

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

Input parameters:

Number of Messages = 100 Lost Packet Prob. = 0.100

Corrupt Packet Prob. = 0.100 Out Of Order Prob. = 0.100

Ave. time between messages = 1000.00 Trace level = 1

Randomize = 1 Bi-directional = 0

A: 366.8289, Layer 5 to 4 Message = !fEVhy->Pbs'2J3m~2DU

B: 394.3801, Layer 4 to 5 Message = !fEVhy->Pbs'2J3m~2DU

A: 1659.5564, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,

B: 1660.6893, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,

A: 2943.8121, Layer 5 to 4 Message = \$X\$d:oFzQ([3h>sJ~U,a

B: 2969.5693, Layer 4 to 5 Message = \$X\$d:oFzQ([3h>sJ~U,a

A: 4926.4486, Layer 5 to 4 Message = %kS%\$jR:#iQ9!hP8~gO7

B: 4951.8645, Layer 4 to 5 Message = %kS%\$jR:#iQ9!hP8~gO7

A: 6173.5665, Layer 5 to 4 Message = &}wq&e\_XRLF?93-'~xrl

B: 6183.3890, Layer 4 to 5 Message = &}wq&e\_XRLF?93-'~xrl

A: 7028.8219, Layer 5 to 4 Message = '2=IT'kv\$x:FQ]hs~,7C

B: 7051.0098, Layer 4 to 5 Message = '2=IT'kv\$x:FQ]hs~,7C

A: 7555.4063, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw

B: 7595.2950, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw

A: 9136.8653, Layer 5 to 4 Message = dW(V'U&)%S\$R2Q!P~O}N

B: 9143.6966, Layer 4 to 5 Message = dW(V'U&)%S\$R2Q!P~O}N

A: 11093.2155, Layer 5 to 4 Message = \*jL.nP2r\*6vX:z]>~aC%

B: 11097.9687, Layer 4 to 5 Message = \*jL.nP2r\*6vX:z]>~aC%

A: 11130.6866, Layer 5 to 4 Message = +fpdWK>2&+k\_RF3~rfY

B: 11156.5275, Layer 4 to 5 Message = +fpdWK>2&+k\_RF3~rfY

A: 12155.9056, Layer 5 to 4 Message = ,16;AFKPUZ,ejoty~&+0

B: 12159.4608, Layer 4 to 5 Message = ,16;AFKPUZ,ejoty~&+0

A: 13192.0421, Layer 5 to 4 Message = -DZq\*AWn'=T-\$:Qh~7Ne

B: 13218.0668, Layer 4 to 5 Message = -DZq\*AWn'=T-\$:Qh~7Ne

A: 14811.5235, Layer 5 to 4 Message = .V~lq;d.V~lq.d.V~lq;

B: 14827.2869, Layer 4 to 5 Message = .V~lq;d.V~lq.d.V~lq;

A: 15521.1610, Layer 5 to 4 Message = xiE~Z6pL(b=wSxiE~Z6p

B: 15525.0053, Layer 4 to 5 Message = xiE~Z6pL(b=wSxiE~Z6p

A: 15968.5580, Layer 5 to 4 Message = d{iVD1|jWE2}2X03~IYG

B: 15980.0050, Layer 4 to 5 Message = d{iVD1|jWE2}2X03~IYG

A: 16323.9939, Layer 5 to 4 Message = 10x.-,+\*)('&%\$#1~){

B: 16334.6350, Layer 4 to 5 Message = 10x.-,+\*)('&%\$#1~){

A: 17159.4136, Layer 5 to 4 Message = 2CSdt'7HXiy,<M^n21BR

B: 17167.8847, Layer 4 to 5 Message = 2CSdt'7HXiy,<M^n21BR

A: 18616.7507, Layer 5 to 4 Message = 3Uw;^!Df\*Ln2Tv:]~3e)

B: 18634.5112, Layer 4 to 5 Message = 3Uw;^!Df\*Ln2Tv:]~3e)

