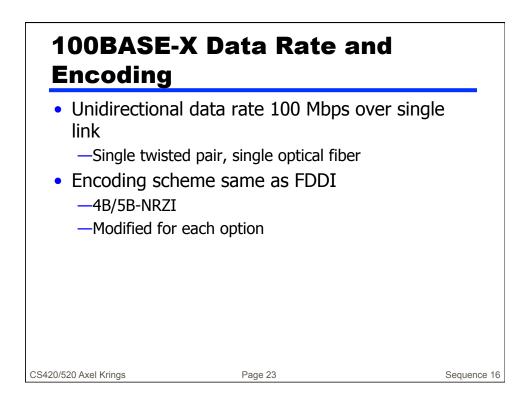
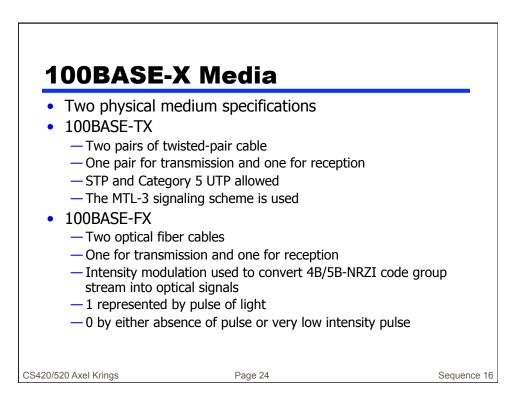
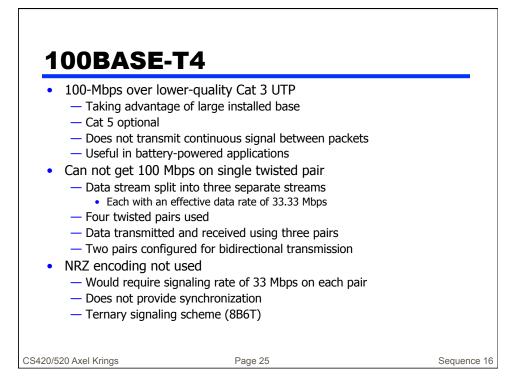
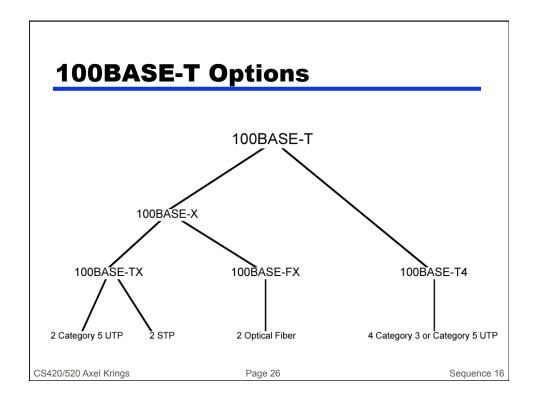


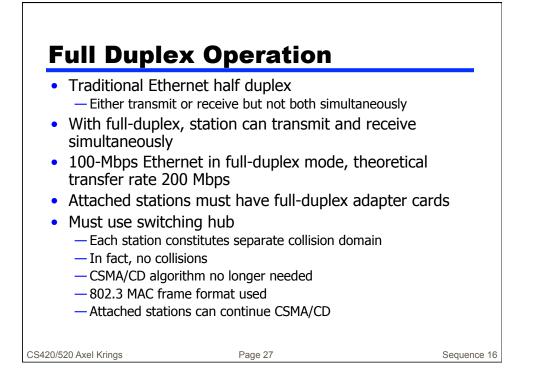
100Mbps (Fast Ethernet) Table 16.3 IEEE 802.3 100BASE-T Physical Layer Medium Alternatives 100BASE-TX 100BASE-FX 100BASE-T4 Transmission 2 pair, STP 2 pair, Category 2 optical fibers 4 pair, Category medium 5 UTP 3, 4, or 5 UTP MLT-3 4B5B, NRZI 8B6T, NRZ MLT-3 Signaling technique Data rate 100 Mbps 100 Mbps 100 Mbps 100 Mbps 100 m 100 m 100 m Maximum 100 m segment length 200 m 200 m 400 m 200 m Network span CS420/520 Axel Krings Page 22 Sequence 16

