Α:

Α:

2.6134,

2.7498,

Layer 5 to 4

Message = $?xS_gBzU0?D|W2kF\sim Y4m$

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

```
Α:
            2.9407,
                         Layer 5 to 4
                                             Message = B?=:97531x-B)'%\#\sim|zx
Α:
                         Layer 5 to 4
            3.0179,
                                            Message = CRbq#2BQap!1CP`o~0?0
Α:
            3.0217,
                         Layer 5 to 4
                                             Message = De(Ij-No2St7XD<^{R})
Α:
            3.1143,
                         Layer 5 to 4
                                             Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
Α:
            3.2968,
                         Layer 5 to 4
                                             Message = d,pV<#gM3w^D2nTF~eK1
Α:
            3.4209,
                         Layer 5 to 4
                                             Message = Gf6.&{skcZRJB93)Gvnf
                         Layer 5 to 4
Α:
            3.4707,
                                             Message = HOZdmv!+4=GPYclu~H3<
                         Layer 5 to 4
Α:
            3.6549,
                                             Message = Id~;Vq.Id~;Vq.Id~;Iq
Α:
                         Layer 5 to 4
                                             Message = JvEq?l:g5b0]+W&R~MyJ
            3.7614,
                         Layer 5 to 4
Α:
            3.8079,
                                             Message = K+iI)qG'eE%cC#aA~>|
Α:
            3.8964,
                         Layer 5 to 4
                                             Message = LLx~pbSE6(wiZL=x~pbS
Α:
            4.0522,
                         Layer 5 to 4
                                             Message = dPMVY]`cfilo2ux{~$'*
                         Layer 5 to 4
Α:
            4.1043,
                                             Message = NcwNCWl#7Lau,AUj~5J
Α:
                         Layer 5 to 4
            4.1117,
                                             Message = Ou=dORxAgxU{Di2X\sim Gm5}
Α:
            4.1181,
                         Layer 5 to 4
                                             Message = Pfb;sP'_8pJ$[53G~X2j
Α:
            4.1856,
                         Layer 5 to 4
                                             Message = Q<(q]HQ|hS>*s_J5\sim jUA
            4.2617,
Α:
                         Layer 5 to 4
                                             Message = ROLIFC?R9630-*'^{\text{xu}}
Α:
            4.2618,
                         Layer 5 to 4
                                             Message = Sbp\sim x=LZSw(6ESbp\sim x=L
                         Layer 5 to 4
Α:
            4.2881,
                                             Message = dt6Vv8Xx:Tz<2|>_~Aa#
                                            Message = U)Z.^3e8j=UCtHyM\sim R\&W
                         Layer 5 to 4
Α:
            4.3469.
                         Layer 5 to 4
Α:
            4.5197,
                                             Message = V;~dI.qV;~dV.qV;~dI.
Α:
            4.5430,
                         Layer 5 to 4
                                             Message = WNE;2)tkbX0W<3*~ulc
Α:
            4.6075,
                         Layer 5 to 4
                                            Message = Xaigy$,4<EMU^Xnv~)19
                         Layer 5 to 4
Α:
            4.7950,
                                             Message = YfxIc|8Rl(B[u1Ye\sim:Tn]
                         Layer 5 to 4
Α:
            4.8116,
                                             Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
                                             Message = d:wV5r00mL+h2\&cB[^<v]
Α:
            4.9632.
