

I

The order I allocated this is: a, z, A, Z, 0, 1, 9 This is the memory dump:

007a		0061		z a
005a		0041		Z A
0031		0030		1 0
0000		0039		\0 9

From this we understand that the computer I use is Little-Endian (Intel Core i5)

II

Memory map (saved in little-endian computer):

Hex: 007A		7978
Dec: 00122		31096

Readed as int (big-endian): $(0x78 \ll 6) \ 2013265920 + (0x79 \ll 4) \ 7929856 + (0x7A \ll 2) \ 31232 + (0x00 \ll 0) \ 0 = 2021227008$

Readed as int (little-endian): $(0x78 \ll 0) \ 120 + (0x79 \ll 2) \ 30976 + (0x7A \ll 4) \ 7995392 + (0x00 \ll 6) \ 0 = 8026488$

If the dump was of a big-endian computer, the results would be exactly the opposite.

III

QtSpim report "268500992" when I print "xyz\0" as integer. The result is different than what we expected in section II because, MIPS is a 16-bit processeor, in contrast with my calculations which where in 32-bit words.