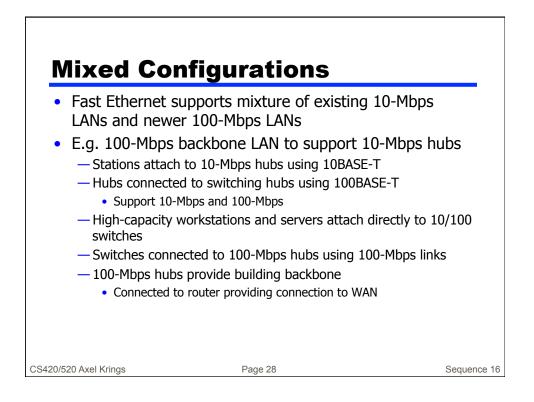


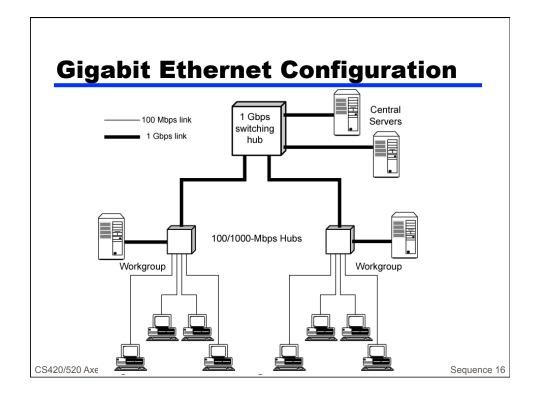


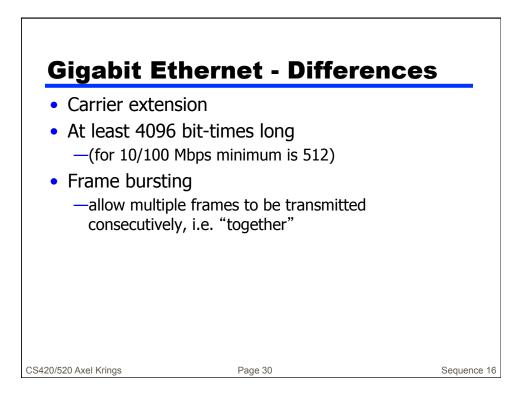


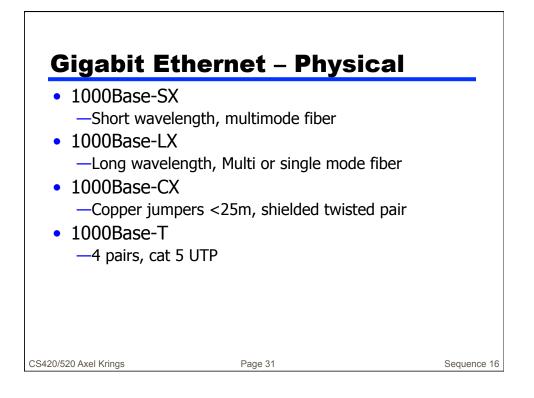


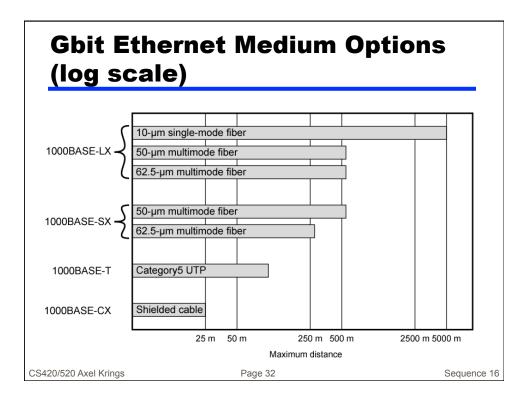


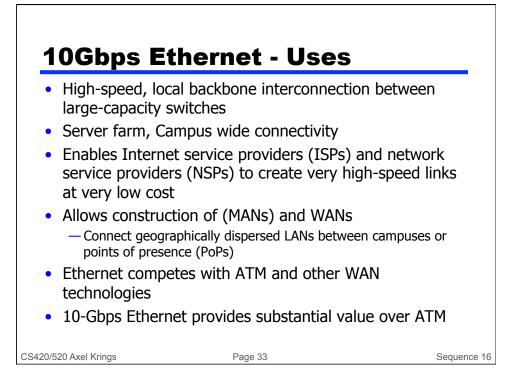


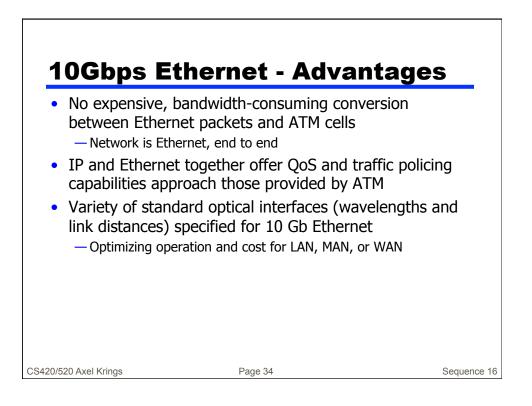


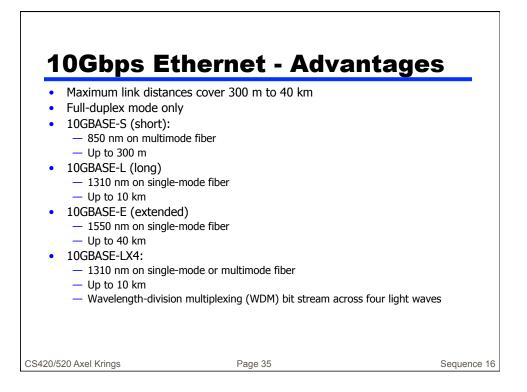


