NOM POUPA Prénom Adrien Promo 11 2018 Date 12/01/17 MATIÈRE Programmation Sistème rdt\_ receive(pkt) -517 udt - send (pKH) timer = timer\_stort() is \_corret(Apkt)/ is - correct (boly) is-NAK (ApK+)|| Wait witige Wait for 13-NAK (BPK) Band C From appre ACK udt send (pKt) timer= timer\_start() udt receive (pkt) extract\_data(pkt) rdt- send ( pkt) FSO 130 Similar - receive (plut) udt Wait message is\_corrupt(pkt) 2 From Selow udt-send (NAKOKI) ndt - receive (pkt) udt - send (ACKPKF)
extract - data (AKF)
rdk - Send (AKF)

We can use a TCP packet containing a sequence number ( from which memory stream byte we stort to seed) and an Ack ( from which memory stream byte we expect the next packet). Exercise 2 It is not possible since sendBase - Aek + seque ce Number. Both will only grow with hire so the receiver cannot receive a packet that has a smaller leque ce number than the first sent. Exercise 3 After all the layers, the headers represent the bytes
The botal message is Thessage theaders

(=) 177 the So the fraction of the network bandwidth that is filled with headers is

It make sense to limit the number of threads in a server process because sometimes each thread will consume a lot of memory so to keep the process
and system it was on stable we can limit it.

It prevents from using the whole CPV and RAD memory, prevents swapping and rakes save the system is always responsive for other processes That is, of cause if the bandware is limited and/or each threads consume a lot of resource.

If it is not then there is no reason to limit it. Exercise 5 Connectionless commontation such as the DP protocol is not reliable unlike TCP, a connection protocol which is reliable. When we need reliability, we use TCP for when we need speed over reliability for games or video chat we use ODP which is faster and best - effort: some packers can be lost on the way, but we can toler ste it. TCP works like a telephone commiation, UP like mail UDP can be made reliable but that is by using the application layer-

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