                         Layer 5 to 4
Α:
            5.0471,
                         Layer 5 to 4
                                             Message = ]M=.[m^N>x}n_0?0\sim]^P
Α:
            5.1740,
                         Layer 5 to 4
                                            Message = ^`bdfhjlnprtvxz|~#^'
                         Layer 5 to 4
Α:
            5.1896,
                                             Message = _r(;0cv,?Sgz0DWk\sim4H_
                                            Message = Lg8^{3}J06[\#Hm4Y\sim Fk2]
Α:
            5.2990,
                         Layer 5 to 4
            5.3415,
                         Layer 5 to 4
                                             Message = aapI!X1hAwP)`8oH~W0g
Α:
                         Layer 5 to 4
Α:
            5.3637,
                                             Message = bLb\sim iS=(pZExwbL6\sim iS=
                         Layer 5 to 4
Α:
            5.5583,
                                             Message = dfZcRNJFB=952-3%~zvr
                         Layer 5 to 4
Α:
            5.7439,
                                             Message = dq~.dIVdq~.;IVdq~.;I
Α:
            5.7627,
                         Layer 5 to 4
                                             Message = e&Ed%ec$Cb#Ba!A`~? }
Α:
            5.8945,
                         Layer 5 to 4
                                            Message = f8i;l>fBrEuHxK{N~Q$T
                         Layer 5 to 4
            5.9428,
Α:
                                             Message = gKxqU9\{gD(jN2tX<\sim cG+
                         Layer 5 to 4
Α:
            6.0313,
                                             Message = h^SI>4*hi TJ?5+\simti
                         Layer 5 to 4
Α:
            6.2126,
                                             Message = ipw \sim (x6 = EiSZbipw \sim (x6)
Α:
            6.2538,
                         Layer 5 to 4
                                             Message = d=Vo*C[txja24Mf~9Rk
Α:
            6.2907.
                         Layer 5 to 4
                                             Message = k7b.X%0vFp<k3^*T\sim KuB
                         Layer 5 to 4
Α:
            6.4085,
                                            Message = lf(dB)[9uS1ml)3C\sim]:v
Α:
            6.4523,
                         Layer 5 to 4
                                             Message = m]L;+xhWG6\&scmB1~n^M
Α:
            6.5425,
                         Layer 5 to 4
                                             Message = nopgrstuvwxyz\{n\}\sim!\#$
Α:
            6.6716,
                         Layer 5 to 4
                                             Message = o$6I[n#5HZm!4GYo~3FX]
                         Layer 5 to 4
Α:
            6.8610,
                                             Message = p6Z\sim EixSw=b(Lp6ZpEix)
                         Layer 5 to 4
Α:
            6.9478,
                                             Message = dI \sim V.d; qI \sim V.2; qI \sim q.d
                         Layer 5 to 4
                                             Message = r[E.u H1xbK4{eN7\sim hr}]
Α:
            7.1268,
                         Layer 5 to 4
Α:
            7.1589,
                                             Message = snid_YTOJE?:50+&~yts
Α:
            7.3080,
                         Layer 5 to 4
                                            Message = t = t \times HTamy(4AMYfr \sim -9F)
```

```
Α:
         7.3494,
                   Layer 5 to 4
                                  Message = uuSg10m-Ki)Ge%3a~>]z
Α:
                   Layer 5 to 4
         7.5468,
                                  Message = vHvIxJyKzL\{M|N\}0\sim P!Q
Α:
         7.6270,
                   Layer 5 to 4
                                  Message = wZ=wbE(iLxpS6wZ=\sim bE(
Α:
                   Layer 5 to 4
         7.7768,
                                  Message = dmbVx?4){peY2C7, \sim sh]
Α:
         7.8969,
                   Layer 5 to 4
                                  Message = y!(.4yAGMSY)flrx~'-3
Α:
         7.9505,
                   Layer 5 to 4
                                  Message = z4Ld{5ze|6Nf}70g~8Ph
                   Layer 5 to 4
         7.9710,
                                  Message = {Gp;e0Y{NwCl7a,U~Js>
Α:
                   Layer 5 to 4
Α:
         8.0500,
                                  Message = |Y6qN+fC|Z7r0,gD\sim[8s]
Α:
         8.0894,
                   Layer 5 to 4
                                  Message = }lZI7&ra0},xgUD2~m[J
                   Layer 5 to 4
Α:
         8.0894,
                                  Message = \simfDUgx,=0a\sim&7I3l}1CT
                   Layer 5 to 4
                                  Message = !3EVhy->Pbs'2J[m~2DU
Α:
         8.1361,
Α:
         8.2028,
                   Layer 5 to 4
                                  Message = \#\#i.Qt9]!Eh-Ps8[~Dg,
                   Layer 5 to 4
Α:
         8.2743,
                                  Message = X$d:oFzQ(]3h>sJ\sim U,a
                   Layer 5 to 4
Α:
         8.3471.
