











What's Wrong with Socket API?

- · Low-level read/write
- · Communication oriented
- · Same sequence of calls, repeated many times

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- Etc, etc...
- Not programmer friendly

Another Abstraction • RPC (Remote Procedure Call) - Goal: it should appear that the programmer is calling a local function - Mechanism to enable function calls between different processes - First proposed in the 80's · Examples - Sun RPC – Java RMI – CORBA · Other examples that borrow the idea – XML-RPC - Android Bound Services with AIDL - Google Protocol Buffers CSE 486/586, Spring 2014































Fault tolerance measures			Invocation semantics
Retransmit request message	Duplicate filtering	Re-execute procedure or retransmit reply	
No	Not applicable	Not applicable	Maybe
Yes	No	Re-execute procedure	At-least-onc
Yes	Yes	Retransmit old reply	At-most-onc





