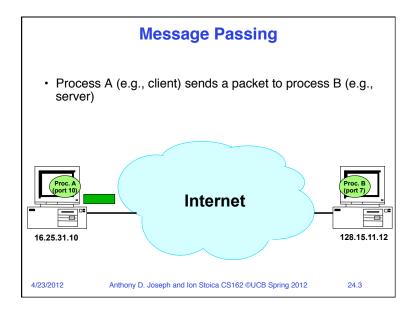
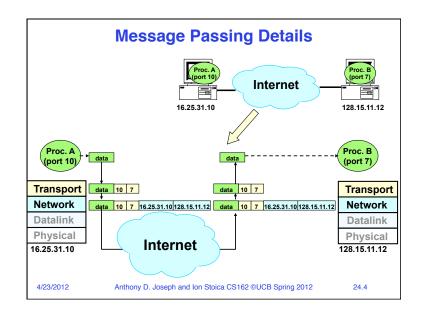


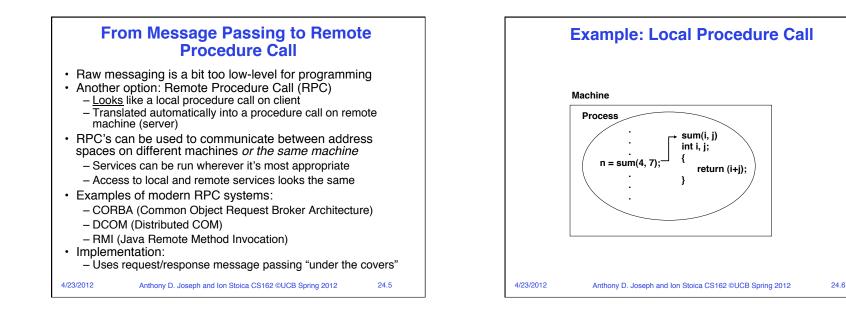
Client-Server

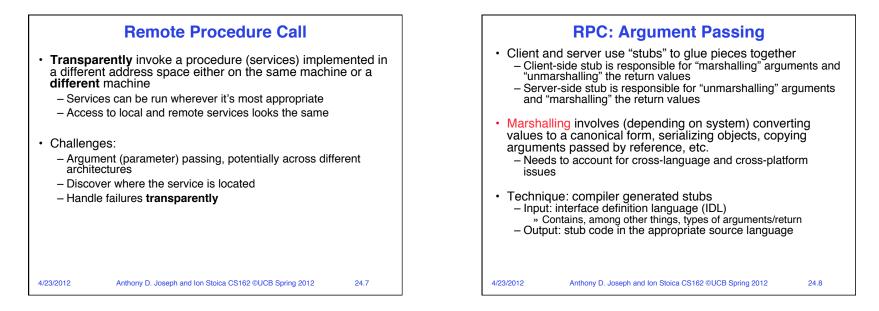
April 23, 2012 Anthony D. Joseph and Ion Stoica http://inst.eecs.berkeley.edu/~cs162