                                  Message = %kS%iR:#iQ9!hP8~q07
Β:
         8.3822,
                   Layer 4 to 5
                                  Message = !fEVhy->Pbs'2J3m~2DU
Α:
         8.4241,
                   Layer 5 to 4
                                  Message = \&}wg&e XRLF?93-'~xrl
         8.4767,
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
Α:
                   Layer 5 to 4
Α:
         8.6089,
                   Layer 5 to 4
                                  Message = (Eb \sim = Z(6SpxLi(Eb \sim = Zw))
                   Layer 5 to 4
Α:
         8.7795,
                                  Message = dW(V'U\&)%S$R2Q!P~0N
                   Layer 5 to 4
Α:
         8.8027.
                                  Message = *fL.nP2r*6vX:z3>~aC%
                   Layer 5 to 4
Α:
         8.8304,
                                  Message = +|pdWK>2&+k RF9-\simrfY
Α:
                   Layer 5 to 4
                                  Message = ,16;AFKPUZ,ejoty~&+0
         8.9120,
Α:
         8.9268,
                   Layer 5 to 4
                                  Message = -DZg*AWn'=T-$:Qh~7Ne
Α:
         9.1162,
                   Layer 5 to 4
                                  Message = V\sim Iq;dV\sim Iq.dV\sim Iq;
Α:
         9.2176,
                   Layer 5 to 4
                                  Message = xiE\sim Z6pL(b=wSxiE\sim Z6p)
<< Initial Skips to 'Simulator terminated at time 9.040314 >>
                   Layer 4 to 5
B:
     10035.6216,
                                  Message = \#\#i.Qt9]!Eh-Ps8[\simDq,
                   Layer 4 to 5
В:
     10064.9607,
                                  Message = X$d:oFzQ(]3h>sJ\sim U,a
B:
     10096.9734,
                   Layer 4 to 5
                                  Message = %kS% iR:#iQ9!hP8~g07
B:
     10131.3586.
                   Layer 4 to 5
                                  Message = &\wg&e XRLF?93-'~xrl
                                  Message = '2=IT'kv$x:FQ]hs\sim,7C
В:
     10169.2890,
                   Layer 4 to 5
B:
                   Layer 4 to 5
                                  Message = (Eb \sim = Z(6SpxLi(Eb \sim = Zw))
     10214.5357,
B:
     10264.1494,
                   Layer 4 to 5
                                  Message = dW(V'U\&)%S$R2Q!P~O\}N
В:
     10295.3861,
                   Layer 4 to 5
                                  Message = *iL.nP2r*6vX:z]>~aC%
B:
     10319.6895,
                   Layer 4 to 5
                                  Message = +fpdWK>2&+k_RF3-\sim rfY
B:
     10370.1499,
                   Layer 4 to 5
                                  Message = ,16;AFKPUZ,ejoty~&+0
                                  Message = -DZq*AWn'=T-$:Qh~7Ne
В:
     10401.1093,
                   Layer 4 to 5
B:
                                  Message = .V~Iq;d.V~Iq.d.V~Iq;
     15425.3183.
                   Layer 4 to 5
B:
                   Layer 4 to 5
                                  Message = xiE\sim Z6pL(b=wSxiE\sim Z6p)
     15437.7966.
B:
                                  Message = d\{iVD1|jWE2\}2X03\sim lYG
     15464.4555,
                   Layer 4 to 5
B:
     15470.3089,
                   Layer 4 to 5
                                  Message = 10x_-,+*)('\&%$#1~)|{
B:
     25509.0113.
