# Robanniniph time
· Used to retramment lost segments
$a \wedge b = b \wedge b$
- Calculations measured RTT (RTTM) -> Round THAT
· Fir TCP, then can be only one RTT measurement in proper
ar any time-
- Meanued PTT is likely to trange for each sound trip, - Sombothed PTT ( PTTs), a weighted average of PTTy and the
-Smoothed Par [ RATS), a weighted average of RATH and the
pleinelle Rivs is used
- Most implementations use RTT deviation, called RTD, boxes
on the RMs and RMM.
· Value of RTO is based on the smoothed lound-trip time
and its deviation-
LANGE SE LOUIS DE LA LOUIS DE
Juit'ally - no volu semosmo out
Juitally -1 no valle
Afre first meanmanen > RTT = RTTM
Afre out masument -> RTG = (1-0) RTG + XX RTTM
Initially -> No value soliviar on
6.61.50
RTTD = (1-B) RTTD + BX RTTS-RTTM
Puétalle : 1010 miles
Pritally -> Me value  After any man: 1890 = RTTs + 4 RTT
The any man of the state of the
· value of or is set to 1/8
· New RTTs to calculated as 7/8 of the old RTTs and of of
the ament RTT
# Persistence times
when Leceiving TCP announces a window size Zero, sending TCP
stops transmitting segments until receiving TCP sends an
Ack regments aumouncing a non-zono window wife.
This ACK can be lost: Weadlock.

	ACK segments are not acknowledged att now retransmitted in TCP.
	no regarding times down a slament contained and in
, and a second	car acknow reagement.
	· Solution: Persistence times at sending TCP side:
3.5 M	· If persistence times poes off send hube agment.
	· Kesponse: reserve addrowledgement.
1.401.4	· No sestional confiner sending probe segments.
1 1 1	
#	Keefalive timet
	· Keep-alive times much to prevent a long all connection
1	lefo two TCPs.
	· Cach time sever hears from a client, it resets the time.
	Time-out is usually 2 hours.
_	ONE WALL L'ORGA
	The HAT TIME WATT (2MSL) times is used during connecion
	fermination.
	· Purpose of time-water is to allow the retworking to
	distinguish packets that arive as belong to the old episting
	connection from a new one.
	The seconsulendation is to set the Time want fines to
	twice the Maximum regner Lifetime LMSL).
and the second s	Jane -: The state of the state
	TCP options End of option list
-	Single byte No operation
	Options - Maximum signed die
	- window scale factor
	Thursty Jime Stanes
	- Multiple-byte SACK-permitted
	SACK SACK
	Scanned by CamScanner

