

```

        .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
        rol $t1, $t0, 8
        li $t2, 0x00FF00FF # $t2 contains mask 0x00FF00FF
        and $t3, $t1, $t2  # byte 0 and 2 valid
        ror $t1, $t0, 8
        not $t2, $t2       # $t2 contains mask 0xFF00FF00
        and $t1, $t1, $t2  # byte 1 and 3 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

```