

Thinking Inside the Box

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Discussion Outline

- Optical Transmission
- Internet Principles
- End-to-End Reliability

Optical Transmission

- The transition from 1Gbps signaling to 10Gbps, 100Gbps, 1Tbps
- Advanced modulation techniques
- Client interfaces for higher data rate transmission systems

Internet Principles

- Protocol design - Heartbleed bug
- Router design - complicated and expensive
- Careful what features you ask for

End-to-End Reliability

- Separate transmission from switching
- Restraint in the optical domain
- Apparently simple requests can lead to complex solutions

Q&A

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