
TP3: Qualité de Service et Dimensionnement

Simulation d'une file d'attente M/M/1

```
lamda=3.8;
mu=4;
z=1000;
Tl=-log(rand)/lamda;
X=[0,0,Inf,Tl];% initialisation de X=(N,t,TD,TA)
% Matrice dont chaque ligne contient X=(N',t',TD',TA')
M=X;
for i=2:z
    N=X(1);
    Td=X(3);
    Ta=X(4);
    if Ta<Td
        Nprime=N+1;
        tprime=Ta;
        T=-log(rand)/lamda;
        Taprime=Ta+T;
        if N==0
            S=-log(rand)/mu;

            Tdprime=Ta+S;

        else
            Tdprime=Td;
        end
        X=[Nprime,tprime,Tdprime,Taprime];
        M=[M;X];
    else

        Nprime=N-1;
        if(Nprime==0)
            Tdprime=Inf;
        else
            Tdprime=Td+S;
        end
        tprime=Td;
        S=-log(rand)/mu;
        Taprime=Ta;
        X=[Nprime,tprime,Tdprime,Taprime];
        M=[M;X];
    end
end
M
figure;
```

```

Ntab=M(:,1).';
j=1:1000;
plot(j,Ntab);
xlabel('Temps');
ylabel('capacité');
title('Courbe de la capacité du système en fonction du temps');
figure(2);
Ntab=M(:,1).';
j=1:1000;
bar(Ntab);
xlabel('Temps');
ylabel('capacité');
title('Courbe de la capacité du système en fonction du temps');

```

$M =$

0	0	Inf	0.0315
1.0000	0.0315	0.5262	0.7907
0	0.5262	Inf	0.7907
1.0000	0.7907	1.0128	1.0179
0	1.0128	Inf	1.0179
1.0000	1.0179	1.0227	1.0935
0	1.0227	Inf	1.0935
1.0000	1.0935	1.3324	1.7096
0	1.3324	Inf	1.7096
1.0000	1.7096	1.7155	1.8574
0	1.7155	Inf	1.8574
1.0000	1.8574	1.8587	2.0980
0	1.8587	Inf	2.0980
1.0000	2.0980	2.1071	2.2052
0	2.1071	Inf	2.2052
1.0000	2.2052	2.3634	2.5227
0	2.3634	Inf	2.5227
1.0000	2.5227	2.7491	2.5553
2.0000	2.5553	2.7491	2.8710
1.0000	2.7491	2.9754	2.8710
2.0000	2.8710	2.9754	3.0750
1.0000	2.9754	2.9881	3.0750
0	2.9881	Inf	3.0750
1.0000	3.0750	3.5442	3.2174
2.0000	3.2174	3.5442	3.9058
1.0000	3.5442	4.0134	3.9058
2.0000	3.9058	4.0134	4.2343
1.0000	4.0134	4.1494	4.2343
0	4.1494	Inf	4.2343
1.0000	4.2343	4.4982	4.2745
2.0000	4.2745	4.4982	4.2847
3.0000	4.2847	4.4982	4.2973
4.0000	4.2973	4.4982	4.7130
3.0000	4.4982	4.7622	4.7130
4.0000	4.7130	4.7622	4.8407
3.0000	4.7622	4.8281	4.8407
2.0000	4.8281	4.8492	4.8407

