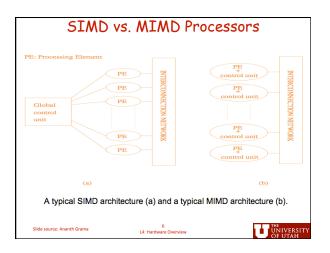
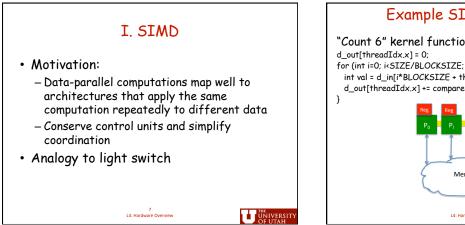
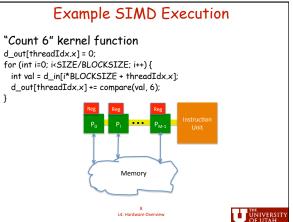
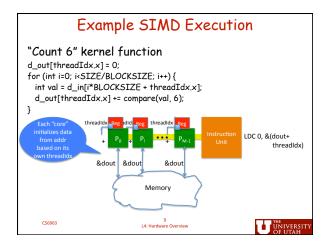


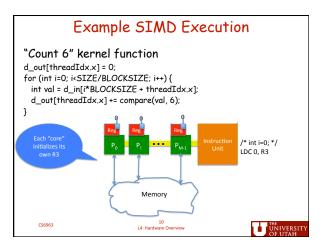
Predominant Control Mechanisms: Some definitions		
Name	Meaning	Examples
Single Instruction, Multiple Data (SIMD)	A single thread of control, same computation applied across "vector" elts	Array notation as in Fortran 95: A[1:n] = A[1:n] + B[1:n] Kernel fns w/in block: compute<< <gs,bs,msize>>></gs,bs,msize>
Multiple Instruction, Multiple Data (MIMD)	Multiple threads of control, processors periodically synch	OpenMP parallel loop: forall (i=0; i <n; i++)<br="">Kernel fns across blocks compute<<cgs,bs,msize>>>></cgs,bs,msize></n;>
Single Program, Multiple Data (SPMD)	Multiple threads of control, but each processor executes same code	<pre>Processor-specific code: if (\$threadIdx == 0) { }</pre>
C56963	Same code	

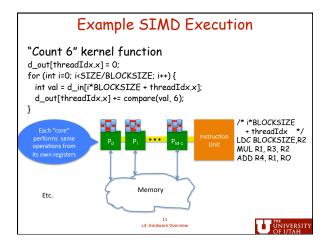


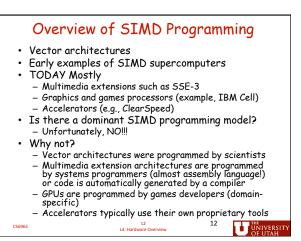


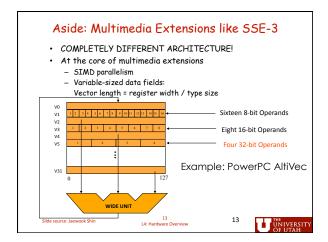


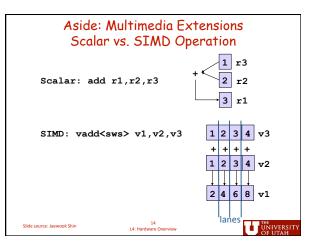


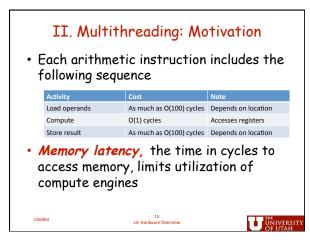


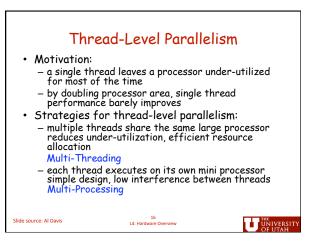


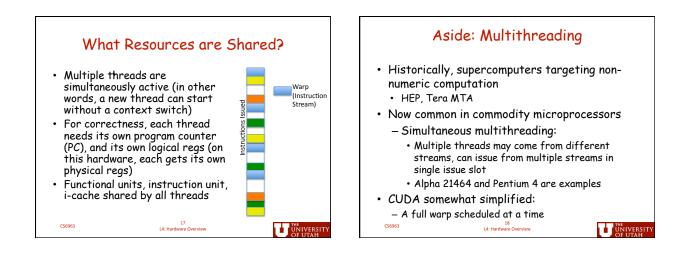


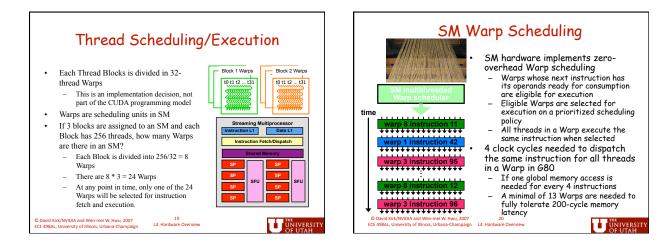


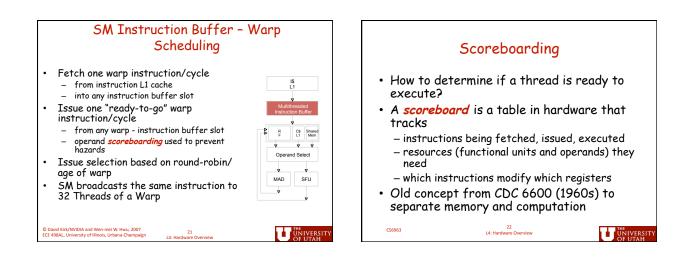


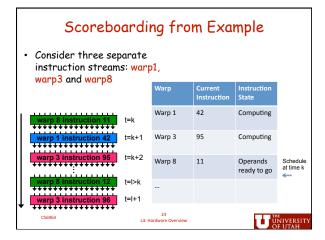


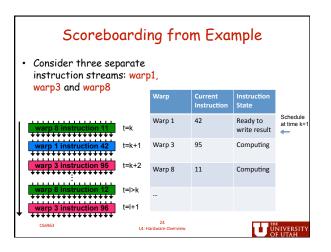


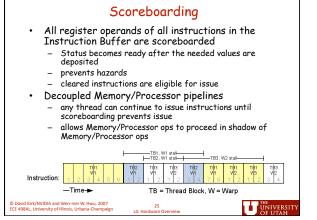


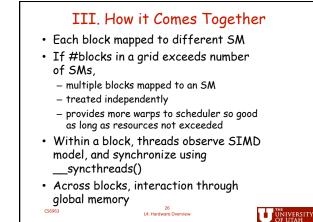


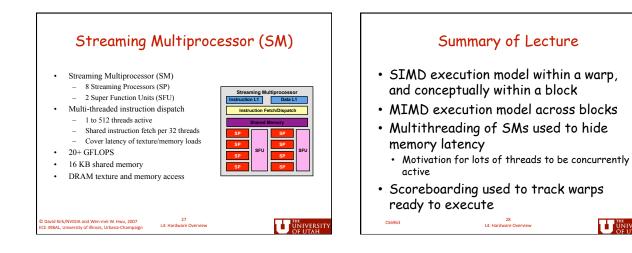












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