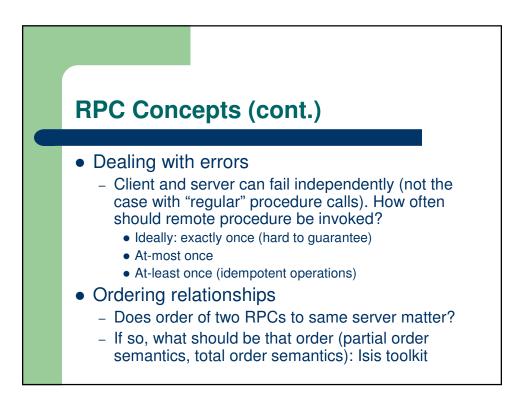
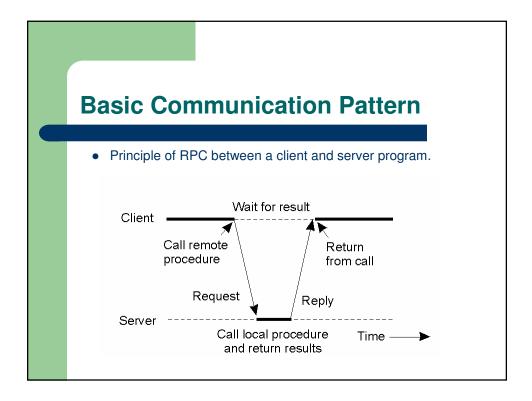
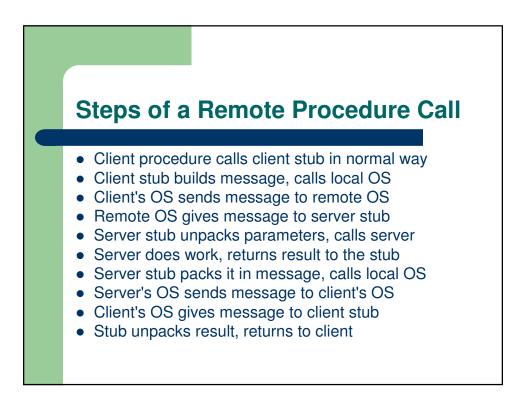


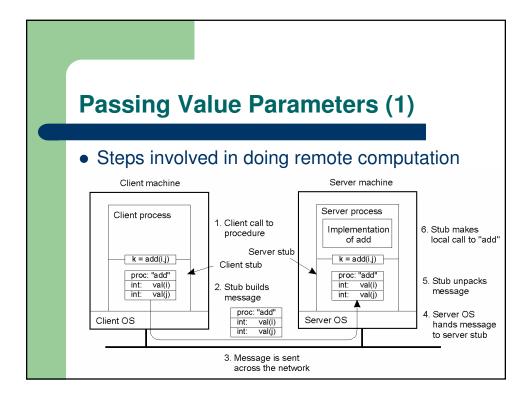


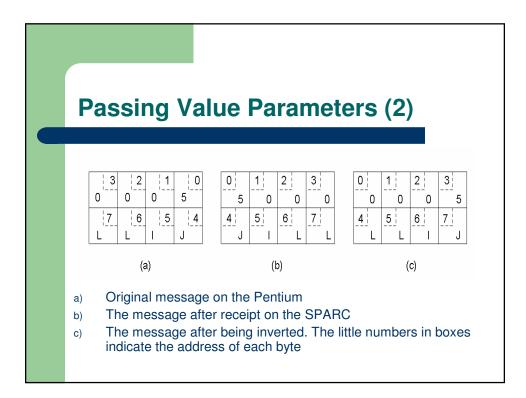
- Registration and identification of a procedure
 - The procedure registers its name to the RPC server
 - The client invokes the procedure by specifying the machine name, the procedure name, and by passing the parameters
- Encoding and decoding of procedure parameters
 - Given the difference in address space, and possibly in internal type encoding schemes and programming language, there is a need to use an external data representation
 - The client (and the server) will have to translate procedure parameters (encoding) and the return value (decoding) to and from that representation
 - Alternatively: have one side translate into the other side's representation, no common external representation (bad idea, why?)

