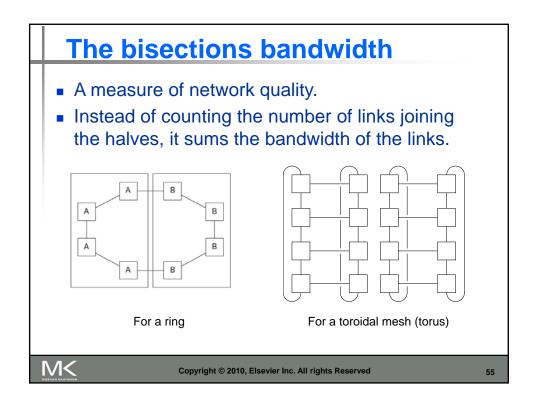
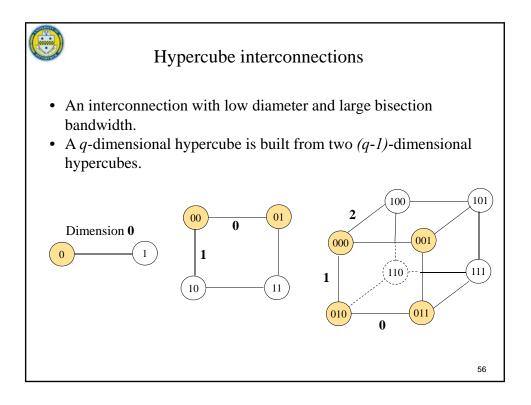
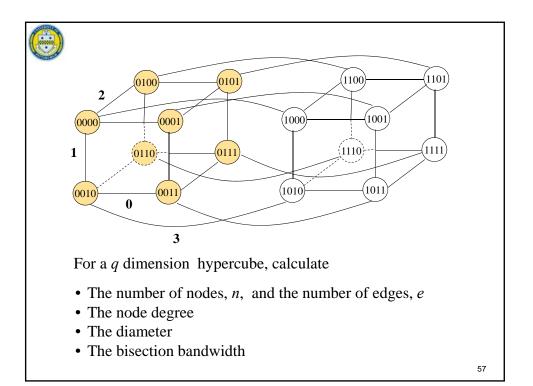
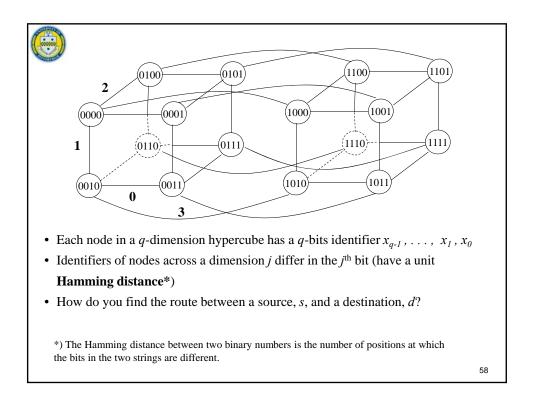


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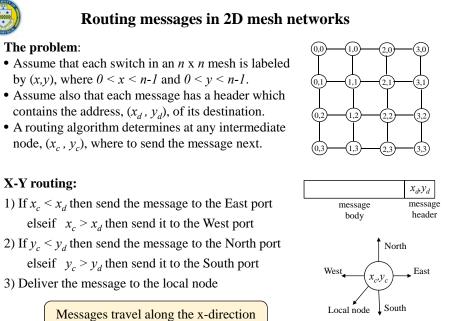




