

ACCESSO A MEMORIA

(imm) \rightsquigarrow (\$00 ... FF)

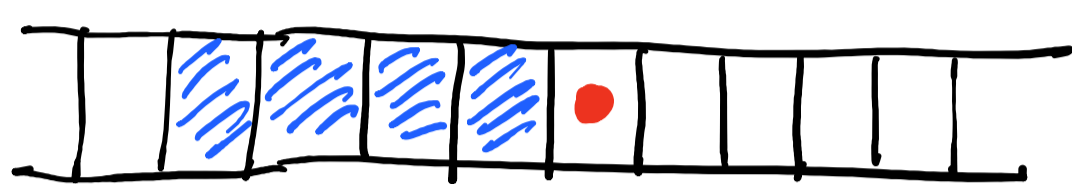
(R[Ei]) \rightsquigarrow (%eax)

void f(int x) { ...

%esp



4(%esp)



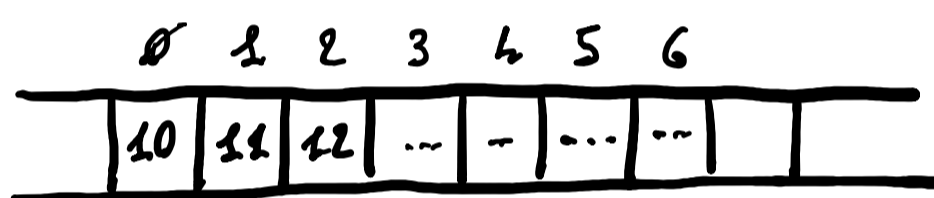
%esp \rightarrow +4

movl 4(%esp), %eax

dimensione dati = quanto dato a leggere
 accesso alla memoria = dove dato a leggere

movb (%ecx), %al

int array[7];



array \rightarrow %eax

(%eax) \rightarrow 10

4(%eax) \rightarrow 11

16(%eax) \rightarrow 14

BASE

ACCESSO IN MEMORIA CON BASE, INDICE E SCALA

imm(BASE, INDICE, SCALA)

registro

registro

1, 2, 4, 8

$$\text{Indirizzo} = \text{BASE} + \text{INDICE} * \text{SCALA} + \text{imm}$$

int array[7];

scala \rightarrow %eax

int d = array[3];

\rightarrow %edx

\rightarrow %ecx

movl (%eax, %ecx, 4), %edx



%eax

indirizzo

$$\text{Indirizzo} = \%eax + \%ecx * 4 = \%eax + 12$$