





4 bita brothluti:  $1.010*2^2 \times 1.110*2^3 = 10.0011*2^5$ = 1.00011\*26= 1.001\*26

$$1.010*2^2 + 1.110*2^3 = (0.1010 + 1.1100)*2^3$$
  
=  $10.0110 * 2^3 = 1.00110 * 2^4 = 1.010 * 2^4$ 

		grax	эг	CF	UF	25	
xorq	%rax, %rax	0x0000 0000 0000 0000	0	0	0	1	
subq	\$1, %rax	0xffff ffff ffff ffff	1	1	0	0	
setl %	<pre>\$2, %rax %al %al, %eax</pre>	0xffff ffff ffff ffff	1	0	0	0	
		0xffff ffff ffff ff01	1	0	0	0	
		0x0000 0000 0000 0001	1	0	0	0	l

Ath.: setl og movzbl breyta ekki stýrikóðum

4\*R\*C Bæti

## int A[R][C]; Α [0] [R-1] [R-1] [0] [C-1]

## Stök í tvívíðu fylki

[0]

[0]

- int A[16][16];
- Vistfang: A + i \* (C \* K) + j \* K

- C = 16, K = 4	
# A in %rdi, i in %rsi, j in	%rdx
salq \$6, %rsi	# 64*i
addq %rsi, %rdi	# A + 64*i
movl (%rdi,%rdx,4), %eax	# Mem[A + 64*i + 4*j]
ret	

Geymslurými = (# bæti/geira) x (meðal# geira/braut) x (# brauta/yfirborði) x (# yfirborða/plötu) x (# plata/disk)

Meðaltími til að lesa tiltekinn geira er nokkurn veginn:

T<sub>access</sub> = T<sub>avg seek</sub> + T<sub>avg rotation</sub> + T<sub>avg transfer</sub>

## Dæmi um óvænt köst

Dæmi um samanburð fyrir W = 30: TMIN = -2,147,483,648, TMAX = 2,147,483,647

Fasti <sub>1</sub>	<b>Fasti₂</b> 0∪		Vens	Útreikningur unsigned			
-1	0		<	signed			
-1	<b>0</b> U		>	unsigned			
2147483647	-214748	3647-1	>	signed			
2147483647U	-2147483	3647-1	<	unsigned			
-1	O	61.11		cianad			
(unsigned)-1	setX	Skilyrði		ýsing			
2147483647	sete	ZF	J.	afnt / Núll			
	setne	setne ~ZF Ekki jafnt /					
2147483647	sets	SF	SF Neikvætt				
	setns	~SF	E	kki neikvætt			
	setg	~ (SF^OF) &	SF^OF) &~ZF Stærra (signed)				
	setge	~ (SF^OF)	S	tærra eða jafnt ( <i>signed</i> )			
	setl	SF^OF	SF^OF Minna (signed)				
	setle	(SF^OF)   Z	F N	Ainna eða jafnt (signed)			
	seta	~CF&~ZF	Y	fir (unsigned)			
	setb	CF Undir (unsigned)		Indir ( <i>unsigned</i> )			
	# %rdi = z						
	movl \$	0. %eax	#	i = 0			



