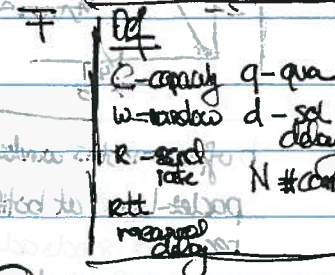
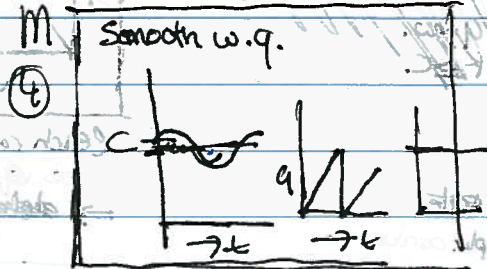
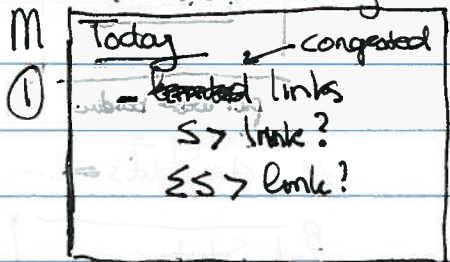


Lecture Notes (3/17/03)

Last Lecture:

- ① ease protocol for single conn. w/ flow control (window).
- send at both of link



(harder than prev. resource mgmt, because no perfect info).
flow control good but get congestion control

(every user gets intended load but a bit later)
(statistical averaging).

But: ① how to measure intended load?

② what next year; Napster?

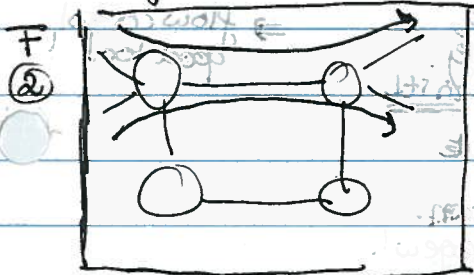
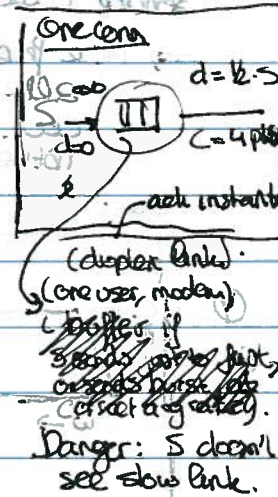
③ cannot defer load long

→ operators do strictly reasonable, but ~~cannot~~ ignore intended load

→ limited by money, router, links, unlinked to intended load

→ some links will be persistently congested (customer, peering)

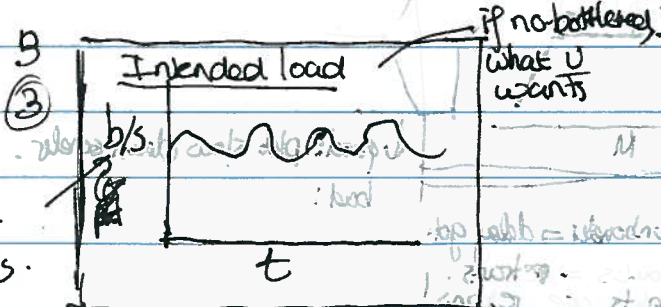
↳ who pays?



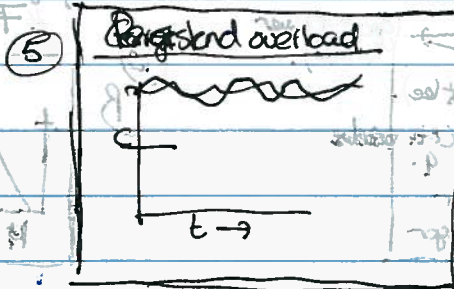
multiple conn share link

conn varies

⇒ (Capacity) < (Load).
what do these mean?



varies over days, hour, rts



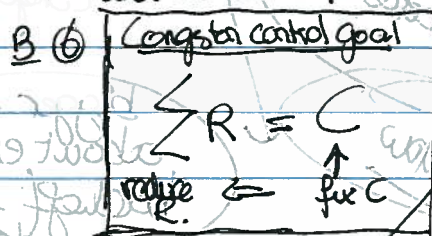
- Cannot move peaks?
- What about intended load?
- Ignore what user wants, give him the best you can and let user drop load.

what are the things you can observe

why does it follow that control is the right tool?

One approach: $\sum L_u < C$.

(build fast, economically infeasible, ...)



- ① Net decides about rate connections
- ② ease approach? (Internet)