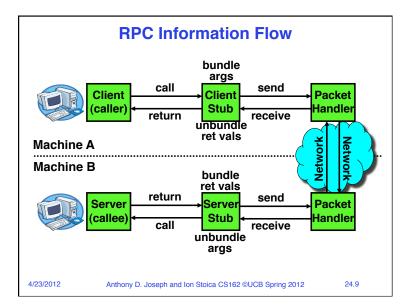


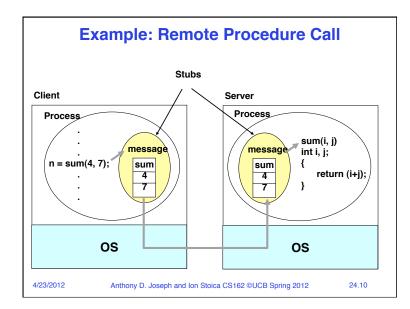


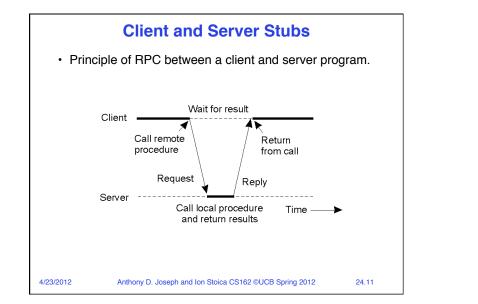


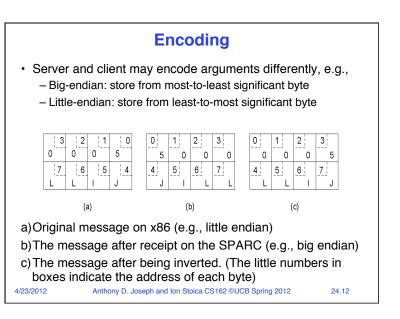


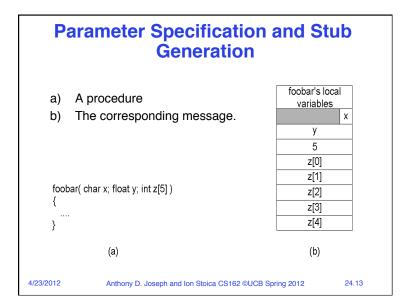


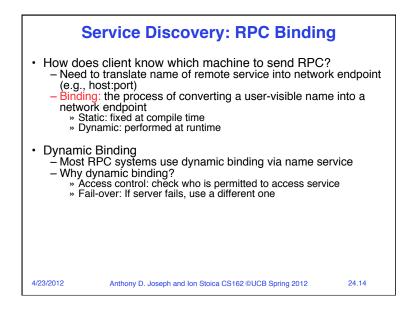


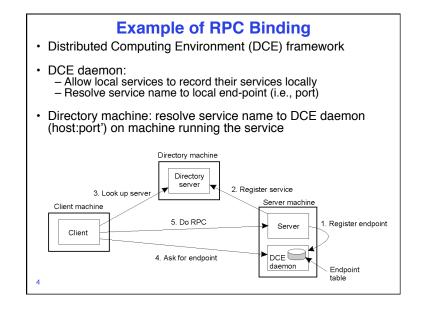






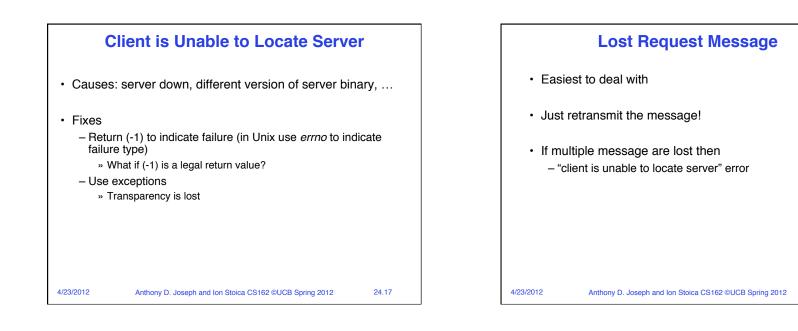


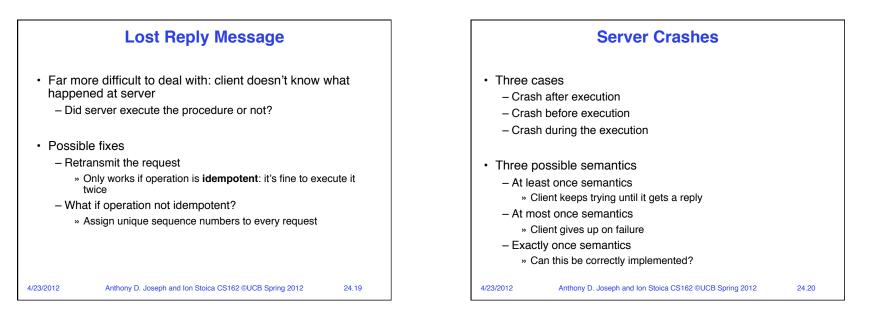




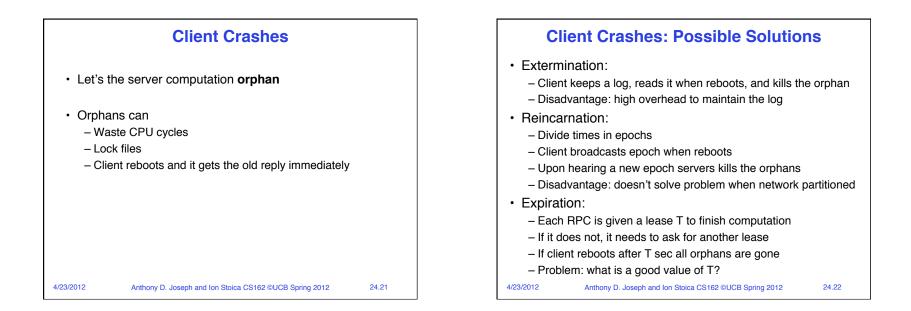
RPC Semantics in the Presence of Failures

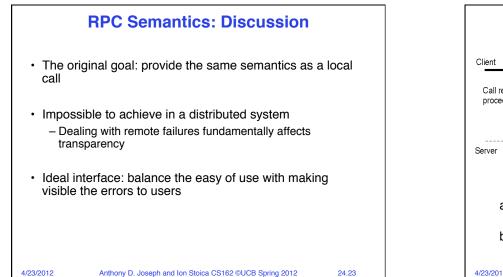
- The client is unable to locate the server
- · The request message from the client to server is lost
- · The reply message from the server is lost
- · The server crashes after receiving a request
- · The client crashes after sending a request
- 4/23/2012 Anthony D. Joseph and Ion Stoica CS162 ©UCB Spring 2012 24.16

