$\$S_7 \to 1000$

$\$S_2 \quad \$S_0 \quad \$S_1$

Add $a = b + c$ → 64 bits

64-bit

	a	b	c
add	$\$S_2$, $\$S_5$	$\$S_1$, $\$S_4$	$\$S_0$, $\$S_3$

Lw $\$S_1$, 8 ($\$S_7$)

Lw $\$S_4$, 12 ($\$S_7$)

Lw $\$S_0$, 16 ($\$S_7$)

Lw $\$S_3$, 20 ($\$S_7$)

b	S_1	S_4
c	S_0	S_3
a	S_2	S_5

$A[i] =$

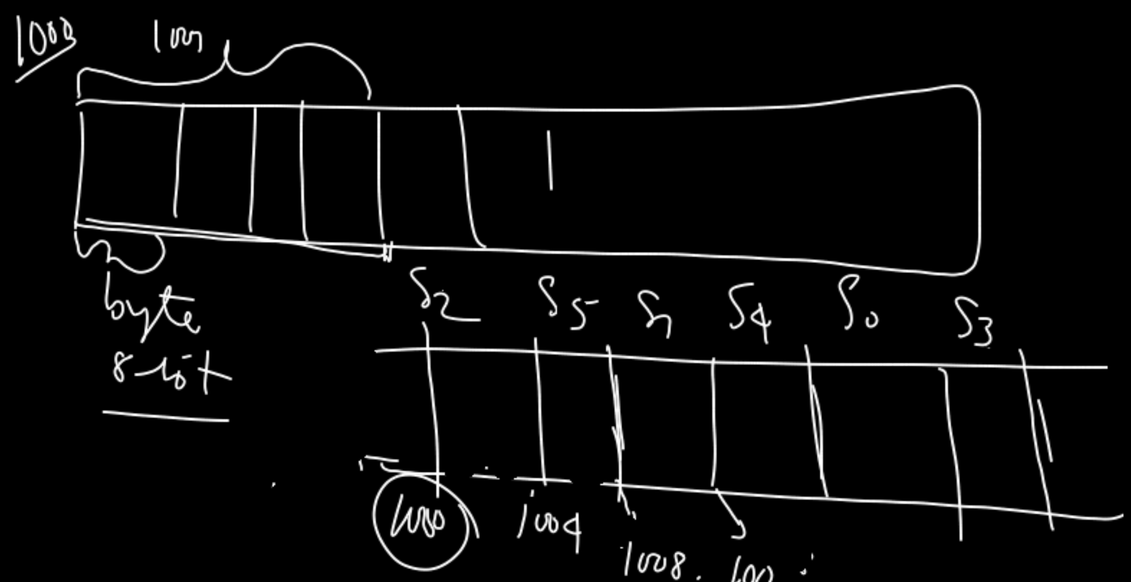
addu $\$S_5$ S_4 S_3

addu $\$t_1$ S_1 S_0

$\$ltu$ $\$t_3$ $\$S_5$ $\$S_4$

S_3

addu $\$S_2$ $\$t_1$ $\$t_3$



if (a = b)

c = g + h

else

c = g - h

a S_0
b S_1
c S_2
d S_3
e S_4
f S_5
g S_6
h S_7

beq S_0 , S_1 , ...

add S_2 S_6 S_7

sub S_2 S_6 S_7

add S_0 S_1 S_2

S_3 S_2 14

bne S_0 S_1 Else

jadd ENDIF S_2 S_6 S_7

Else

sub S_2 S_6 S_2

ENDIF