A: 20198.2321, Layer 5 to 4 Message = 4f=qGzP&Yxc8IB3K~T4^

B: 20200.9979, Layer 4 to 5 Message = 4f=qGzP&Yxc8IB3K~T4^

A: 21008.5134, Layer 5 to 4 Message = 5zbl0u]D+pW>&kR9~fM5

B: 21032.1153, Layer 4 to 5 Message = 5zbl0u]D+pW>&kR9~fM5

A: 21066.8688, Layer 5 to 4 Message = 6x(~wpibZSLE=6x(~wpi

B: 21099.8048, Layer 4 to 5 Message = 6x(~wpibZSLE=6x(~wpi

A: 22309.2089, Layer 5 to 4 Message = d7LVaku!,6AK2`jt~+5?

B: 22333.6184, Layer 4 to 5 Message = d7LVaku!,6AK2`jt~+5?

A: 24287.2893, Layer 5 to 4 Message = 8T8.Jf\$?[w5Qm+Gc~<Xt

B: 24314.6555, Layer 4 to 5 Message = 8T8.Jf\$?[w5Qm+Gc~<Xt

A: 26262.9279, Layer 5 to 4 Message = 9g693a0^~Z\*W'T\$Q~N{K

B: 26265.1504, Layer 4 to 5 Message = 9g693a0^~Z\*W'T\$Q~N{K

A: 27618.7051, Layer 5 to 4 Message = :yZ;:[<[|=|^>}~?~`A!

B: 27637.2314, Layer 4 to 5 Message = :yZ;:[<[|=|^>}~?~`A!

A: 28860.7313, Layer 5 to 4 Message = ;.~qd;l;.~qdVI;.~qdV

B: 28870.0354, Layer 4 to 5 Message = ;.~qd;l;.~qdVI;.~qdV

A: 29071.6534, Layer 5 to 4 Message = <AEIMQ<Y^bfjnrVz~%)-

B: 29083.7640, Layer 4 to 5 Message = <AEIMQ<Y^bfjnrVz~%)-

A: 29381.9816, Layer 5 to 4 Message = =fi~6Lb=xEZp(=3i~6Lb

B: 29398.3030, Layer 4 to 5 Message = =fi~6Lb=xEZp(=3i~6Lb

A: 29716.9340, Layer 5 to 4 Message = dfxV}Gn7>(Ov2g0W~Ho8

B: 29734.1999, Layer 4 to 5 Message = dfxV}Gn7>(Ov2g0W~Ho8

A: 30578.8939, Layer 5 to 4 Message = ?xS.gBzU0?D|W2kF~Y4m

B: 30596.8543, Layer 4 to 5 Message = ?xS.gBzU0?D|W2kF~Y4m

A: 31797.8120, Layer 5 to 4 Message = A-wdP<)s`LA%o[H4~kWD

B: 31822.3063, Layer 4 to 5 Message = A-wdP<)s`LA%o[H4~kWD

A: 32319.6412, Layer 5 to 4 Message = B?=?,97531x-B)'%#~|zx

B: 32347.8101, Layer 4 to 5 Message = B?=?,97531x-B)'%#~|zx

Printing the contents of the Simulation Event Q

Event Time = 32376.085 A: LAYER 3 Seq/Ack/Check = 1/1/83210822: ACK

Event Time = 33544.496 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 32376.085 A: LAYER 3 Seq/Ack/Check = 1/1/83210822: ACK

Event Time = 32379.641 A: Timer

Event Time = 33544.496 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 32379.641 A: Timer

Event Time = 32396.096 A: LAYER 3 Seq/Ack/Check = 1/1/83210822: ACK

Event Time = 33544.496 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 33544.496 A: LAYER 5

Printing the contents of the Simulation Event Q

A: 33544.4958, Layer 5 to 4 Message = CRbq#2BQap!1CP`o~0?O

Printing the contents of the Simulation Event Q

Event Time = 33572.833 B: LAYER 3 Seq/Ack/Check = 0/0/1320439107:

CRbq#2BQap!1CP`o~0?O

Event Time = 35490.799 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 33576.969 B: LAYER 3 Seq/Ack/Check = 0/0/1320439107:

