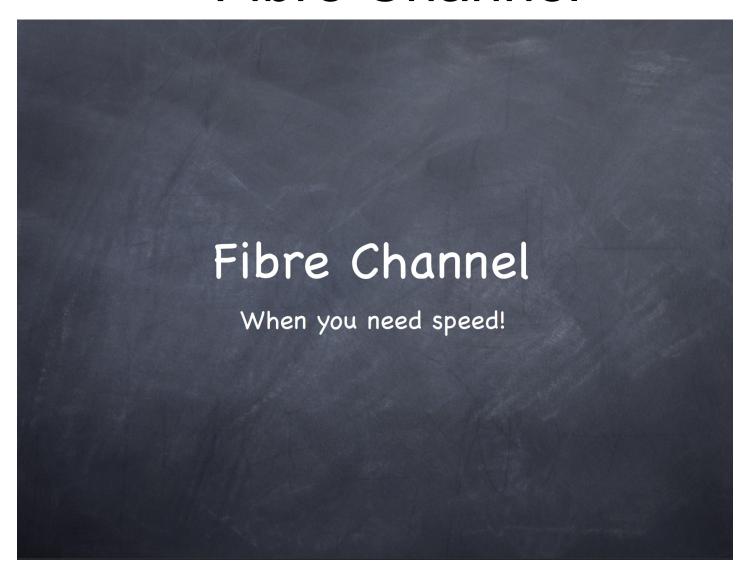
IT 609 Network and System Administration

Fibre Channel

Tuesday October 26, 2021

Fibre Channel



Fibre Channel

Networking standard

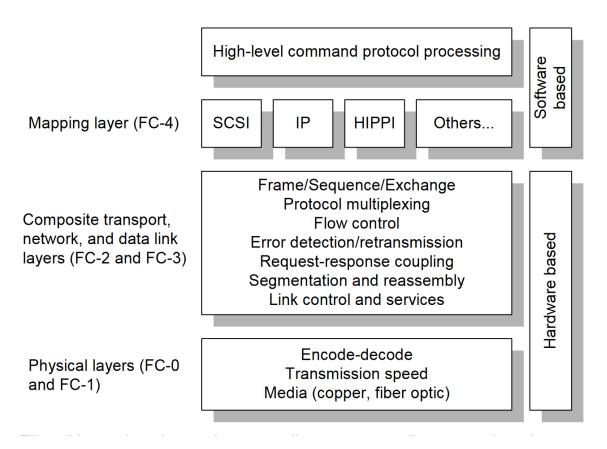
Very high speed

Flexible capabilities

Fiber optic or copper based

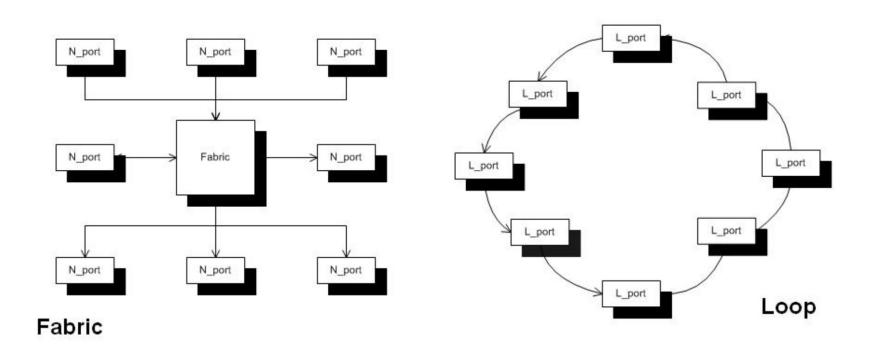
Frequently used for storage applications

Fibre Channel Lavers



From Avery, Lynne. 2001. Fibre Channel: Why another interface? http://www.exabyte.com/support/online/documentation/whitepapers/fcwhyinterface.pdf

Fibre Channel Topology





http://en.wikipedia.org/wiki/File:FC-Topologies.jpg

Fibre Channel Switch



http://upload.wikimedia.org/wikipedia/commons/0/0d/ML-QLOGICNFCCONN.JPG



Small form-factor pluggable transceiver

http://en.wikipedia.org/wiki/File:SFP-side.jpg

Fibre Channel Advantages

Speed

- 2 Gbps & 4 Gbps are the norm today
- 8 Gbps for high-end applications

Low error rate

No collisions possible

Error rate of $10^{-12} = 1$ bit for every 15 minutes

Hot pluggable/swappable

Long distances possible, up to 10 KM