casual order:

* casual order in distributed systems ensures that events that are causally related (see one event depends on another) are executed in same order across all processes.

* Multiple senders send messages to multiple receivers.

* The ordered message delivery ensures ithat all mag are delivered to call receivers in an accordance acceptable worder.

* It describes the rawal relationship between a message send revent and a message send revent.

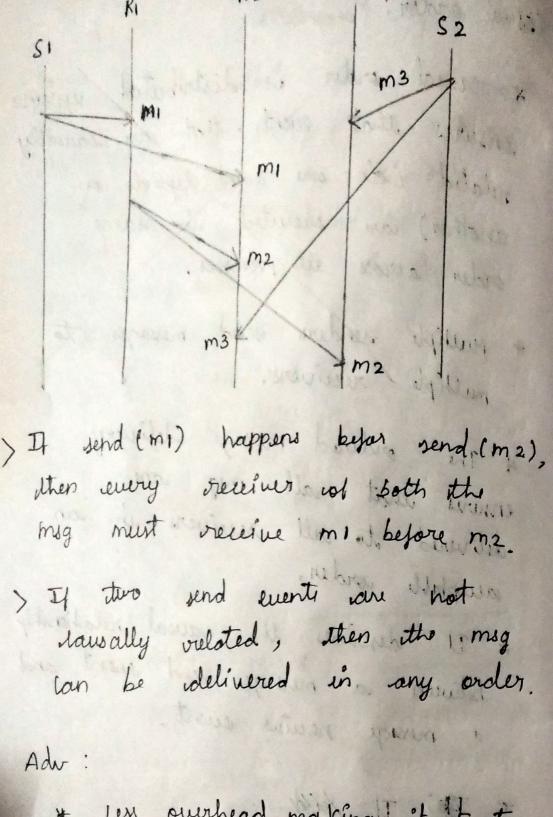
* This I work to be well a

Fg/1; Rules:...

i) If ei = Mend (m) & ej =

rueive (m), then ei -> ej.

ii) Thei -> ej -> ek, then ei -> ek



Less overhead, making it Fastis * Easis to scale with more nodes * Simples et implement and manage.

* can had to inconststenció airos Du-Adv: * Not suitable for applications reeding * Hardis to deling unus orelated to order. Total orden: hosping yours * Total order in distributed systems ensures that, all executs, process in the system agree on the exact same order of events.

* It is also known as consistent

* It unsures that all mesages are delivered in the same order the all the received in

the same order, regardlers of their timestamps. . frontes.

Algorithm: in a transfer of the contract

gender: sends

- 1. process multilast the mag M with an unique tag and a dime shamp to the group members.
 - 2. The group members respond with a temporary proposal; yos a revised timestamp for that msg M.
 - 3. The process multicasts the final Himestamp to the group.

Remitted to award order in the

- 1. Revelver revelves the mig with
- a tintative timestamp.
- 2. Receives sends the revised

 Homestamp to the servier.

 3. Receives receives the final
- timestamp. squadounit issi.

RICORD R2 1 11152 Strange m) k wowners by great to might they be with and from the world of any 30 rose the from 30 former near state tratification Asymptonian declepatiting: Low process Adv: Ensures all nodes have same order of events. * suitable for application needing intrict teams to trace & resolve invest. Du-Advissand with at news pribites to slower performance * Hardes to scale with many * Hore difficult to set up is it maintaine du join