.text
# double dblmean(double *vec, unsigned len)
# Find arithmetic mean of double-precision floating point array.
dblmean: move $t0, $a1       # n = len
      li.d $f0, 0.0            # sum = 0.0 ; pseudoinstruction

  dml:    beq   $a1, $zero, dmr  # if (len == 0) return

          l.d  $f2, ($a0)      # sum += *vec
          add.d $f0, $f0, $f2   # l.d is another pseudoinstruction
          addi  $a0, $a0, 8     # vec++, len--
          addi  $a1, $a1, -1
          j      dml

  dmr:    mtc1 $t0, $f2       # sum /= (double)n
          mtc1 $0, $f3
          cvt.d.w $f2, $f2      # Convert word to double
          div.d $f0, $f0, $f2   # Remember that $f0 as a double includes
          $f1
          jr   $ra