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3.0000	4.8407	4.8492	4.9337
2.0000	4.8492	4.9759	4.9337
3.0000	4.9337	4.9759	5.1848
2.0000	4.9759	5.0499	5.1848
1.0000	5.0499	5.3950	5.1848
2.0000	5.1848	5.3950	5.3824
3.0000	5.3824	5.3950	5.4977
2.0000	5.3950	6.2208	5.4977
3.0000	5.4977	6.2208	5.6709
4.0000	5.6709	6.2208	6.0403
5.0000	6.0403	6.2208	6.3593
4.0000	6.2208	6.5400	6.3593
5.0000	6.3593	6.5400	6.3896
6.0000	6.3896	6.5400	6.4289
7.0000	6.4289	6.5400	6.8397
6.0000	6.5400	6.6475	6.8397
5.0000	6.6475	6.8771	6.8397
6.0000	6.8397	6.8771	7.1978
5.0000	6.8771	6.9069	7.1978
4.0000	6.9069	6.9153	7.1978
3.0000	6.9153	7.0352	7.1978
2.0000	7.0352	7.4851	7.1978
3.0000	7.1978	7.4851	7.3088
4.0000	7.3088	7.4851	7.4679
5.0000	7.4679	7.4851	7.8313
4.0000	7.4851	7.5328	7.8313
3.0000	7.5328	8.3366	7.8313
4.0000	7.8313	8.3366	8.0993
5.0000	8.0993	8.3366	8.2195
6.0000	8.2195	8.3366	8.2232
7.0000	8.2232	8.3366	8.6375
6.0000	8.3366	8.7003	8.6375
7.0000	8.6375	8.7003	8.6692
8.0000	8.6692	8.7003	8.8667
7.0000	8.7003	8.7699	8.8667
6.0000	8.7699	9.2298	8.8667
7.0000	8.8667	9.2298	9.0617
8.0000	9.0617	9.2298	9.6280
7.0000	9.2298	9.2822	9.6280
6.0000	9.2822	9.3153	9.6280
5.0000	9.3153	9.4288	9.6280
4.0000	9.4288	10.0113	9.6280
5.0000	9.6280	10.0113	10.5100
4.0000	10.0113	10.0353	10.5100
3.0000	10.0353	10.8416	10.5100
4.0000	10.5100	10.8416	10.6092
5.0000	10.6092	10.8416	10.8661
4.0000	10.8416	10.8445	10.8661
3.0000	10.8445	11.0156	10.8661
4.0000	10.8661	11.0156	11.6604
3.0000	11.0156	11.0831	11.6604
2.0000	11.0831	11.1632	11.6604
1.0000	11.1632	11.2519	11.6604
0	11.2519	Inf	11.6604

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1.0000	11.6604	12.1025	11.9450
2.0000	11.9450	12.1025	12.1867
1.0000	12.1025	12.5446	12.1867
2.0000	12.1867	12.5446	12.5780
1.0000	12.5446	12.5655	12.5780
0	12.5655	Inf	12.5780
1.0000	12.5780	12.7450	13.2311
0	12.7450	Inf	13.2311
1.0000	13.2311	13.3120	13.2575
2.0000	13.2575	13.3120	13.5101
1.0000	13.3120	13.3929	13.5101
0	13.3929	Inf	13.5101
1.0000	13.5101	13.5297	13.5436
0	13.5297	Inf	13.5436
1.0000	13.5436	14.0570	13.7353
2.0000	13.7353	14.0570	14.0971
1.0000	14.0570	14.5704	14.0971
2.0000	14.0971	14.5704	14.5255
3.0000	14.5255	14.5704	15.0805
2.0000	14.5704	14.6013	15.0805
1.0000	14.6013	14.7536	15.0805
0	14.7536	Inf	15.0805
1.0000	15.0805	15.1244	15.1421
0	15.1244	Inf	15.1421
1.0000	15.1421	15.2525	15.3723
0	15.2525	Inf	15.3723
1.0000	15.3723	15.4705	15.4992
0	15.4705	Inf	15.4992
1.0000	15.4992	15.7516	15.7783
0	15.7516	Inf	15.7783
1.0000	15.7783	15.9553	15.8386
2.0000	15.8386	15.9553	16.1114
1.0000	15.9553	16.1323	16.1114
2.0000	16.1114	16.1323	16.4905
1.0000	16.1323	16.1960	16.4905
0	16.1960	Inf	16.4905
1.0000	16.4905	16.7389	16.5344
2.0000	16.5344	16.7389	16.7868
1.0000	16.7389	16.9873	16.7868
2.0000	16.7868	16.9873	16.9889
1.0000	16.9873	17.0247	16.9889
2.0000	16.9889	17.0247	17.0846
1.0000	17.0247	17.1649	17.0846
2.0000	17.0846	17.1649	17.2436
1.0000	17.1649	17.1749	17.2436
0	17.1749	Inf	17.2436
1.0000	17.2436	17.2803	17.2636
2.0000	17.2636	17.2803	17.7301
1.0000	17.2803	17.3169	17.7301
0	17.3169	Inf	17.7301
1.0000	17.7301	18.1336	17.8052
2.0000	17.8052	18.1336	17.8097
3.0000	17.8097	18.1336	17.9000
4.0000	17.9000	18.1336	18.3580

