

CS 208

M, 27 April 2026

cmp R1, R2 (DIS 7.4.1)

computes $R2 - R1$

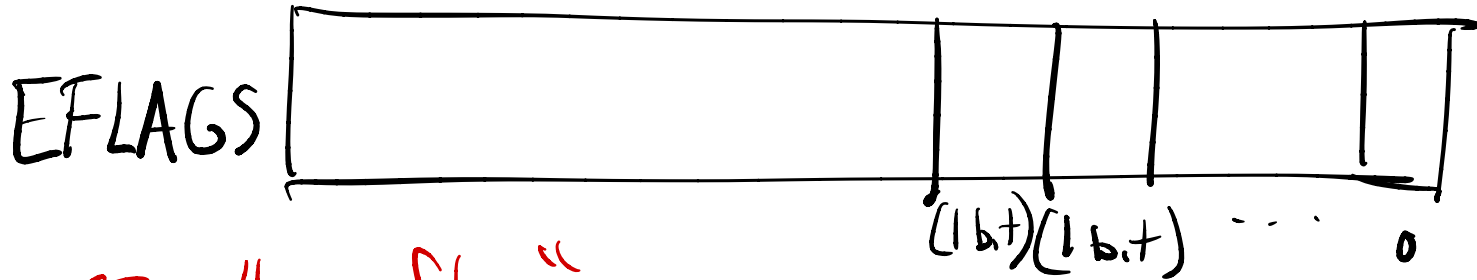
depending on result

SF = 1 if result < 0

SF = 0 if result \geq 0

ZF = 1 if result = 0

ZF = 0 if result \neq 0



SF = "sign flag"

ZF = "zero flag"

f1:

cmpl %esi, %edi
jge .L2

$a - b$
if ($a - b \geq 0$)
jump to L2

$f(5, 6)$
 $\rightarrow 5 - 6$
 $\rightarrow SF = 1$
 $ZF = 0$

$f1(\text{int } a, \text{int } b)$