CRbq#2BQap!1CP`o~0?O

Event Time = 33584.496 A: Timer

Event Time = 35490.799 A: LAYER 5

B: 33572.8332, Layer 4 to 5 Message = CRbq#2BQap!1CP`o~0?O

A: 35490.7993, Layer 5 to 4 Message = De(lj-No2St7XD<^~Bc&

B: 35524.0945, Layer 4 to 5 Message = De(lj-No2St7XD<^~Bc&

A: 37161.0509, Layer 5 to 4 Message = EwL~S(Zxb6i=pEEL~S(Z

B: 37207.7031, Layer 4 to 5 Message = EwL~S(Zxb6i=pEEL~S(Z

A: 37329.0843, Layer 5 to 4 Message = d,pV<#gM3w^D2nTF~eK1

B: 37334.7577, Layer 4 to 5 Message = d,pV<#gM3w^D2nTF~eK1

A: 37835.5757, Layer 5 to 4 Message = Gf6.&{skcZRJB93)Gvnf

B: 37844.3808, Layer 4 to 5 Message = Gf6.&{skcZRJB93)Gvnf

A: 39269.4725, Layer 5 to 4 Message = HQZdmv!+4=GPYclu~H3<

B: 39312.3856, Layer 4 to 5 Message = HQZdmv!+4=GPYclu~H3<

A: 39346.9413, Layer 5 to 4 Message = Id~;Vq.Id~;Vq.Id~;Iq

B: 39371.2810, Layer 4 to 5 Message = Id~;Vq.Id~;Vq.Id~;Iq

A: 40065.9801, Layer 5 to 4 Message = JvEq?!:g5b0J+W&R~MyJ

B: 40084.6703, Layer 4 to 5 Message = JvEq?!:g5b0J+W&R~MyJ

A: 40323.5536, Layer 5 to 4 Message = K+il)gG'eE%cC#aA~\_>|

B: 40342.9434, Layer 4 to 5 Message = K+il)gG'eE%cC#aA~\_>|

A: 41952.7247, Layer 5 to 4 Message = LLx~pbSE6(wiZL=x~pbS

B: 41974.2272, Layer 4 to 5 Message = LLx~pbSE6(wiZL=x~pbS

A: 42918.2245, Layer 5 to 4 Message = dPMVY]`cfilo2ux{~\$'\*

B: 42948.4097, Layer 4 to 5 Message = dPMVY]`cfilo2ux{~\$'\*

A: 43006.8246, Layer 5 to 4 Message = NcwNCWI#7Lau,AUj~5J\_

B: 43016.6977, Layer 4 to 5 Message = NcwNCWI#7Lau,AUj~5J\_

A: 44742.2327, Layer 5 to 4 Message = Ou=dORxAgxU{Dj2X~Gm5

B: 44750.8667, Layer 4 to 5 Message = Ou=dORxAgxU{Dj2X~Gm5

A: 44902.9069, Layer 5 to 4 Message = Pfb;sP'\_8pJ\$[53G~X2]

B: 44922.5766, Layer 4 to 5 Message = Pfb;sP'\_8pJ\$[53G~X2]

A: 45168.6050, Layer 5 to 4 Message = Q<(q]HQ|hS>\*s\_J5~jUA

B: 45194.9636, Layer 4 to 5 Message = Q<(q]HQ|hS>\*s\_J5~jUA

A: 45637.8235, Layer 5 to 4 Message = ROLIFC?R9630-\*\$~{xu

B: 45653.5394, Layer 4 to 5 Message = ROLIFC?R9630-\*\$~{xu

A: 46423.8303, Layer 5 to 4 Message = Sbp~x=LZSw(6ESbp~x=L

B: 46445.8329, Layer 4 to 5 Message = Sbp~x=LZSw(6ESbp~x=L

A: 47866.9560, Layer 5 to 4 Message = dt6Vv8Xx:Tz<2|>\_~Aa#

B: 47895.6073, Layer 4 to 5 Message = dt6Vv8Xx:Tz<2|>\_~Aa#

A: 49106.9470, Layer 5 to 4 Message = U)Z.`3e8j=UCtHyM~R&W

B: 49186.5348, Layer 4 to 5 Message = U)Z.`3e8j=UCtHyM~R&W

A: 49558.5723, Layer 5 to 4 Message = V;~dl.qV;~dV.qV;~dl.