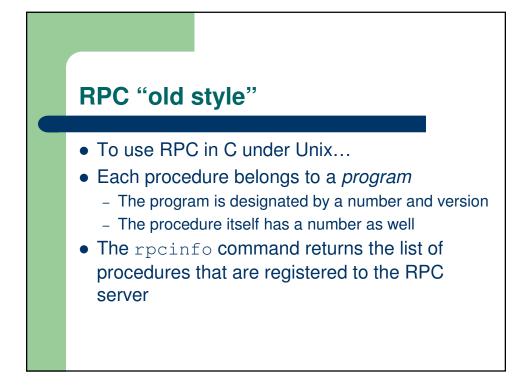


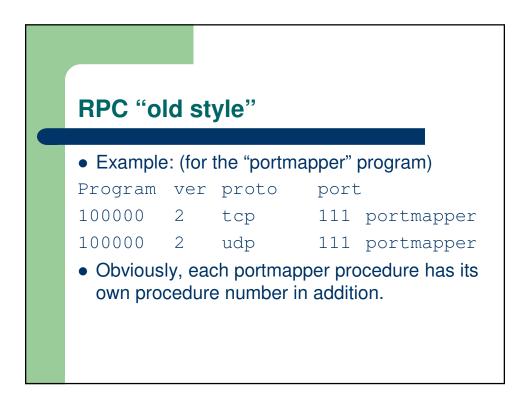


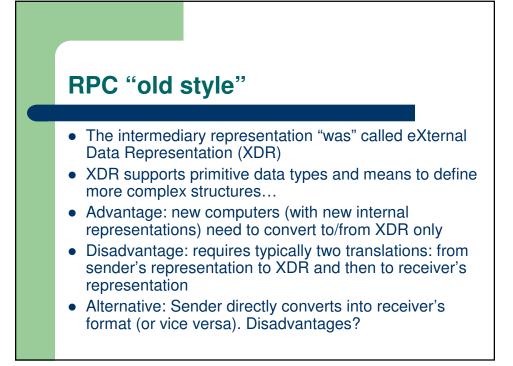


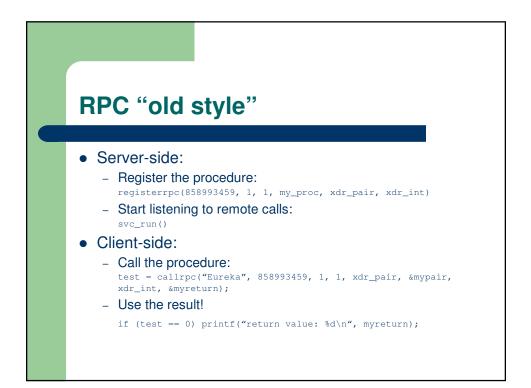


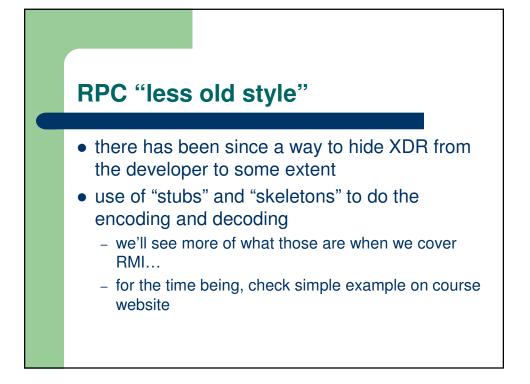


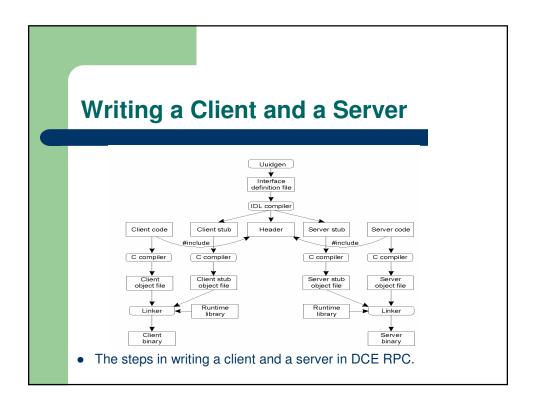


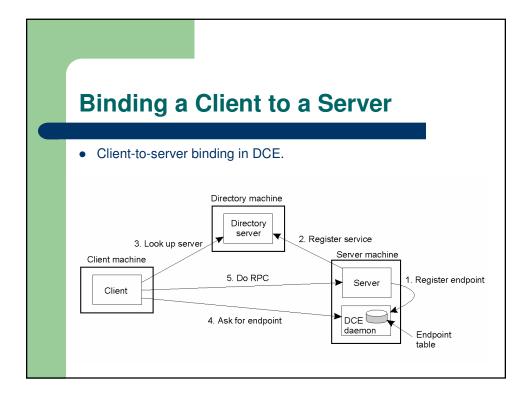


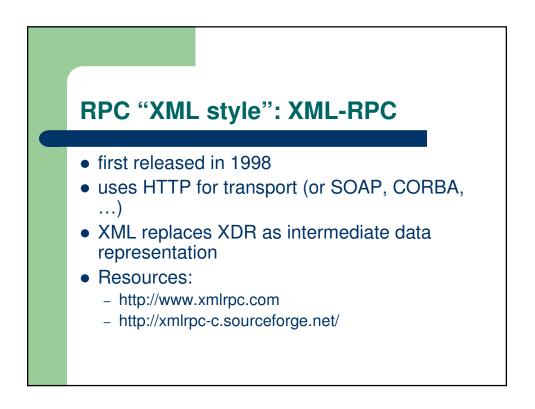


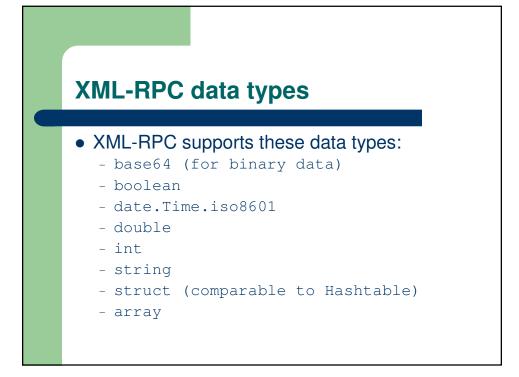


