CONJUNTO DE INSTRUÇÕES

INSTRUÇÃO	SIGNIFICADO
add \$1, \$2, \$3	\$1 = \$2 + \$3
sub \$1, \$2, \$3	\$1 = \$2 - \$3
beq \$1, \$2, LABEL	if (\$1 == \$2) goto LABEL
bne \$1, \$2, LABEL	if (\$1 != \$2) goto LABEL
j LABEL	goto LABEL
lw \$1, VALOR(\$2)	\$1 = MEM[VALOR+\$2]
sw \$1, VALOR(\$2)	MEM[VALOR+\$2] = \$1

destino fonte1 fonte2

- 1. add \$t0, \$zero, \$v0
- 2. add \$t1, \$t0, \$t2
- 3. sub \$s0, \$t3, \$t1
- 4. lw \$t4, 4(\$s0)
- 5. beq \$s0, \$t4, DENTRO
- 6. add \$t1, \$t2, \$t3
- 7. lw \$t0, 128(\$t1)
- 8. j EXIT

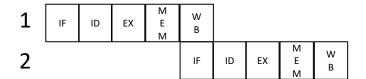
DENTRO:

- 9. sw \$t8, 0(\$s8)
- 10. sub \$t1, \$t2, \$t3
- 11. lw \$t0, 8(\$s1)

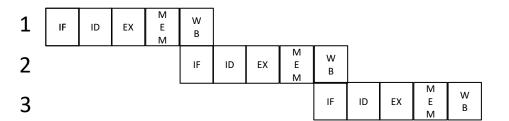
EXIT:

1 IF ID EX B W B

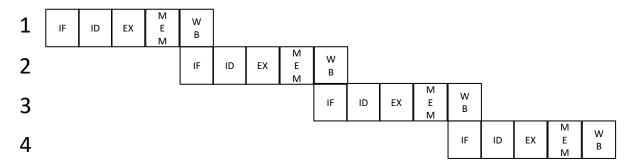
destino fonte1 fonte2 \$t0, \$zero, \$t0 \$v0 1. add \$v0 -\$zero 2. add \$t1, \$t0, \$t2 \$t0 \$t2 \$t1 \$t3 \$t1 **\$**s0