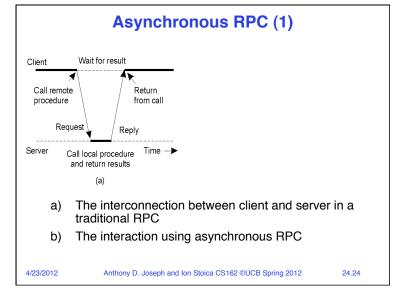


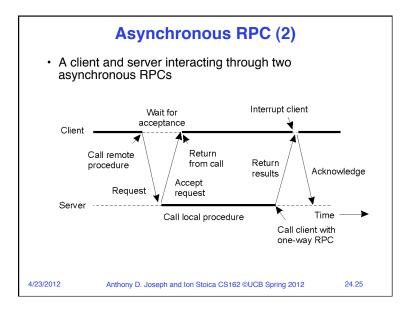


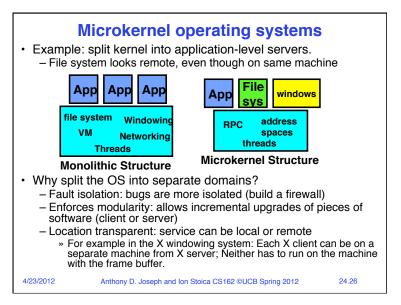
24.18

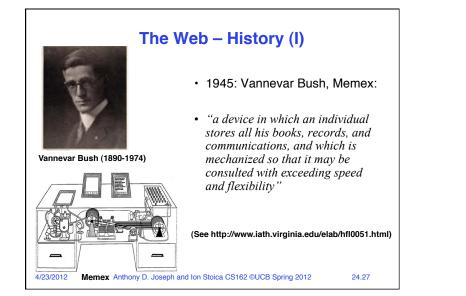


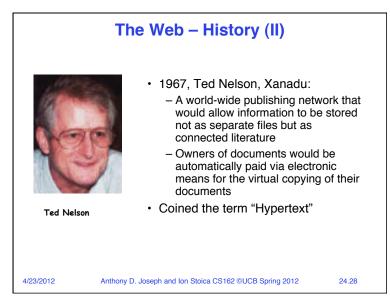


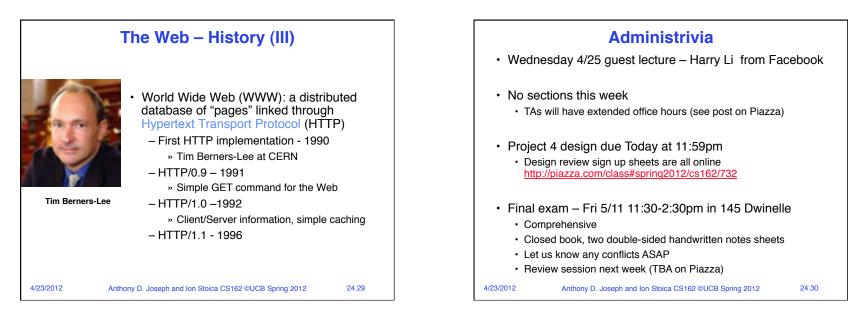


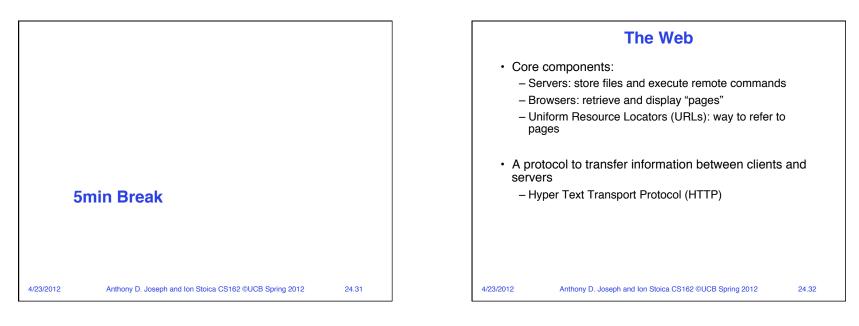


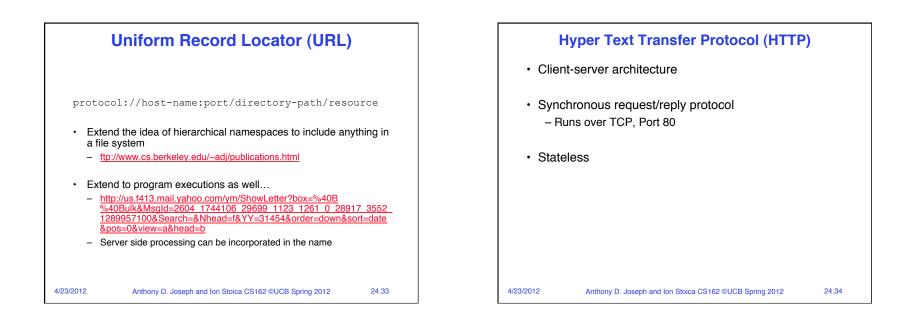


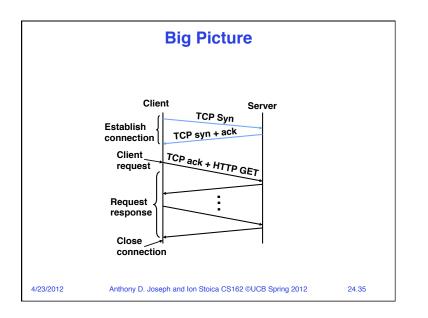


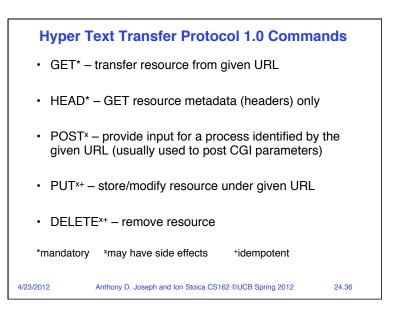














HTTP/1.0 200 OK

Content-Length: 1234

2001 15:31:20 GMT

<html>

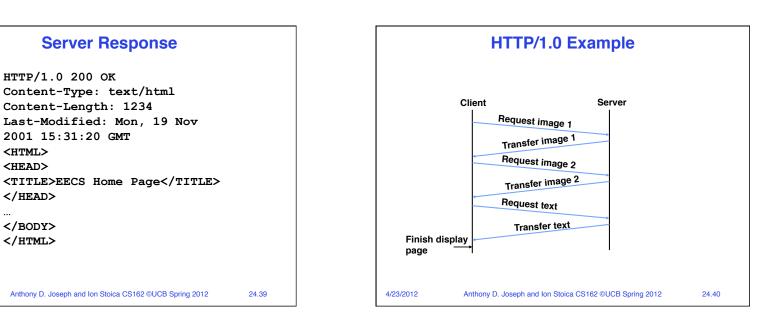
