

----- Network Simulator Version 2.3 -----

Enter the number of messages to simulate: Packet loss probability [enter number between 0.0 and 1.0]: Packet corruption probability [0.0 for no corruption]: Packet out-of-order probability [0.0 for no out-of-order]: Average time between messages from sender's layer5 [> 0.0]: Enter Level of tracing desired: Do you want actions randomized: (1 = yes, 0 = no)? Do you want Bidirectional: (1 = yes, 0 = no)? Input parameters:
Number of Messages = 100 Lost Packet Prob. = 0.000
Corrupt Packet Prob. = 0.000 Out Of Order Prob. = 0.000
Ave. time between messages = 1000.00 Trace level = 1
Randomize = 1 Bi-directional = 0

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A: 1037.9039, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU
B: 1046.1557, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU
A: 1088.7950, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,
B: 1095.5471, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,
A: 2714.2083, Layer 5 to 4 Message = $X$d:oFzQ()3h>sJ~U,a
B: 2742.1366, Layer 4 to 5 Message = $X$d:oFzQ()3h>sJ~U,a
A: 4071.9274, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
B: 4102.5333, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
A: 4958.2382, Layer 5 to 4 Message = &}wq&e_XRLF?93-'~xrl
B: 4961.3149, Layer 4 to 5 Message = &}wq&e_XRLF?93-'~xrl
A: 5066.1727, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
B: 5080.2899, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
A: 6365.9723, Layer 5 to 4 Message = (Eb~=Z(6SpXLi(Eb~=Zw
B: 6371.2786, Layer 4 to 5 Message = (Eb~=Z(6SpXLi(Eb~=Zw
A: 7103.4586, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O)N
B: 7112.3563, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O)N
A: 7957.5364, Layer 5 to 4 Message = *jL.nP2r*6vX:z]>~aC%
B: 7964.0606, Layer 4 to 5 Message = *jL.nP2r*6vX:z]>~aC%
A: 8385.2865, Layer 5 to 4 Message = +fpdWK>2&+k_RF3~rfY
B: 8395.0070, Layer 4 to 5 Message = +fpdWK>2&+k_RF3~rfY
A: 8607.3560, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0
B: 8615.2727, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0
A: 9887.2261, Layer 5 to 4 Message = -DZq*AWn'=T-$:Qh~7Ne
B: 9899.8395, Layer 4 to 5 Message = -DZq*AWn'=T-$:Qh~7Ne
A: 11375.1724, Layer 5 to 4 Message = .V~Iq;d.V~Iq.d.V~Iq;
B: 11382.6226, Layer 4 to 5 Message = .V~Iq;d.V~Iq.d.V~Iq;
A: 11423.6173, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p
B: 11430.9754, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p
A: 12569.0813, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~LYG
B: 12580.4071, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~LYG
A: 14261.4908, Layer 5 to 4 Message = 10x.-,+)('&%$#1~}|{
B: 14265.6715, Layer 4 to 5 Message = 10x.-,+)('&%$#1~}|{
A: 14517.6376, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR
B: 14519.0116, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR
A: 15626.4509, Layer 5 to 4 Message = 3Uw;^!Df*Ln2Tv:]~3e)
B: 15637.9458, Layer 4 to 5 Message = 3Uw;^!Df*Ln2Tv:]~3e)
A: 17337.4324, Layer 5 to 4 Message = 4f=qGzP&Yxc8lB3K~T4^
B: 17359.2623, Layer 4 to 5 Message = 4f=qGzP&Yxc8lB3K~T4^
A: 17406.0336, Layer 5 to 4 Message = 5zbI0u]D+pW>&kR9~fM5
B: 17419.8678, Layer 4 to 5 Message = 5zbI0u]D+pW>&kR9~fM5
A: 19261.6380, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi
B: 19263.9141, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi
A: 20437.6452, Layer 5 to 4 Message = d7LVaku!,6AK2`jt~+5?
B: 20455.4985, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?
A: 20831.4217, Layer 5 to 4 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
B: 20855.2071, Layer 4 to 5 Message = 8T8.Jf$?[w5Qm+Gc~<Xt
A: 22095.7144, Layer 5 to 4 Message = 9g693a0^-Z*W'T$Q~N{K
B: 22102.6129, Layer 4 to 5 Message = 9g693a0^-Z*W'T$Q~N{K
A: 23709.5070, Layer 5 to 4 Message = :yZ;:[<{]=|>}~`A!
B: 23720.9577, Layer 4 to 5 Message = :yZ;:[<{]=|>}~`A!
A: 25692.5680, Layer 5 to 4 Message = ;.~qd;I;.~qdVI;.~qdV
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B: 25716.0166, Layer 4 to 5 Message = ;.~qd;I;.~qdVI;.~qdV
A: 27355.0833, Layer 5 to 4 Message = <AEIMQ<Y^bfjnr vz~%) -
B: 27367.9653, Layer 4 to 5 Message = <AEIMQ<Y^bfjnr vz~%) -
A: 27931.7854, Layer 5 to 4 Message = =fi~6Lb=xEZp(=3i~6Lb
B: 27938.7250, Layer 4 to 5 Message = =fi~6Lb=xEZp(=3i~6Lb
A: 28763.6296, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8
B: 28774.0364, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8
A: 30678.9340, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m
B: 30686.9045, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m
A: 32669.3864, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD
B: 32678.3600, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD
A: 32823.1534, Layer 5 to 4 Message = B?=>;97531x-B)'%#~|zx
B: 32836.5994, Layer 4 to 5 Message = B?=>;97531x-B)'%#~|zx
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Printing the contents of the Simulation Event Q

