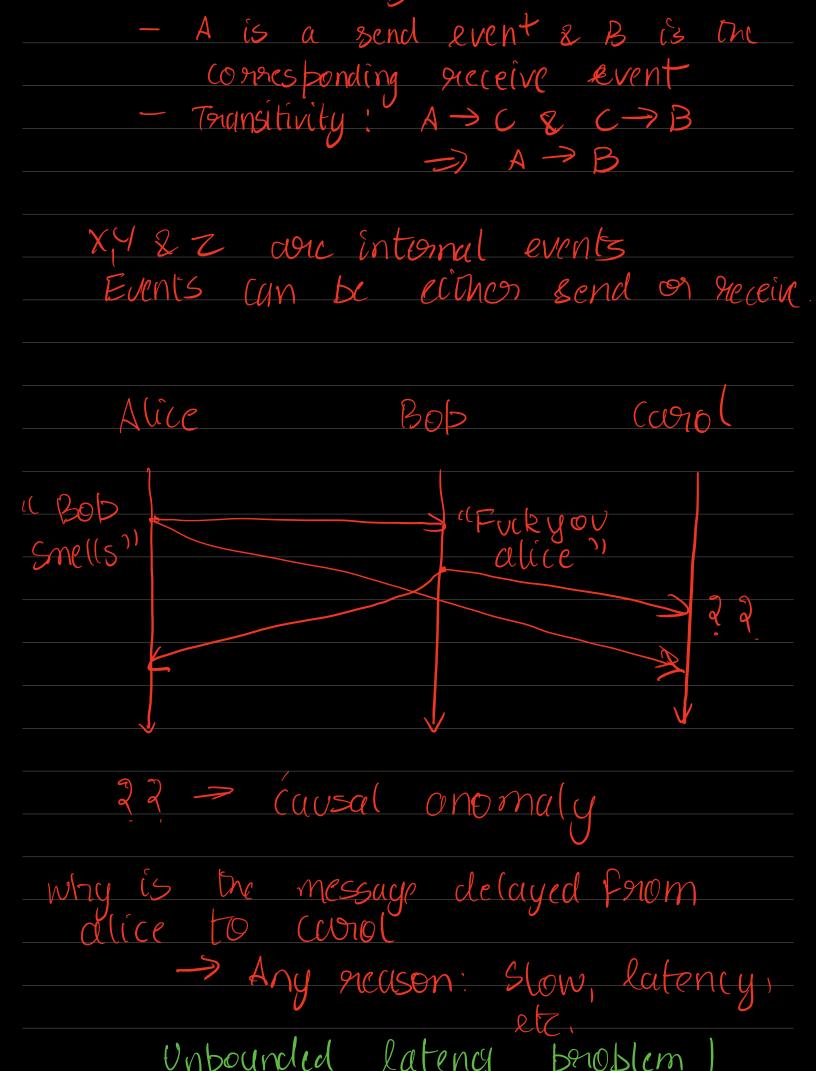
LISE CLUCES FOR Y
-> scheduling -> marking points in time
-> scheduling -> marking points in time -> durations lintervals of time
Clocks in computer
Time of duy clock
-> tells you what time of day
-> can be synced by machines using NTT
ent per agricultura de grande de la grande d
- can jump horward / backward
-> Leap second everor Cloudfure Blog
Monotonic clock
> only goes Forward > good for duration
-> bud for munking time
> NOT comparable between machines
ruc (Cerripcolubil DC/10(er) mics
Physical clocies: Points in intervals!
Time of day clocks MAYBE ND Monotic clocks NO YES

Logicul Clocks Only measure the order of events A -> B RA huppened before B what does above tell about causality? -> A could have coursed B -> B count not bave caused A. Lamport diagram space-time diagram [M2] X>Z Y-72 X>Y P->S Given events A&B, wc say A>B iF: - A 2 B occur on same proces with A before B



Network models Synchronous Metwork

There exists an n such that no message takes longer man deliverel. Asynchmonous Metwork: Mon mailistic -> There exists MO (n) such that no Message takes longer than Partially Synchronous network. > There is an in, but we don't know what it is)

Happens before (->) relation
aiven events 18 B:
given events A&B: -> if A&B occiver on earne process
with a before B, then A > B
-> if A is a send event & B is the
Corresponding receive event
→ Transitivity: A → C and C→B
then A 7 B
space-time diagram
Proces Mi
-
R
$X\rightarrow Z$ $Z \rightarrow R$
Y-72 R +> 7
$\chi \rightarrow \gamma$
7->5
Z & R WIE CONCUMENT
X & P are also concurrent
/\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \

