



EEC 273

Winter 2012

**Reading Assignment #1 (Before Jan 12, 2012)**

**End-to-end argument**

1. Read

- [Cla88] D. Clark, "The Design Philosophy of the DARPA Internet Protocols", *SIGCOMM*, 106-114, Palo Alto, CA, Sept 1988.
- [Cla00] D. Clark. "Rethinking the Design of the Internet: end-to-end arguments vs. the brave new world." Presented at *TPRC*, Alexandria, VA, September 23-25th, 2000.  
<http://www.ece.ucdavis.edu/~chuah/classes/EEC273/reading.html>

2. Questions to ponder

- (a) What are 'end-to-end arguments'? How does the Internet today follow this design principle?
- (b) What are the new/emerging requirements of Internet today that may be inconsistent with the end-to-end argument?
- (c) What are the two broad classes of technical responses to these emerging requirements? What are some of the design issues associated with each approach?
- (d) Describe what redundant protocol mechanisms exist between transport (e.g. TCP) and data link layer (e.g., error control) and explain why it was designed that way and evaluate what you think of it.