Event Time = 34694.189 A: LAYER 5

Event Time = 37823.153 A: Timer

Printing the contents of the Simulation Event Q

Event Time = 37823.153 A: Timer

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A: 34694.1886, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?O
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Printing the contents of the Simulation Event Q

Event Time = 36053.098 A: LAYER 5

Event Time = 39694.189 A: Timer

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B: 34714.6768, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?O
A: 36053.0979, Layer 5 to 4 Message = De(Ij-No2St7XD<^~Bc&
B: 36070.0823, Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
A: 37183.2962, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z
B: 37198.5036, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z
A: 38207.7746, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1
B: 38238.4610, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1
A: 40087.8639, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf
B: 40115.3015, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf
A: 41265.2141, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<
B: 41275.5116, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<
A: 42171.3871, Layer 5 to 4 Message = Id~;Vq.Id~;Vq.Id~;Iq
B: 42182.6551, Layer 4 to 5 Message = Id~;Vq.Id~;Vq.Id~;Iq
A: 43652.8888, Layer 5 to 4 Message = JvEq?l:g5b0]+W&R~MyJ
B: 43673.0464, Layer 4 to 5 Message = JvEq?l:g5b0]+W&R~MyJ
A: 45647.5486, Layer 5 to 4 Message = K+iI)gG'eE%cC#aA~_|
B: 45670.0504, Layer 4 to 5 Message = K+iI)gG'eE%cC#aA~_|
A: 46051.3424, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS
B: 46070.2620, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS
A: 47405.8367, Layer 5 to 4 Message = dPMVY]`cfilo2ux{~$'*
B: 47411.1375, Layer 4 to 5 Message = dPMVY]`cfilo2ux{~$'*
A: 47877.9268, Layer 5 to 4 Message = NcwNCWl#7Lau,AUj~5J_
B: 47895.1785, Layer 4 to 5 Message = NcwNCWl#7Lau,AUj~5J_
A: 48337.3519, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5
B: 48343.5065, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5
A: 48352.4496, Layer 5 to 4 Message = Pfb;sP'_8pJ$[53G~X2j
B: 48376.3393, Layer 4 to 5 Message = Pfb;sP'_8pJ$[53G~X2j
A: 50205.9870, Layer 5 to 4 Message = Q<(q)HQ|hS>*s_J5~jUA
B: 50225.8292, Layer 4 to 5 Message = Q<(q)HQ|hS>*s_J5~jUA
A: 50292.7729, Layer 5 to 4 Message = ROLIFC?R9630-*'$~{xu
B: 50316.0338, Layer 4 to 5 Message = ROLIFC?R9630-*'$~{xu
A: 51822.1033, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L
B: 51828.7289, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L
A: 53579.1319, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|>_~Aa#
B: 53582.4698, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|>_~Aa#
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A: 55204.3951, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W
B: 55220.0410, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W
A: 56112.6391, Layer 5 to 4 Message = V;~dI.qV;~dV.qV;~dI.
B: 56142.3190, Layer 4 to 5 Message = V;~dI.qV;~dV.qV;~dI.
A: 56318.5004, Layer 5 to 4 Message = WNE;2) }tkbXOW<3*~ulc
B: 56331.0408, Layer 4 to 5 Message = WNE;2) }tkbXOW<3*~ulc
A: 57565.2358, Layer 5 to 4 Message = Xaiqy$,4<EMU^Xnv~)19
B: 57586.2694, Layer 4 to 5 Message = Xaiqy$,4<EMU^Xnv~)19
A: 58670.6400, Layer 5 to 4 Message = YfxIc|8Rl(B[u1Ye~:Tn
B: 58678.6706, Layer 4 to 5 Message = YfxIc|8Rl(B[u1Ye~:Tn
A: 59364.7311, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE
B: 59391.1930, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE
A: 60212.9975, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y
B: 60242.4887, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y
A: 61449.8888, Layer 5 to 4 Message = ]M=.|m^N>x}n_O?0~]`P
B: 61480.6999, Layer 4 to 5 Message = ]M=.|m^N>x}n_O?0~]`P
A: 63060.9371, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'
B: 63065.6806, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'
A: 63605.8406, Layer 5 to 4 Message = _r(;Ocv,?Sgz0DWk~4H_
B: 63631.6611, Layer 4 to 5 Message = _r(;Ocv,?Sgz0DWk~4H_
A: 64777.7391, Layer 5 to 4 Message = ``Lq8^%Jo6[#Hm4Y~Fk2
B: 64780.8816, Layer 4 to 5 Message = ``Lq8^%Jo6[#Hm4Y~Fk2
A: 65467.2505, Layer 5 to 4 Message = aapI!X1hAwP)`8oH~W0g
B: 65478.2715, Layer 4 to 5 Message = aapI!X1hAwP)`8oH~W0g
A: 66710.8199, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=
B: 66736.3536, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=
A: 67057.6717, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr
B: 67072.4665, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr
A: 67075.4800, Layer 5 to 4 Message = dq~.dIVdq~.;IVdq~.;I
B: 67081.7690, Layer 4 to 5 Message = dq~.dIVdq~.;IVdq~.;I
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Printing the contents of the Simulation Event Q