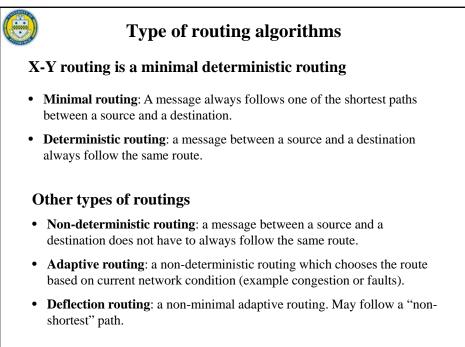


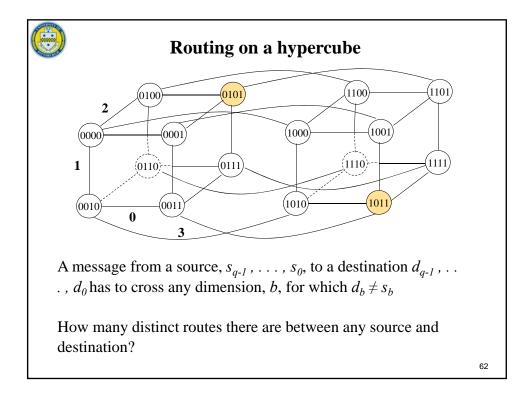


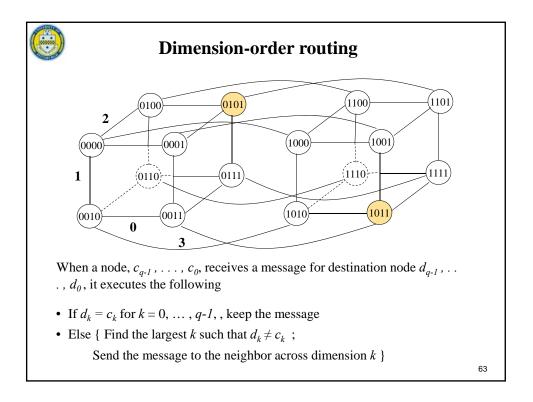
Common interconnection topologies								
						N = 1024		
	Туре	Degree	Diameter	Av Dist	Bisection	Diam	Av. D	
0-0-0								
<u> </u>	1D mesh	2	N-1	N/3	1			
	2D mesh	4	2(N ^{1/2} - 1)	2N ^{1/2} /3	N ^{1/2}	63	21	
	3D mesh	6	3(N ^{1/3} - 1)	3N ^{1/3} / 3	N ^{2/3}	~30	~10	
<u> </u>	Ring	2	N / 2	N/4	2			
कीकीक	2D torus	4	N ^{1/2}	N ^{1/2} / 2	2N ^{1/2}	32	16	
	k-ary n-cube (N = k ⁿ)	2n	n(N ^{1/n}) nk/2	nN ^{1/n} /2 nk/4	2k ⁿ⁻¹	15	8 (3D)	
	Hypercube	n	n = LogN	n/2	N/2	10	5	
								59

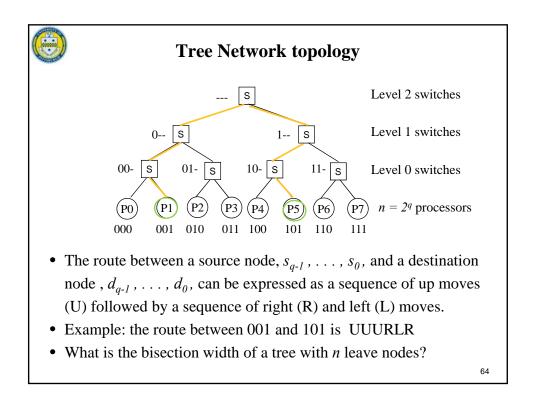


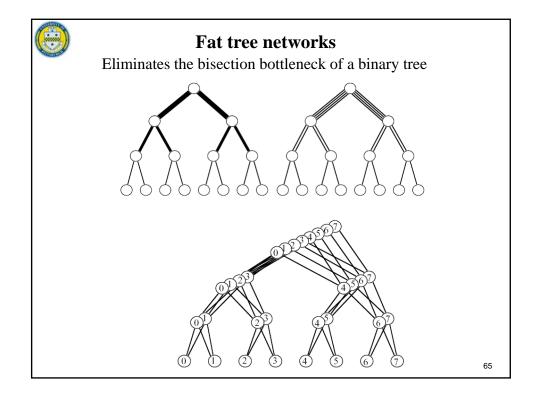
before traveling along the y-direction

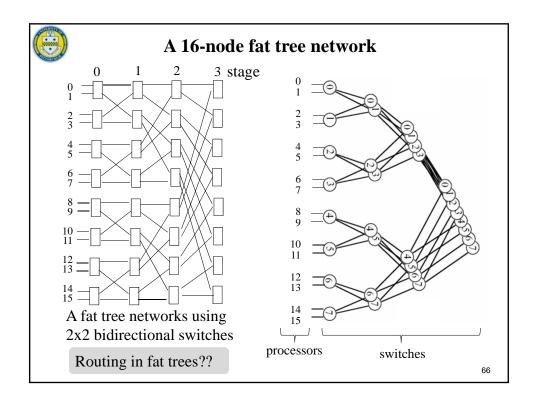


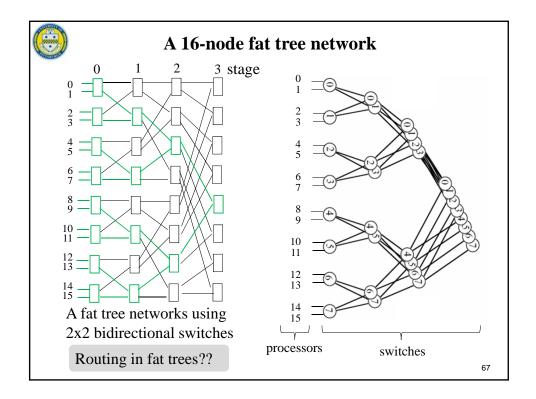


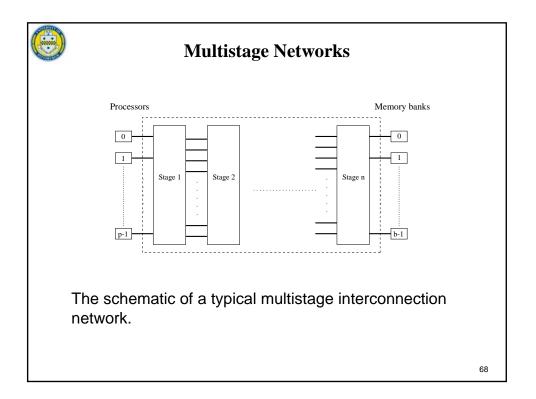














Multistage Omega Network

- A nxn Omega network consists of:
- log n stages,
- each stage has n/2, 2x2 switches
- Perfect shuffle connection between stages