                   Layer 4 to 5
                                  Message = 2CSdt'7HXiy,<M^n21BR</pre>
В:
     25544.4374,
                   Layer 4 to 5
                                  Message = 3Uw;^!Df*Ln2Tv:]~3e
B:
     25571.2153,
                   Layer 4 to 5
                                  Message = 4f=gGzP&Yxc8lB3K~T4^
                                  Message = 5zbI0u]D+pW>&kR9~fM5
B:
                   Layer 4 to 5
     25594.1263,
B:
                   Layer 4 to 5
                                  Message = 6x(\sim wpibZSLE=6x(\sim wpi
     35643.8610,
В:
     35675.8354,
                   Layer 4 to 5
                                  Message = d7LVaku!,6AK2`jt~+5?
```

```
B:
            40725.0821.
                                              Layer 4 to 5 Message = 8T8.Jf$?[w50m+Gc~<Xt
            45719.6405,
B:
                                              Layer 4 to 5 Message = 9g693a0^-Z*W'T$0~N{K}
B:
            45742.0754,
                                              Layer 4 to 5 Message = yZ;:[<{]=|^>}_?\sim`A!
B:
            45780.0862.
                                             Layer 4 to 5
                                                                                 Message = ;.\sim qd;I;.\sim qdVI;.\sim qdV
                                                                                 Message = <AEIMQ<Y^bfjnrvz~%)-</pre>
B:
            50803.3268.
                                              Layer 4 to 5
B:
            50820.6294,
                                              Layer 4 to 5
                                                                                 Message = = fi \sim 6Lb = xEZp(=3i \sim 6Lb)
B:
                                             Laver 4 to 5
                                                                                 Message = dfxVGn7>(0v2g0W~Ho8
            50848.3950.
B:
                                             Layer 4 to 5
                                                                                 Message = ?xS.gBzU0?D|W2kF\sim Y4m
            50862.2262,
B:
            60913.6154,
                                             Layer 4 to 5
                                                                                 Message = A-wdP<)s`LA%o[H4~kWD
B:
            65941.1083, Layer 4 to 5
                                                                                 Message = B?=;97531x-B)'%\#\sim|zx
Printing the contents of the Simulation Event Q
Event Time = 70917.333 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 70949.949 A: Timer
Printing the contents of the Simulation Event O
Event Time = 70949.949 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 75949.949 A: Timer
Β:
            70975.7261.
                                              Layer 4 to 5
                                                                                 Message = CRbg#2BQap!1CP`o~0?0
B:
            70995.1479,
                                             Layer 4 to 5 Message = De(Ij-No2St7XD<^~Bc&
B:
                                             Layer 4 to 5
                                                                                 Message = EwL\sim S(Zxb6i=pEEL\sim S(Zxb6i=pEEL) )))
            71037.8425.
B:
            71094.2146,
                                             Layer 4 to 5
                                                                                 Message = d_pV<\#gM3w^D2nTF\sim eK1
B:
            76119.7076,
                                              Layer 4 to 5
                                                                                 Message = Gf6.&{skcZRJB93)Gvnf
B:
            76156.5620,
                                              Layer 4 to 5
                                                                                 Message = HQZdmv!+4=GPYclu~H3<
B:
            76167.9566,
                                              Layer 4 to 5
                                                                                 Message = Id~; Vg.Id~; Vg.Id~; Ig
            91213.2800,
B:
                                              Layer 4 to 5
                                                                                 Message = JvEq?l:g5b0]+W&R~MyJ
Β:
                                                                                 Message = K+iI) qG'eE%cC#aA~ >|
            96239.6133,
                                              Layer 4 to 5
B:
          101268.5256.
                                              Layer 4 to 5
                                                                                  Message = LLx~pbSE6(wiZL=x~pbS
B:
          101276.7735,
                                              Layer 4 to 5
                                                                                 Message = dPMVY]`cfilo2ux{~$'*
B:
          101297.5124.