<HEAD>

</HEAD>

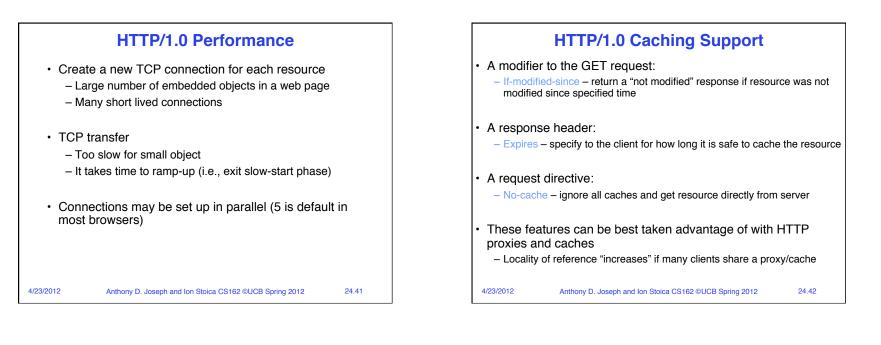
</HTML>

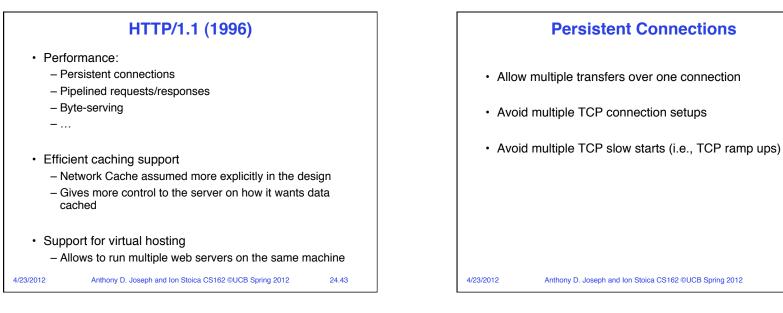
.... </BODY>

4/23/2012

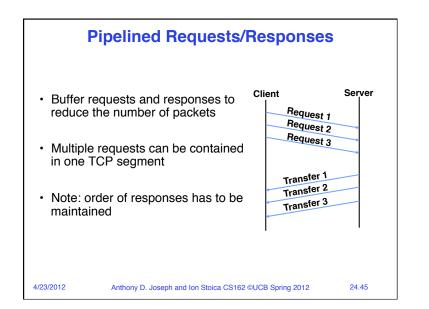


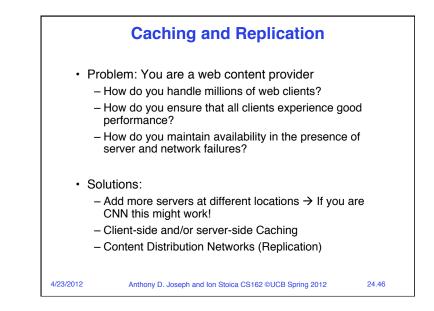
24.38

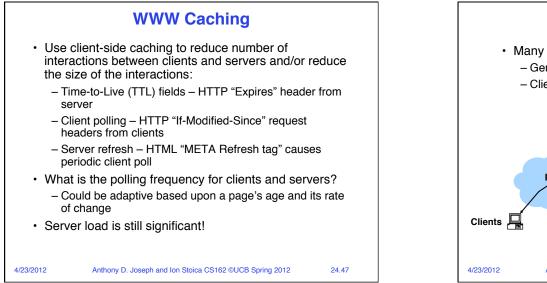


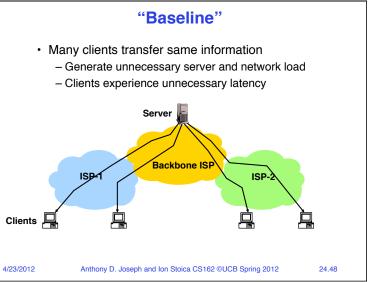


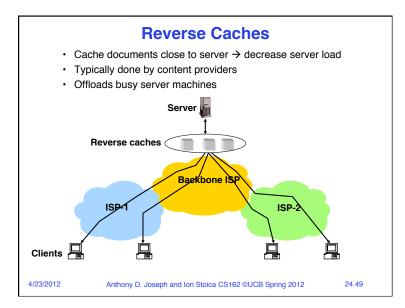
24.44

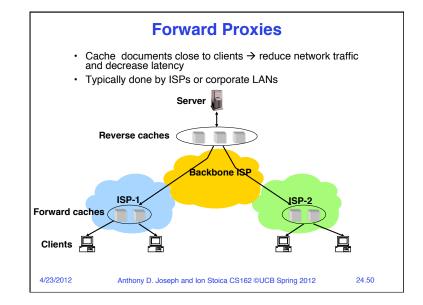


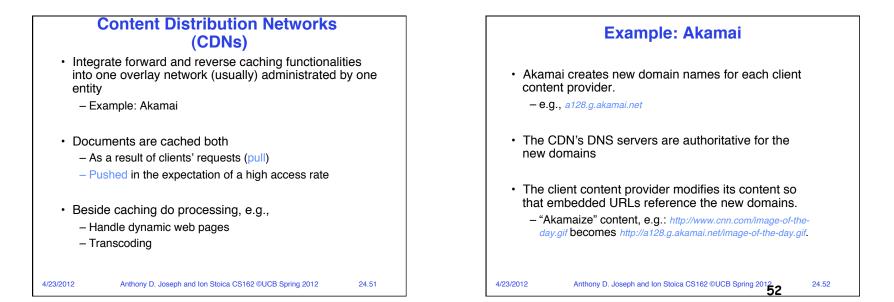


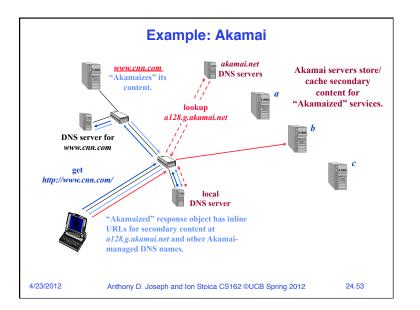


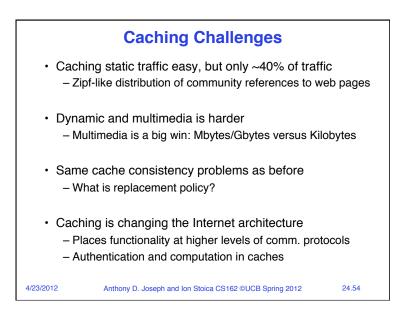












| Summary | | |
|---|--|---------|
| (service) on – Provides s – Automatic | cedure Call (RPC): Call procedure remote machine same interface as local procedure call packing and unpacking of arguments v amming (in stub) | without |
| – Use DNS – HTTP 1.1 connection | ansport Protocol: request-response to locate server vs. 1.0: added support for persistent as and pipeline to improve performance sey to increase scalability | |
| 4/23/2012 Anthor | ny D. Joseph and Ion Stoica CS162 ©UCB Spring 2012 | 24.55 |