B: 49579.8798, Layer 4 to 5 Message = V;~dl.qV;~dV.qV;~dl.

A: 50437.9163, Layer 5 to 4 Message = WNE;2)}}tkbXOW<3\*~ulc

B: 50478.8845, Layer 4 to 5 Message = WNE;2)}}tkbXOW<3\*~ulc

A: 51201.8344, Layer 5 to 4 Message = Xaiqy\$,4<EMU^Xnv~)19

B: 51220.3890, Layer 4 to 5 Message = Xaiqy\$,4<EMU^Xnv~)19

A: 51975.8299, Layer 5 to 4 Message = Yfxlc|8RI(B[u1Ye~:Tn

B: 52002.7657, Layer 4 to 5 Message = Yfxlc|8RI(B[u1Ye~:Tn

A: 52770.9086, Layer 5 to 4 Message = Z(S~LwEp=i6bxZ(Z~LwE

B: 52809.5149, Layer 4 to 5 Message = Z(S~LwEp=i6bxZ(Z~LwE

A: 53073.0520, Layer 5 to 4 Message = d:wV5rQ0mL+h2&cB[^<y

B: 53096.4661, Layer 4 to 5 Message = d:wV5rQ0mL+h2&cB[^<y

A: 53450.9764, Layer 5 to 4 Message = JM=.|m^N>x}n\_O?0~]`P

B: 53460.0811, Layer 4 to 5 Message = JM=.|m^N>x}n\_O?0~]`P

A: 53589.3073, Layer 5 to 4 Message = ^`bdfhjlnprtvxz|~#^'

B: 53590.5955, Layer 4 to 5 Message = ^`bdfhjlnprtvxz|~#^'

A: 53742.5169, Layer 5 to 4 Message = \_r(;Ocv,?Sgz0DWk~4H\_

B: 53746.2432, Layer 4 to 5 Message = \_r(;Ocv,?Sgz0DWk~4H\_

A: 53866.5753, Layer 5 to 4 Message = `Lq8^%Jo6[#Hm4Y~Fk2

B: 53868.2294, Layer 4 to 5 Message = `Lq8^%Jo6[#Hm4Y~Fk2

A: 54675.5650, Layer 5 to 4 Message = aapl!X1hAwP)`8oH~W0g

B: 54699.5489, Layer 4 to 5 Message = aapl!X1hAwP)`8oH~W0g

A: 56518.8152, Layer 5 to 4 Message = bLb~iS=(pZExwbL6~iS=

B: 56521.8277, Layer 4 to 5 Message = bLb~iS=(pZExwbL6~iS=

A: 58252.2505, Layer 5 to 4 Message = dfZcRNJFB=952-3%~zvr

B: 58255.8202, Layer 4 to 5 Message = dfZcRNJFB=952-3%~zvr

A: 58428.6566, Layer 5 to 4 Message = dq~.dIVdq~.;lVdq~.;l

B: 58433.4174, Layer 4 to 5 Message = dq~.dIVdq~.;lVdq~.;l

Printing the contents of the Simulation Event Q

Event Time = 58448.657 A: Timer



Event Time = 58758.328 A: LAYER 5

Printing the contents of the Simulation Event Q

A: 58758.3282, Layer 5 to 4 Message = e&Ed%ec\$Cb#Ba!A`~?\_ }

Printing the contents of the Simulation Event Q

Event Time = 58778.328 A: Timer

Event Time = 59098.003 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 59098.003 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 58799.593 B: LAYER 3 Seq/Ack/Check = 1/1/537157698:

e&Ed%ec\$Cb#Ba!A`~?\_ }

Event Time = 59098.003 A: LAYER 5

Printing the contents of the Simulation Event Q

Event Time = 58799.824 B: LAYER 3 Seq/Ack/Check = 1/1/537157698:

