```
        .data
test:   .space 4
        .text
    .globl main
main:   li $t0, 0x11223344  # number to be converted supposed to be in $t0
    la $t1, test
    sw $t0, ($t1)       # store to address pointed by label test

# start of conversion
    mul $t1, $t0, 256
    li $t2, 0x00FF0000  # $t2 contains mask 0x00FF0000
    and $t3, $t1, $t2   # byte 2 valid
    div $t1, $t0, 256
    li $t2, 0x0000FF00  # $t2 contains mask 0x0000FF00
    and $t1, $t1, $t2   # byte 1 valid
    or $t3, $t3, $t1
    mul $t1, $t0, 16777216
    li $t2, 0xFF000000  # $t2 contains mask 0xFF000000
    and $t1, $t1, $t2   # byte 3 valid
    or $t3, $t3, $t1
    div $t1, $t0, 16777216
    li $t2, 0x000000FF  # $t2 contains mask 0x000000FF
    and $t1, $t1, $t2   # byte 0 valid
    or $t3, $t3, $t1    # little endian-number in $t3



    la $t1, test
    sw $t3, ($t1)       # store to address pointed by label test


    jr $ra
```