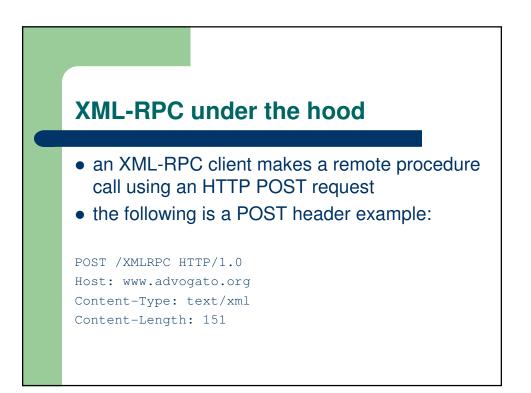


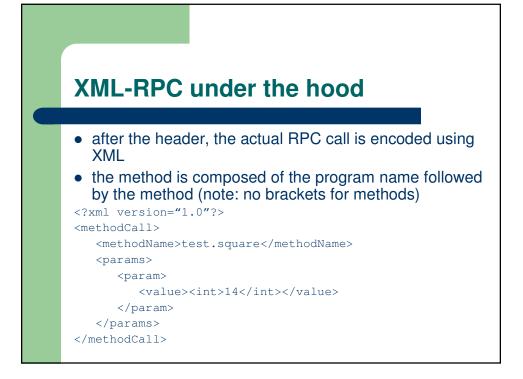


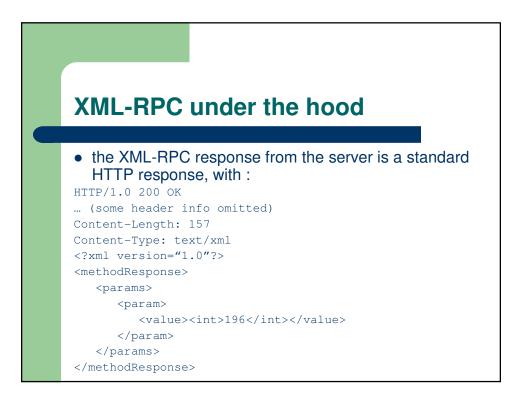


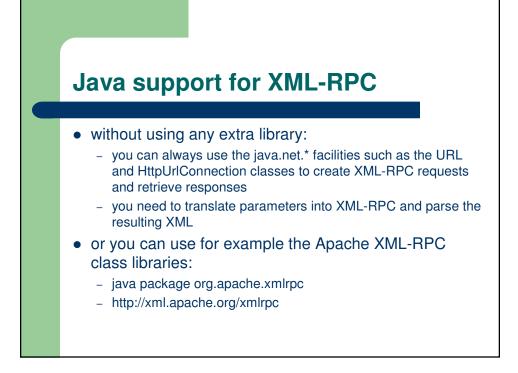


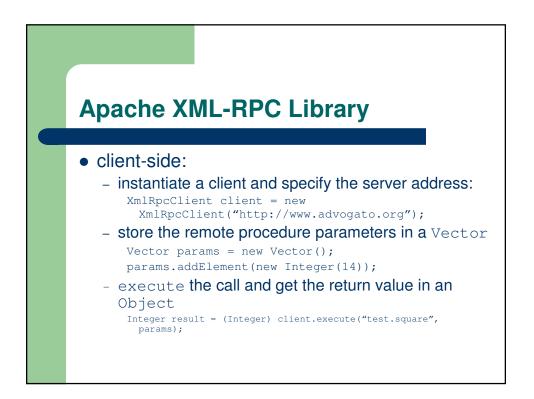


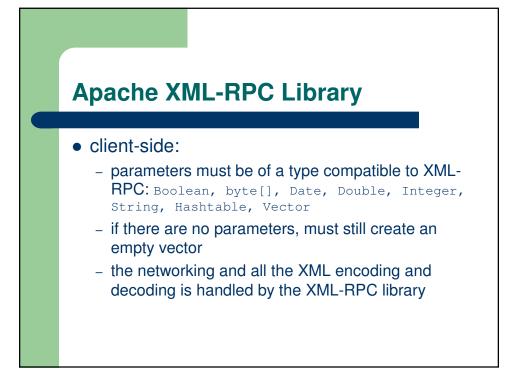


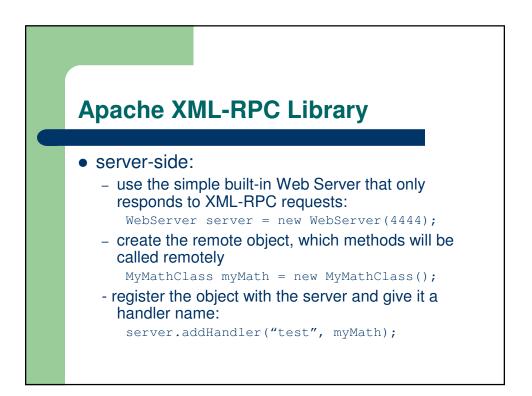


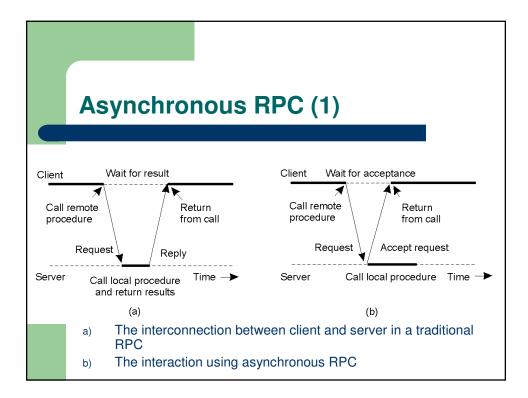


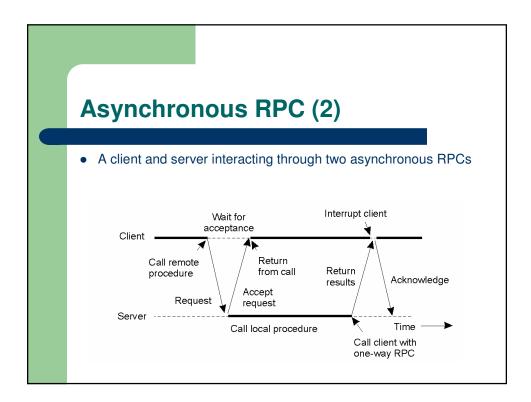












Sun-RPC vs. XML-RPC

• Sun-RPC

- Additional code gets generated (rpcgen)
- More efficient
 - Binary messages: more compact, easier to generate
 - Uses sockets directly
- Invocation of remote procedures using their names and parameters
- XML-RPC
 - No code generators
 - Message in human-readable form
 - More complex protocol stack: XML over HTTP/SOAP over TCP
 - Remote invocation somewhat generic