                                              Layer 4 to 5
                                                                                 Message = NcwNCWl#7Lau.AUi~5J
                                              Layer 4 to 5
                                                                                 Message = 0u=d0RxAgxU\{Dj2X\sim Gm5
В:
          106350.0553,
B:
          111390.4888,
                                              Layer 4 to 5
                                                                                 Message = Pfb;sP'_8pJ$[53G~X2j
                                                                                 Message = Q<(q]HQ|hS>*s J5~iUA
          111437.9356,
                                              Layer 4 to 5
B:
B:
          111469.6895,
                                              Layer 4 to 5
                                                                                 Message = ROLIFC?R9630-*'^{\text{xu}}
                                              Layer 4 to 5
B:
          116487.8444,
                                                                                 Message = Sbp \sim x = LZSw(6ESbp \sim x = L
Β:
                                             Layer 4 to 5
                                                                                 Message = dt6Vv8Xx:Tz<2|> ~Aa#
         116518.1237,
B:
          116539.8506,
                                              Layer 4 to 5
                                                                                 Message = U)Z.`3e8j=UCtHyM~R&W
```

B:

121569.5224,

Layer 4 to 5

Message = V;~dI.qV;~dV.qV;~dI.

```
B:
    126587.8756.
                   Layer 4 to 5
                                 Message = WNE;2)tkbX0W<3*\sim ulc
B:
    136629.3321,
                   Layer 4 to 5
                                 Message = Xaiqy, 4 < EMU^Xnv^2) 19
                                 Message = YfxIc|8Rl(B[u1Ye~:Tn
B:
    136635.2304,
                   Layer 4 to 5
B:
    141654.3050.
                   Layer 4 to 5
                                 Message = Z(S\sim LwEp=i6bxZ(Z\sim LwE
                                 Message = d:wV5r00mL+h2\&cB[^<v]
В:
    146701.6159.
                   Layer 4 to 5
B:
    146727.6493,
                   Layer 4 to 5
                                 Message = 1M=.1m^N>xn 0?0~1`P
                                 Message = ^`bdfhilnprtvxz!~#^'
B:
                   Laver 4 to 5
    151759.2916.
                                 Message = r(;0cv,?Sgz0DWk\sim4H
                   Layer 4 to 5
B:
    151792.5756,
                                 Message = 'Lq8^%Jo6[#Hm4Y~Fk2
B:
    151843.4938,
                   Layer 4 to 5
B:
    151879.9203,
                   Layer 4 to 5
                                 Message = aapI!X1hAwP)`8oH~W0g
B:
    161902.2550.
                   Layer 4 to 5
                                  Message = bLb\sim iS=(pZExwbL6\sim iS=
B:
    161937.5611,
                   Layer 4 to 5
                                  Message = dfZcRNJFB=952-3%~zvr
B:
                   Layer 4 to 5
                                  Message = dq\sim.dIVdq\sim.;IVdq\sim.;I
    161968.5136,
Printing the contents of the Simulation Event Q
Event Time = 166958.527 A: Timer
Printing the contents of the Simulation Event Q
Event Time = 166972.551 A: Timer
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Event Time = 176972.551 A: Timer
B:
    171993.7427.
                                 Message = e\&Ed\%ec\$Cb\#Ba!A^{\}\sim? }
                   Layer 4 to 5
                   Layer 4 to 5
                                 Message = f8i;l>fBrEuHxK{N~Q$T
B:
    172030.0327,
B:
    172073.6133,
                   Layer 4 to 5
                                 Message = gKxgU9\{gD(jN2tX < \sim cG +
B:
    172118.9043,
                   Layer 4 to 5
                                 Message = h^SI>4*hi TJ?5+\simtj
B:
    172155.9161,
                   Layer 4 to 5
                                 Message = ipw \sim (x6 = EiSZbipw \sim (x6)
B:
    172197.6156,
                   Layer 4 to 5
                                 Message = d=Vo*C[txja24Mf~9Rk
В:
    172246.3783,
                   Layer 4 to 5
                                 Message = k7b \cdot X%0yFp < k3^*T \sim KuB
                                  Message = lf(dB)[9uS1ml)3C\sim]:v
B:
    172255.7330.