e&Ed%ec\$Cb#Ba!A`~?\_ }

Event Time = 58818.328 A: Timer

Event Time = 59098.003 A: LAYER 5

B: 58799.5927, Layer 4 to 5 Message = e&Ed%ec\$Cb#Ba!A`~?\_ }

A: 59098.0031, Layer 5 to 4 Message = f8i;l>fBrEuHxK{N~Q\$T

B: 59107.2645, Layer 4 to 5 Message = f8i;l>fBrEuHxK{N~Q\$T

A: 60262.0116, Layer 5 to 4 Message = gKxqU9{gD(jN2tX<~cG+

B: 60285.7060, Layer 4 to 5 Message = gKxqU9{gD(jN2tX<~cG+

A: 60848.6021, Layer 5 to 4 Message = h^SI>4\*}hi\_TJ?5+~tj`

B: 60875.6301, Layer 4 to 5 Message = h^SI>4\*}hi\_TJ?5+~tj`

A: 62201.3066, Layer 5 to 4 Message = ipw~(x6=EiSZbipw~(x6

B: 62204.9108, Layer 4 to 5 Message = ipw~(x6=EiSZbipw~(x6

A: 62718.2692, Layer 5 to 4 Message = d%=Vo\*C[txja24Mf~9Rk

B: 62745.0945, Layer 4 to 5 Message = d%=Vo\*C[txja24Mf~9Rk

A: 63905.1839, Layer 5 to 4 Message = k7b.X%OyFp<k3^\*T~KuB

B: 63909.6985, Layer 4 to 5 Message = k7b.X%OyFp<k3^\*T~KuB

A: 65168.3256, Layer 5 to 4 Message = lf(dB)[9uS1ml)3C~]:v

B: 65209.3867, Layer 4 to 5 Message = lf(dB)[9uS1ml)3C~]:v

A: 66680.1962, Layer 5 to 4 Message = m]L;+xhWG6&scmB1~n^M

B: 66709.7765, Layer 4 to 5 Message = m]L;+xhWG6&scmB1~n^M

A: 68631.6172, Layer 5 to 4 Message = nopqrstuvwxyz{n}~!#\$

B: 68643.3857, Layer 4 to 5 Message = nopqrstuvwxyz{n}~!#\$

A: 69019.3903, Layer 5 to 4 Message = o\$6l[n#5HZm!4GYo~3FX

B: 69026.5534, Layer 4 to 5 Message = o\$6l[n#5HZm!4GYo~3FX

A: 70266.7965, Layer 5 to 4 Message = p6Z~EixSw=b(Lp6ZpEix

B: 70270.2635, Layer 4 to 5 Message = p6Z~EixSw=b(Lp6ZpEix

A: 70445.6168, Layer 5 to 4 Message = dl~V.d;ql~V.2;ql~q.d

B: 70458.6277, Layer 4 to 5 Message = dl~V.d;ql~V.2;ql~q.d

A: 71930.4503, Layer 5 to 4 Message = r[E.u\_H1xbK4{eN7~hr:

B: 71932.6458, Layer 4 to 5 Message = r[E.u\_H1xbK4{eN7~hr:

A: 72869.8892, Layer 5 to 4 Message = snid\_YTOJE?:50+&~yts

B: 72895.9703, Layer 4 to 5 Message = snid\_YTOJE?:50+&~yts

A: 74471.9358, Layer 5 to 4 Message = t#x;HTamy(4AMYfr~-9F

B: 74482.2358, Layer 4 to 5 Message = t#x;HTamy(4AMYfr~-9F

A: 75067.2772, Layer 5 to 4 Message = uuSq1Om-Ki)Ge%3a~>]z

B: 75135.7461, Layer 4 to 5 Message = uuSq1Om-Ki)Ge%3a~>]z

A: 76653.1360, Layer 5 to 4 Message = vHvIxJyKzL{M|N}O~P!Q

B: 76655.7081, Layer 4 to 5 Message = vHvIxJyKzL{M|N}O~P!Q

A: 78278.7404, Layer 5 to 4 Message = wZ=wbE(iLxpS6wZ=~bE(

B: 78288.2255, Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(

A: 79103.3311, Layer 5 to 4 Message = dmbVx?4){peY2C7,~sh]