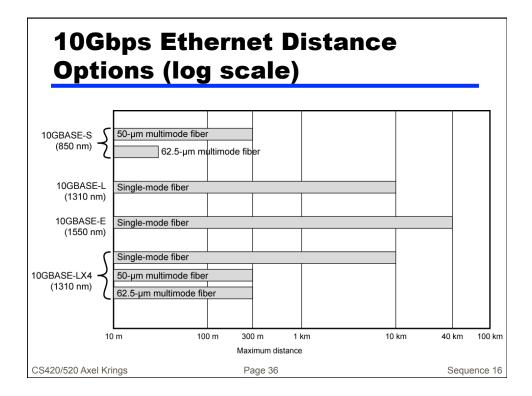


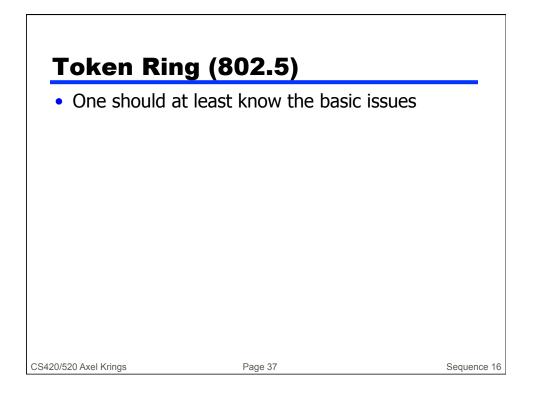




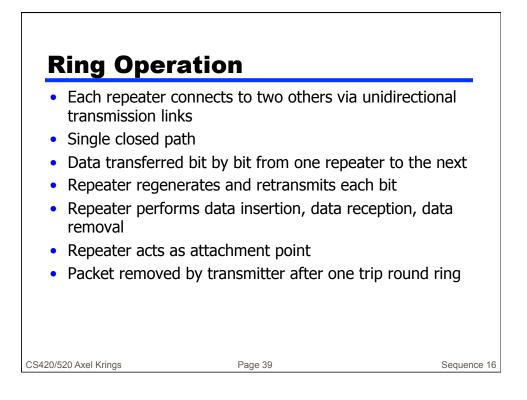


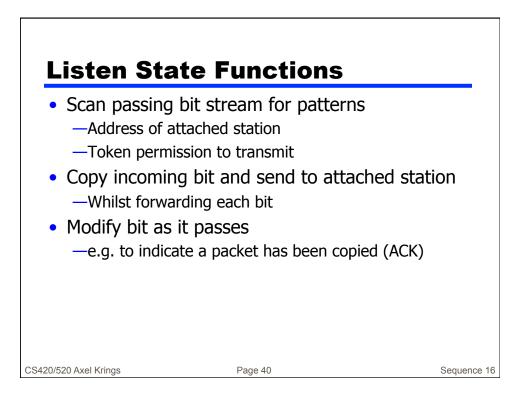


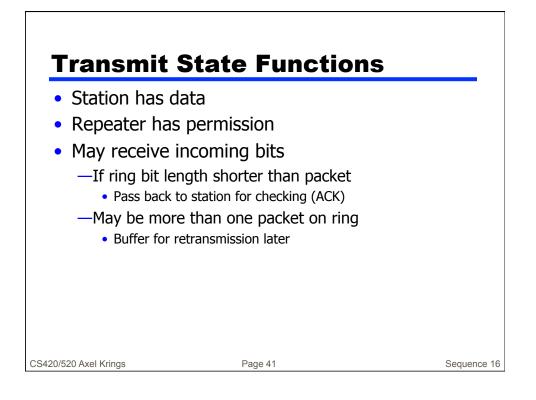


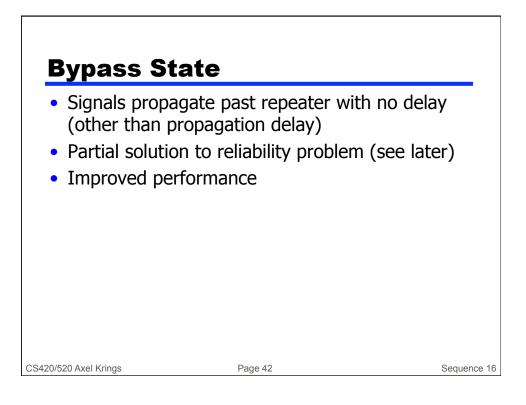


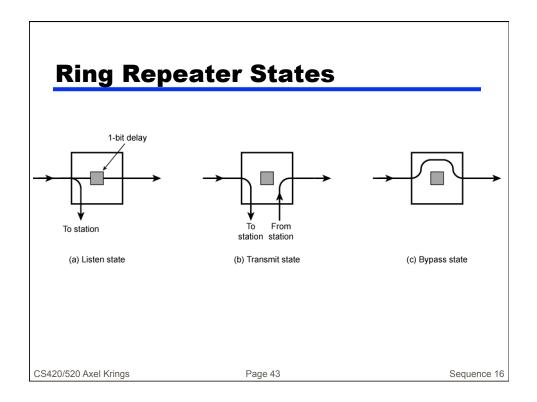


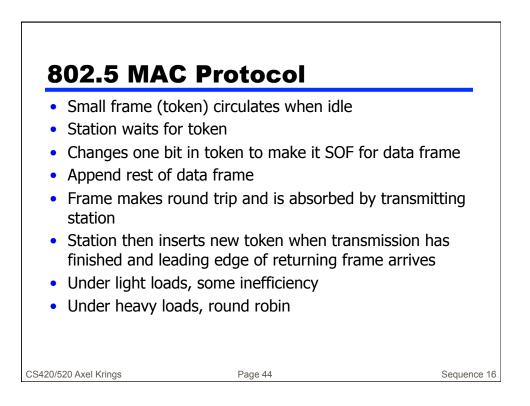


