





What is Parallel Architecture?
 A parallel computer is a collection of processing elements that cooperate to solve large problems fast Some broad issues: Resource Allocation: How large a collection? How powerful are the elements? How much memory? Data access, Communication and Synchronization How do the elements cooperate and communicate? How are data transmitted between processors? What are the abstractions and primitives for cooperation? Performance and Scalability How does it all translate into performance?
O How does it scale? Nov-11-09 ECSE 420 Parallel Computing





















CAD	Database	Scientific modeling	Parallel applications
Multiprogramming	Shared address	Message Data passing parallel	Programming models
	Compilation or library Operating systems		Communication abstra
Co	Communication hadware		
Physic	cal communio	cation medium	

















































