

# RPC Call Semantics

- Under failures, hard to guarantee exactly-once semantics
- Function may not be executed if
  - Request (call) message is dropped
  - Reply (return) message is dropped
  - Called process fails before executing called function
  - Called process fails after executing called function
  - Hard for caller to distinguish these cases
- Function may be executed multiple times if
  - Request (call) message is duplicated