





FP Basics

- Arguments passed in %xmm0, %xmm1, ...
- Result returned in %xmm0 •
- · All XMM registers caller-saved

<pre>float fadd(float x, float y) { return x + y; }</pre>	<pre>double dadd(double x, double y) { return x + y; }</pre>
<pre># x in %xmm0, y in %xmm1 addss %xmm1, %xmm0 ret</pre>	<pre># x in %xmm0, y in %xmm1 addsd %xmm1, %xmm0 ret</pre>







6

n X n Matrix Access

Array Elements

- Address A + i* (C*K) + j*K
- C = n, K = 4
- Must perform integer multiplication

/* Get element a[i][j] */
int var_ele(size_t n, int a[n][n], size_t i, size_t j)

return a[i][j];







































)

