

LECTURE

Dist Sys.

Intro

Stub compiler: harder case

```
int func2 (char *buffer, int size) {  
    // e.g. like write(fd, buffer, size)  
}
```

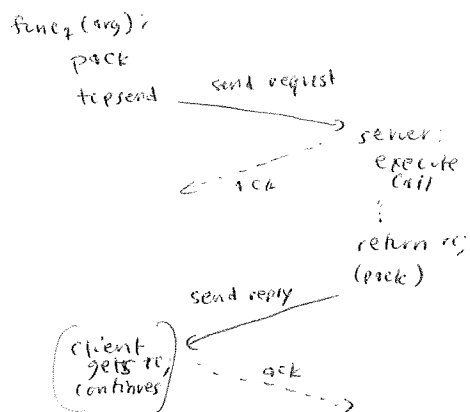
why hard?

Runtime Library

→ naming / binding
(connecting client w/ right server)

→ managing communication

option 1: use TCP (or similar)



⇒ (seems wasteful:
why?)

problem?

option 2: use UDP (or similar)

now, must guarantee semantics

[if no crash ⇒ exactly once
if server crashes ⇒ @ most once]

⇒ use timeout/retry + sequence #

problem: what if remote PC just
takes a long time?

problem: what if args don't fit
into single packet?

(fragment / reassemble)

technique:
(piggybacking)
① use reply as ack of
request

3 cases:
⇒ request lost
→ reply lost
→ server crash