

[illegible]

10-20ns: Fetch second BEQ instruction, \$t0 is now 0x00000000, and \$t2 is 0x00000002, thus will not branch.

10-30ns: Fetch the third SUB instruction. \$s0 = 0x15 \$s1 = 7, thus \$s0 = 0xE.

40-50ns: Fetch the fourth ADD instruction. \$t0 = 0 \$t1 = 1, thus \$t0 = 1.

50-60ns: Fetch the fifth J instruction. Jump to L1.

180-200ns: Fetch the second BEQ instruction. This time they are equal, branch to L2.

200-220ns: Fetch the sixth OR instruction. \$S0 = 7, \$t3 = 8. \$s2 = 0xF.

220-240ns: Fetch the seventh AND instruction. \$s2 = 0xF, \$s3 = 22. Thus, \$s2 = 6.

240-260ns: Fetch the eighth SW instruction. $\$s3 = 8, \$s2 = 6$. Thus, we store 6 to DMEM(0xC).

The result if we change DMEM(0x0) to 15 is 0x4.

(I was greatly inspired and taught by Ruoxi on this Lab)