                   Layer 4 to 5
B:
    172274.2512,
                   Layer 4 to 5
                                 Message = m]L;+xhWG6\&scmB1~n^M
B:
    177309.0665,
                   Layer 4 to 5
                                 Message = nopgrstuvwxvz\{n\}\sim!\#$
                   Layer 4 to 5
                                 Message = o$6I[n#5HZm!4GYo~3FX]
В:
    177344.9104,
B:
    177376.9967,
                   Layer 4 to 5
                                 Message = p6Z\sim EixSw=b(Lp6ZpEix)
    177427.2171,
                   Layer 4 to 5
                                  Message = dI\sim V.d;qI\sim V.2;qI\sim q.d
B:
                                 Message = r[E_u H1xbK4{eN7}hr:
B:
    177437.2099.
                   Layer 4 to 5
                   Layer 4 to 5
                                 Message = snid YT0JE?:50+&~yts
B:
    177467.2978,
B:
    177512.1721,
                   Layer 4 to 5
                                 Message = t = t \times HTamy(4AMYfr \sim -9F)
B:
    177550.7030,
                   Layer 4 to 5
                                 Message = uuSq10m-Ki)Ge%3a~>]z
B:
    177599.9248,
                   Layer 4 to 5
                                  Message = vHvIxJyKzL\{M|N\}0\sim P!Q
```

```
B:
    177632.9815.
                  Layer 4 to 5 Message = wZ=wbE(iLxpS6wZ=~bE(
   177678.2660,
B:
                  Layer 4 to 5 Message = dmbVx?4){peY2C7, \sim sh]
                  Layer 4 to 5 Message = y!(.4yAGMSY`flrx~'-3
B:
    177717.4997,
В:
    182706.7700.
                  Layer 4 to 5 Message = z4Ld{5ze|6Nf}70g\sim8Ph
B:
                  Layer 4 to 5 Message = {Gp;e0Y{NwCl7a,U~Js>
    192733.8091,
                  Layer 4 to 5
B:
    192783.4176,
                                Message = |Y6qN+fC|Z7r0,qD\sim[8s]
   192818.9639,
                 Laver 4 to 5 Message = }\ZI7&ra0\.xgUD2~m[J
B:
   192857.3689,
                  Layer 4 to 5 Message = \sim fDUgx_=0a\sim \&7I3l1CT
B:
B:
   192881.9370,
                  Layer 4 to 5 Message = !3EVhy->Pbs'2J[m~2DU
   192914.8250,
                  Layer 4 to 5 Message = \#i.Qt9]!Eh-Ps8[~Dq,
В:
B:
   197943.4029.
                  Layer 4 to 5
                                Message = X$d:oFzQ(]3h>sJ\sim U_a
                                Message = %kS%$jR:#iQ9!hP8~g07
B:
   197994.1336.
                 Layer 4 to 5
   198035.9796,
B:
                 Layer 4 to 5
                                Message = \&}wg&e XRLF?93-'~xrl
                 Layer 4 to 5 Message = '2=IT'kv$x:FQ]hs~,7C
B:
    203035.0986.
B:
    203053.2728, Layer 4 to 5
                                Message = (Eb\sim=Z(6SpxLi(Eb\sim=Zw))
Printing the contents of the Simulation Event Q
Event Time = 208041.531 A: Timer
Printing the contents of the Simulation Event O
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event Q
Printing the contents of the Simulation Event O
Event Time = 223080.468 A: Timer
B:
    218103.3645, Layer 4 to 5 Message = dW(V'U\&)%S$R2Q!P\sim0N
B:
    218141.6897, Layer 4 to 5 Message = *fL.nP2r*6vX:z3>~aC%
Simulator terminated at time 218143.072440
 after receiving 100 msgs at layer5
Simulator Analysis:
 Number of messages sent from 5 to 4: 104
 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: 271
 Average number of packets already in network:
                                                    0.000
 Number of packets that the network lost: 23
 Number of packets that the network corrupted: 25
 Number of packets that the network put out of order: 31
```