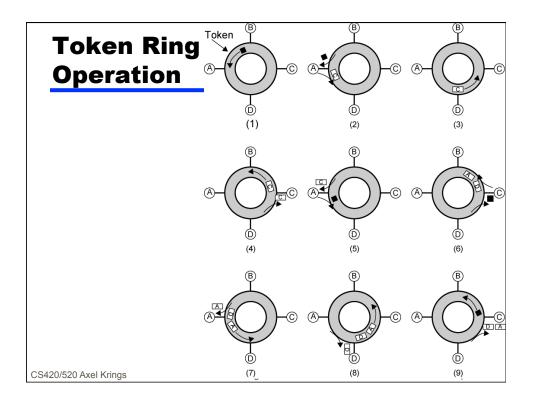






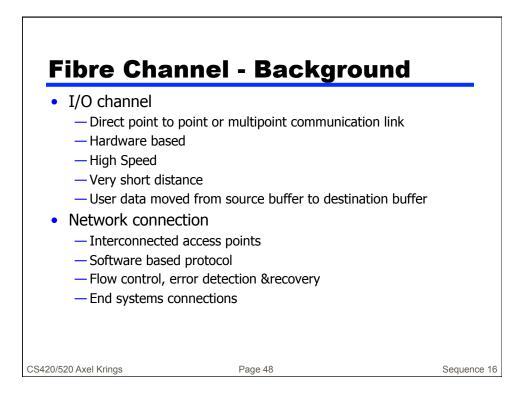


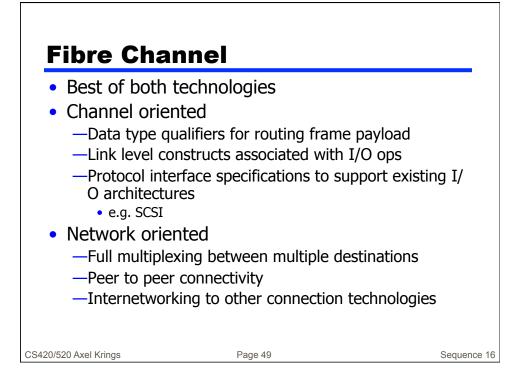


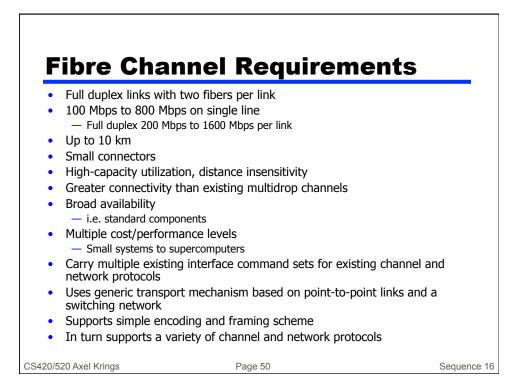


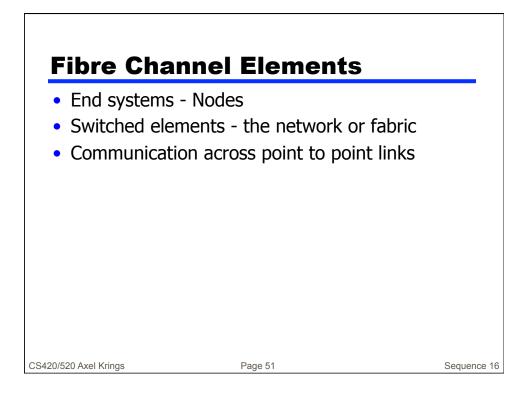
<section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item>

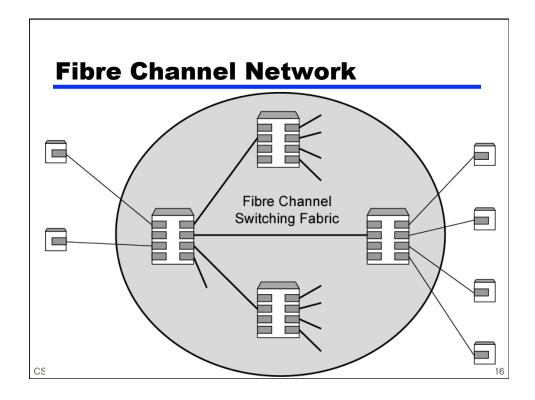
02.5 PI	hysica	al Lay	/er		
Date rate	4	16	100	100	1000
transmission medium	UTP or STP or fiber	UTP or STP or fiber	UTP or STP	Fiber	Fiber
Signaling	Diff Manchester	Diff. Manchester	MLT-3	4B5B, NRZI	8B/10B
Max frame size	4550	18,200	18,200	18,200	18,200
Access control	TP or DTR	TP or DTR	DTR	DTR	DTR
TP DTR	= token passin = dedicated to	ng access contro sken ring	bl		
520 Axel Krings		Page 47			Se