Event Time = 68170.716 A: LAYER 5

Event Time = 72075.725 A: Timer

Printing the contents of the Simulation Event Q

Event Time = 72075.725 A: Timer

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A: 68170.7158, Layer 5 to 4 Message = e&Ed%ec$Cb#Ba!A`~?_}
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Printing the contents of the Simulation Event Q

Event Time = 68706.600 A: LAYER 5

Event Time = 73170.716 A: Timer

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B: 68194.8117, Layer 4 to 5 Message = e&Ed%ec$Cb#Ba!A`~?_}
A: 68706.6001, Layer 5 to 4 Message = f8i;l>fBrEuHxK{N~Q$T
B: 68720.0076, Layer 4 to 5 Message = f8i;l>fBrEuHxK{N~Q$T
A: 69588.1900, Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+
B: 69616.2330, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+
A: 71234.4414, Layer 5 to 4 Message = h^SI>4*}hi_TJ?5+~tj`
B: 71246.3561, Layer 4 to 5 Message = h^SI>4*}hi_TJ?5+~tj`
A: 71846.6732, Layer 5 to 4 Message = ipw~(x6=EiSZbipw~(x6
B: 71860.8184, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6
A: 72730.7077, Layer 5 to 4 Message = d%=Vo*C[tXja24Mf~9Rk
B: 72757.7683, Layer 4 to 5 Message = d%=Vo*C[tXja24Mf~9Rk
A: 73990.6558, Layer 5 to 4 Message = k7b.X%OyFp<k3^*T~KuB
B: 74001.7177, Layer 4 to 5 Message = k7b.X%OyFp<k3^*T~KuB
A: 74108.2321, Layer 5 to 4 Message = lf(dB)[9uS1ml)3C~]:v
B: 74134.4746, Layer 4 to 5 Message = lf(dB)[9uS1ml)3C~]:v
A: 75214.8601, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M
B: 75225.4022, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M
A: 76793.1304, Layer 5 to 4 Message = nopqrstuvwxyz{n}~!#$
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B: 76802.9344, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#$
A: 77244.5783, Layer 5 to 4 Message = o$6I[n#5HZm!4GYo~3FX
B: 77259.0884, Layer 4 to 5 Message = o$6I[n#5HZm!4GYo~3FX
A: 77410.8696, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix
B: 77431.9745, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix
A: 79391.6102, Layer 5 to 4 Message = dI~V.d;qI~V.2;qI~q.d
B: 79408.4228, Layer 4 to 5 Message = dI~V.d;qI~V.2;qI~q.d
A: 79902.8235, Layer 5 to 4 Message = r[E.u_H1xbK4{eN7~hr:
B: 79933.6585, Layer 4 to 5 Message = r[E.u_H1xbK4{eN7~hr:
A: 81741.7234, Layer 5 to 4 Message = snid_YTOJE?:50+&~yts
B: 81746.7530, Layer 4 to 5 Message = snid_YTOJE?:50+&~yts
A: 83340.8840, Layer 5 to 4 Message = t#x;HTamy(4AMYfr~-9F
B: 83368.7855, Layer 4 to 5 Message = t#x;HTamy(4AMYfr~-9F
A: 84563.6691, Layer 5 to 4 Message = uuSq1Om-Ki)Ge%3a~>]z
B: 84579.8587, Layer 4 to 5 Message = uuSq1Om-Ki)Ge%3a~>]z
A: 85557.3195, Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q
B: 85559.7147, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O~P!Q
A: 86209.8312, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=~bE(
B: 86240.4180, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
A: 88028.2531, Layer 5 to 4 Message = dmbVx?4){peY2C7,~sh]
B: 88046.5478, Layer 4 to 5 Message = dmbVx?4){peY2C7,~sh]
