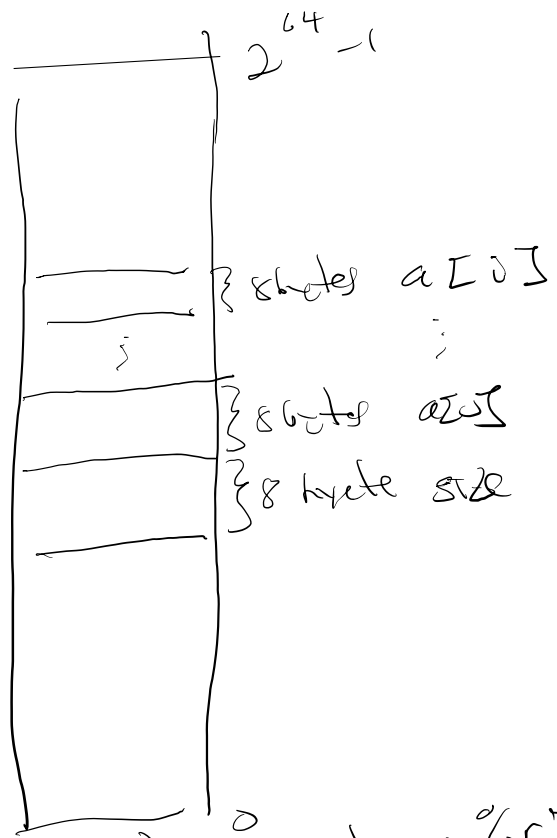


Array indexing in x86-64

$\%rcx = i \times$

$\%rax$ → address of 1st byte
of array



$\text{movq } \%r7, (\%rax, \%rcx, \$8)$

stores $\%r7$ in
 $a[i]$

$\text{movq } (\%rax, \%rcx, \$8), \%r7$

moves $a[i]$ to $\%r7$