      error conditions are returned. If (hi - lo) is greater than 15,
      then 16 bits are returned; if (hi - lo) is less than 0, then 0 is
      returned.