B: 79112.3894, Layer 4 to 5 Message = dmbVx?4){peY2C7,~sh]

A: 80453.0310, Layer 5 to 4 Message = y!(.4yAGMSY`flrx~'-3

B: 80482.2740, Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3

A: 80797.7529, Layer 5 to 4 Message = z4Ld{5ze|6Nf}7Og~8Ph

B: 80816.9920, Layer 4 to 5 Message = z4Ld{5ze|6Nf}7Og~8Ph

A: 82103.4963, Layer 5 to 4 Message = {Gp;e0Y{NwCI7a,U~Js>

B: 82112.5161, Layer 4 to 5 Message = {Gp;e0Y{NwCI7a,U~Js>

A: 82213.5430, Layer 5 to 4 Message = |Y6qN+fC|Z7rO,gD~[8s

B: 82239.1635, Layer 4 to 5 Message = |Y6qN+fC|Z7rO,gD~[8s

A: 82754.8569, Layer 5 to 4 Message = }lZI7&raO},xgUD2~m[J

B: 82835.4826, Layer 4 to 5 Message = }lZI7&raO},xgUD2~m[J

A: 82978.9793, Layer 5 to 4 Message = ~fDUgx,=Oa~&7l3l}1CT

B: 83018.7121, Layer 4 to 5 Message = ~fDUgx,=Oa~&7l3l}1CT

A: 84277.4903, Layer 5 to 4 Message = !3EVhy->Pbs'2J[m~2DU

B: 84318.6060, Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU

A: 84431.2405, Layer 5 to 4 Message = ##i.Qt9]!Eh-Ps8[~Dg,

B: 84451.1643, Layer 4 to 5 Message = ##i.Qt9]!Eh-Ps8[~Dg,

A: 85317.6506, Layer 5 to 4 Message = \$X\$d:oFzQ(j3h>sJ~U,a

B: 85323.3896, Layer 4 to 5 Message = \$X\$d:oFzQ(j3h>sJ~U,a

A: 86223.5321, Layer 5 to 4 Message = %kS%\$jR:#iQ9!hP8~gO7

B: 86250.9905, Layer 4 to 5 Message = %kS%\$jR:#iQ9!hP8~gO7

A: 86755.1322, Layer 5 to 4 Message = &}wq&e\_XRLF?93-~xrl

B: 86757.6860, Layer 4 to 5 Message = &}wq&e\_XRLF?93-~xrl

A: 88222.9427, Layer 5 to 4 Message = '2=IT'kv\$x:FQ]hs~,7C

B: 88240.5204, Layer 4 to 5 Message = '2=IT'kv\$x:FQ]hs~,7C

A: 89163.3137, Layer 5 to 4 Message = (Eb~=Z(6SpxLi(Eb~=Zw

B: 89177.1924, Layer 4 to 5 Message = (Eb~=Z(6SpxLi(Eb~=Zw

Printing the contents of the Simulation Event Q

Event Time = 89183.314 A: Timer

Event Time = 90625.771 A: LAYER 5

Printing the contents of the Simulation Event Q

A: 90625.7713, Layer 5 to 4 Message = dW(V'U&)%S\$R2Q!P~O}N

Printing the contents of the Simulation Event Q

Event Time = 90645.771 A: Timer

Event Time = 91638.146 A: LAYER 5

B: 90630.2033, Layer 4 to 5 Message = dW(V'U&)%S\$R2Q!P~O}N

A: 91638.1464, Layer 5 to 4 Message = \*fL.nP2r\*6vX:z3>~aC%

B: 91651.8015, Layer 4 to 5 Message = \*fL.nP2r\*6vX:z3>~aC%

Simulator terminated at time 91658.146414

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: 476

Average number of packets already in network: 0.263

Number of packets that the network lost: 48

Number of packets that the network corrupted: 47

Number of packets that the network put out of order: 37