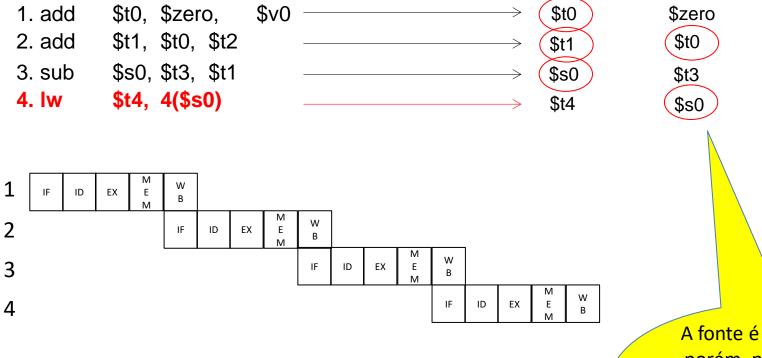












destino

fonte1

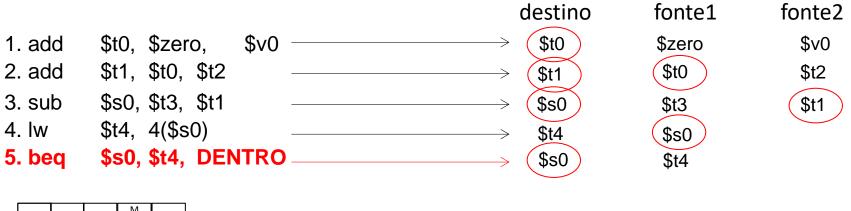
fonte2

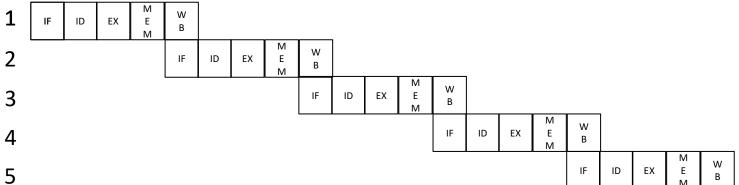
\$v0

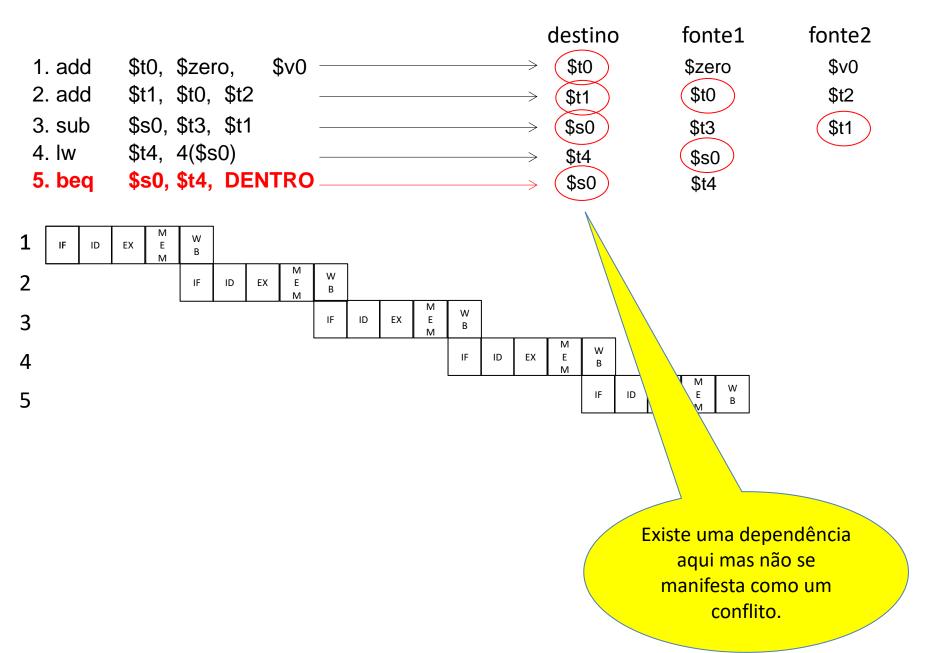
\$t2

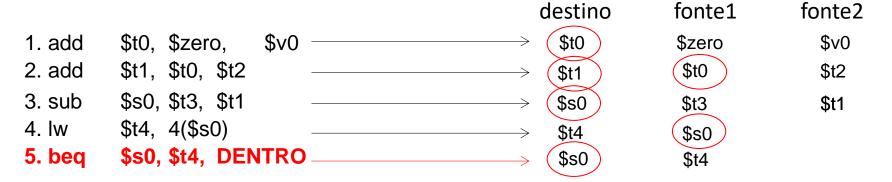
\$t1

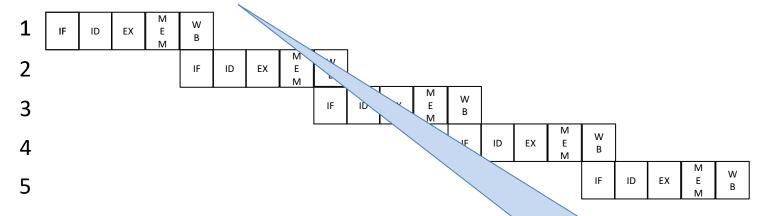
A fonte é a memória, porém, para saber o endereço de memória, é preciso ler o registrador \$s0





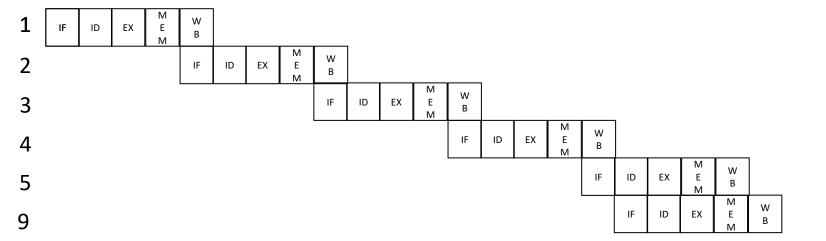




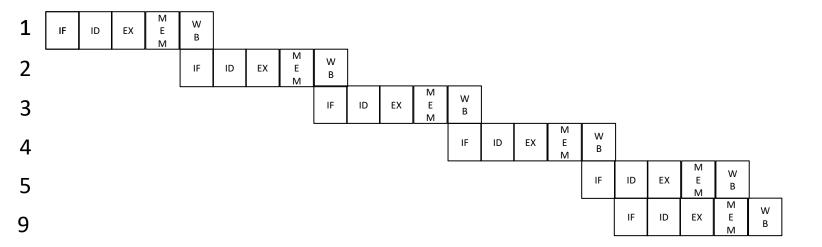


Instrução de salto: automaticamente SALTAR para o label e NÃO executar as instruções 6, 7 e 8.





			destino	fonte1	fonte2
1. add	\$t0, \$zero, \$v0 -	>	\$t0	\$zero	\$v0
2. add	\$t1, \$t0, \$t2 -	>	\$t1	\$t0	\$t2
3. sub	\$s0, \$t3, \$t1 -	\	\$s0	\$t3	\$t1
4. lw	\$t4, 4(\$s0)	\	\$t4	\$s0	
5. beq	\$s0, \$t4, DENTRO		\$s0	\$t4	
9. sw	\$t8, 0(\$s8)		\$t8	\$s8	
10. sub	\$t1, \$t2, \$t8		\$ s0	\$t3	\$t8



			destino	fonte1	fonte2
1. add	\$t0, \$zero, \$v0 -		\$t0	\$zero	\$v0
2. add	\$t1, \$t0, \$t2 -	>	• (\$t1)	\$t0	\$t2
3. sub	\$s0, \$t3, \$t1 -		\$s0	\$t3	\$t1
4. lw	\$t4, 4(\$s0)		\$t4	(\$s0)	
5. beq	\$s0, \$t4, DENTRO		\$s0	\$t4	
9. sw	\$t8, 0(\$s8)	>	\$t8	\$s8	
10. sub	\$t1, \$t2, \$t8		\$ s0	\$t3	\$t8

