

2-2No. of Process \rightarrow 1 B

1 D

multiple W
multiple CProcess \rightarrow ./B, ./D, ./W1, ./W2, ./C1, ./C2 (other pc)LIC \rightarrow BSD, UDS,Special BSD calls \rightarrow sendmsg, recvmsg, read,
write, send, socket, bind, listen,
connect, accept,P/O Mux \rightarrow POLL (D polls on different
infs)Signal \rightarrow yes.SIGUSR1 by W to B. for informing
items are confirmed.FD passing \rightarrow Fd name \rightarrow mfd[2], from B to Wfdname \rightarrow mfd[1], from B to D,

3-2Steps

1. Customer connects to Billing Person B using sfd
2. After informing choice and payment through sfd, B using VDS sends the info to Waiter W. B may also give C a number token.
3. Waiter takes menu items from info of customer and signals (SIGUSR1) to B.
4. On being signalled by W, B sends the info to Delivery by D.
5. W and D is also connected through socket, through which W sends parcel with the name of customer (info) _{number}
6. Customer can send its number ~~info~~ in the sfd which it has been given by B.
7. D matches customer's ~~own~~ number with num provided by W and delivers parcel through info.

Billing PervPseudo-code

- Creates sfd using `socket()`, `bind()`, `listen()`.
- accepts customer `accept()` in mfd.
- takes order and payment (`recv(sfd, buf, 1024, 0);`)
- given a unique token to customer
(`send(sfd, buf, 1024, 0);`)
- sends mfd to waiter via UDS
(mfd) \rightarrow `send-fd()`
- when signalled by UDS (`SIGUSR1`)
 \hookrightarrow sends mfd to D

W

- Creates ^(UDS) mfd and connect to .B,
- receives the customer mfd by `recv-fd()`
- once read the item `SIGUSR1` to B.
- Then prepares parcel
- and send to D by another BSD with unique token of customer.

D

- receives mfd through UDP, mfd from B.
- Polls over mfd.
- receives parcels with token from W,
through normal BSD.
- if token matches customer, gives parcel
to mfd, and closes.

200 in mfd of bfr above.

(1 bfr. 6 sec ← (bfr))

(200/100) 200 pps (bfr) mfd.

of bfr above

W

(200)
B. of time and mfd.

(1 bfr. 6 sec) receives the customer mfd (bfr)

• once time is over (200/100) to B.

then bfr mfd

and send to B (bfr) mfd

customer mfd