A: 89136.0198, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~-3
B: 89147.7313, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~-3
A: 91043.6261, Layer 5 to 4 Message = z4Ld{5ze|6Nf}7Og~8Ph
B: 91049.7386, Layer 4 to 5 Message = z4Ld{5ze|6Nf}7Og~8Ph
A: 91561.8886, Layer 5 to 4 Message = {Gp;e0Y{NwC17a,U~Js>
B: 91566.0933, Layer 4 to 5 Message = {Gp;e0Y{NwC17a,U~Js>
A: 91796.9537, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD~[8s
B: 91801.4812, Layer 4 to 5 Message = }lZI7&raO},xgUD2~m[J
A: 91819.2189, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD~[8s
B: 91846.4326, Layer 4 to 5 Message = }lZI7&raO},xgUD2~m[J
A: 93199.2895, Layer 5 to 4 Message = ~fDUgx,=Oa~&7I3l}1CT
B: 93222.5642, Layer 4 to 5 Message = ~fDUgx,=Oa~&7I3l}1CT
A: 93738.5097, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU
B: 93764.9701, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
A: 95424.6870, Layer 5 to 4 Message = ##i.Qt9)!Eh-Ps8[~Dg,
B: 95454.2671, Layer 4 to 5 Message = ##i.Qt9)!Eh-Ps8[~Dg,
A: 96076.3436, Layer 5 to 4 Message = $X$d:oFzQ(]3h>sJ~U,a
B: 96095.6800, Layer 4 to 5 Message = $X$d:oFzQ(]3h>sJ~U,a
A: 97601.6140, Layer 5 to 4 Message = %kS%$jR:#iQ9!hP8~gO7
B: 97627.1903, Layer 4 to 5 Message = %kS%$jR:#iQ9!hP8~gO7
A: 98345.2846, Layer 5 to 4 Message = &}wq&e_XRLF?93-'~xrl
B: 98370.2389, Layer 4 to 5 Message = &}wq&e_XRLF?93-'~xrl
A: 98916.8355, Layer 5 to 4 Message = '2=IT'kv$x:FQ]hs~,7C
B: 98926.9087, Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
A: 99048.0339, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw
B: 99068.2411, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw
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Printing the contents of the Simulation Event Q

Event Time = 100087.833 A: LAYER 5

Event Time = 104048.034 A: Timer

Printing the contents of the Simulation Event Q

Event Time = 104048.034 A: Timer

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A: 100087.8333, Layer 5 to 4 Message = dW(V'U&)%S$R2Q!P~O}N
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Printing the contents of the Simulation Event Q

Event Time = 102063.747 A: LAYER 5

Event Time = 105087.833 A: Timer

```
B: 100116.8959, Layer 4 to 5 Message = dW(V'U&)%S$R2Q!P~O}N
```

A: 102063.7475, Layer 5 to 4 Message = *fL.nP2r*6vX:z3>~aC%
B: 102076.2273, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%

Simulator terminated at time 102084.681287
after receiving 100 msgs at layer5

Simulator Analysis:

Number of messages sent from 5 to 4: 100

Number of messages received at Layer 5, side A: 0

Number of messages received at Layer 5, side B: 100

Number of messages incorrectly received at layer 5: 0

Number of packets entering the network: 200

Average number of packets already in network: 0.000

Number of packets that the network lost: 0

Number of packets that the network corrupted: 0

Number of packets that the network put out of order: 0