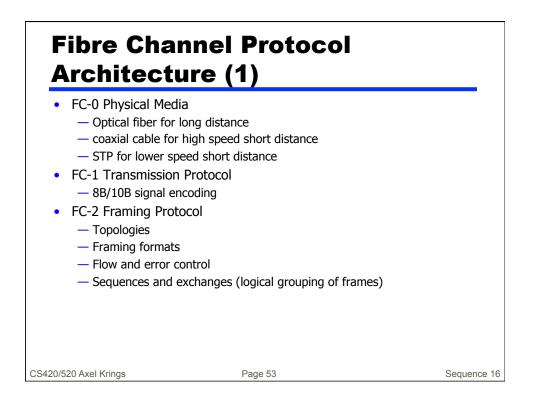


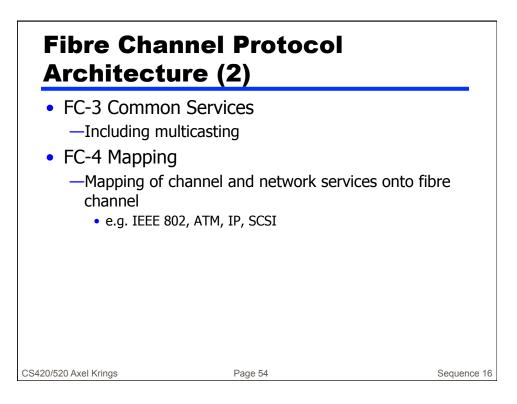












	Jiidiiie		cal Med	
]	800 Mbps	400 Mbps	200 Mbps	100 Mbps
Single mode fiber	10 km	10 km	10 km	—
50-µm multimode fiber	0.5 km	1 km	2 km	—
62.5-µm multimode fiber	175 m	1 km	1 km	_
Video coaxial cable	50 m	71 m	100 m	100 m
Miniature coaxial cable	14 m	19 m	28 m	42 m
Shielded twisted pair	28 m	46 m	57 m	80 m

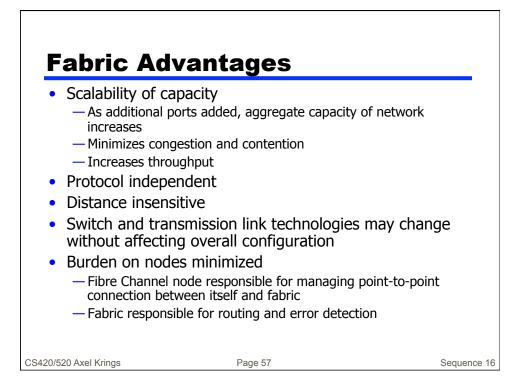
Fibre Channel Fabric

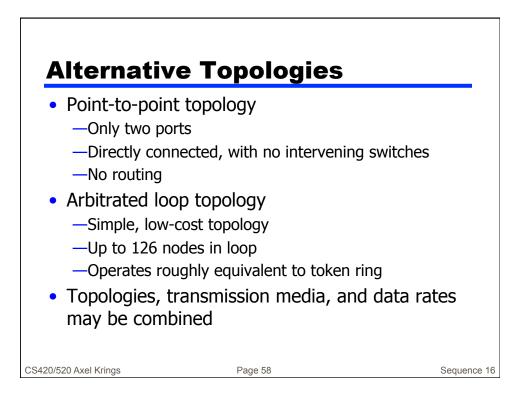
- General topology called fabric or switched topology
- Arbitrary topology includes at least one switch to interconnect number of end systems
- May also consist of switched network
 Some of these switches supporting end nodes
- Routing transparent to nodes
 - Each port has unique address
 - When data transmitted into fabric, edge switch to which node attached uses destination port address to determine location
 - Either deliver frame to node attached to same switch or transfers frame to adjacent switch to begin routing to remote destination

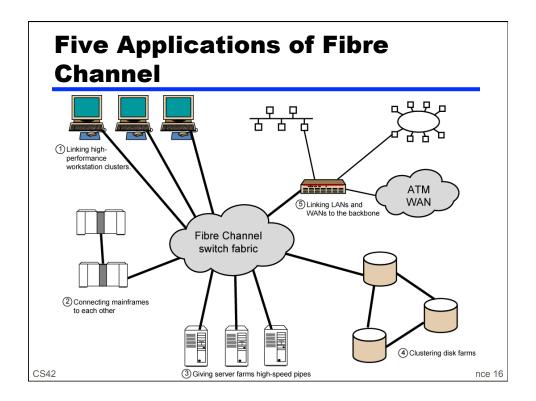
CS420/520 Axel Krings

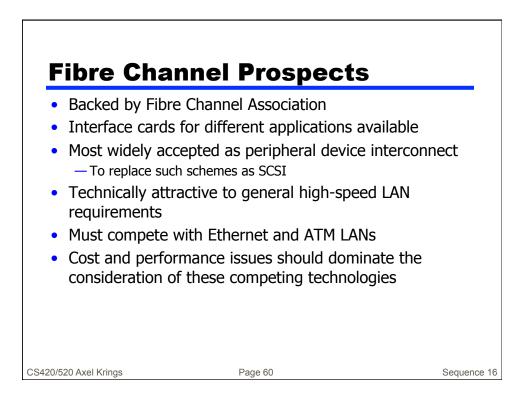
Page 56

Sequence 16









Summary		
 High speed LAN Ethernet technology CSMA & CSMA/ —10Mbps etherned —100Mbps etherned —10Gbps etherned —10Gbps etherned Fibre Channel 	ologies CD media access et net	
S420/520 Axel Krings	Page 61	Sequence 16