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3.0000	18.1336	18.5370	18.3580
4.0000	18.3580	18.5370	18.3830
5.0000	18.3830	18.5370	18.3933
6.0000	18.3933	18.5370	18.5409
5.0000	18.5370	18.5752	18.5409
6.0000	18.5409	18.5752	18.9971
5.0000	18.5752	18.7189	18.9971
4.0000	18.7189	18.8854	18.9971
3.0000	18.8854	19.0356	18.9971
4.0000	18.9971	19.0356	19.1828
3.0000	19.0356	19.4856	19.1828
4.0000	19.1828	19.4856	19.6079
3.0000	19.4856	19.6419	19.6079
4.0000	19.6079	19.6419	20.5651
3.0000	19.6419	19.7602	20.5651
2.0000	19.7602	20.0460	20.5651
1.0000	20.0460	20.2033	20.5651
0	20.2033	Inf	20.5651
1.0000	20.5651	21.0659	20.8326
2.0000	20.8326	21.0659	20.8563
3.0000	20.8563	21.0659	20.9735
4.0000	20.9735	21.0659	21.0834
3.0000	21.0659	21.5667	21.0834
4.0000	21.0834	21.5667	21.1610
5.0000	21.1610	21.5667	21.2062
6.0000	21.2062	21.5667	21.3800
7.0000	21.3800	21.5667	21.8759
6.0000	21.5667	21.6648	21.8759
5.0000	21.6648	21.9063	21.8759
6.0000	21.8759	21.9063	22.3401
5.0000	21.9063	21.9556	22.3401
4.0000	21.9556	22.2328	22.3401
3.0000	22.2328	22.2413	22.3401
2.0000	22.2413	22.2951	22.3401
1.0000	22.2951	22.6712	22.3401
2.0000	22.3401	22.6712	23.0646
1.0000	22.6712	22.6712	23.0646
0	22.6712	Inf	23.0646
1.0000	23.0646	23.6121	23.3055
2.0000	23.3055	23.6121	23.5312
3.0000	23.5312	23.6121	23.6597
2.0000	23.6121	24.1596	23.6597
3.0000	23.6597	24.1596	24.0583
4.0000	24.0583	24.1596	24.3315
3.0000	24.1596	24.1626	24.3315
2.0000	24.1626	24.4934	24.3315
3.0000	24.3315	24.4934	24.7708
2.0000	24.4934	24.8016	24.7708
3.0000	24.7708	24.8016	24.9813
2.0000	24.8016	25.7462	24.9813
3.0000	24.9813	25.7462	25.0183
4.0000	25.0183	25.7462	25.1861
5.0000	25.1861	25.7462	25.2097
6.0000	25.2097	25.7462	25.2166

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7.0000	25.2166	25.7462	25.3575
8.0000	25.3575	25.7462	25.9177
7.0000	25.7462	26.0992	25.9177
8.0000	25.9177	26.0992	26.0550
9.0000	26.0550	26.0992	26.0876
10.0000	26.0876	26.0992	26.3131
9.0000	26.0992	26.1183	26.3131
8.0000	26.1183	26.2430	26.3131
7.0000	26.2430	26.9051	26.3131
8.0000	26.3131	26.9051	26.4297
9.0000	26.4297	26.9051	27.0240
8.0000	26.9051	26.9247	27.0240
7.0000	26.9247	27.0137	27.0240
6.0000	27.0137	27.2454	27.0240
7.0000	27.0240	27.2454	27.4292
6.0000	27.2454	27.8620	27.4292
7.0000	27.4292	27.8620	27.8198
8.0000	27.8198	27.8620	27.9125
7.0000	27.8620	28.2098	27.9125
8.0000	27.9125	28.2098	28.0711
9.0000	28.0711	28.2098	28.2268
8.0000	28.2098	28.2803	28.2268
9.0000	28.2268	28.2803	28.2307
10.0000	28.2307	28.2803	28.3505
9.0000	28.2803	28.3956	28.3505
10.0000	28.3505	28.3956	28.3755
11.0000	28.3755	28.3956	28.5231
10.0000	28.3956	28.5231	28.5231
11.0000	28.5231	28.5231	28.5346
10.0000	28.5231	28.7962	28.5346
11.0000	28.5346	28.7962	28.6683
12.0000	28.6683	28.7962	28.7547
13.0000	28.7547	28.7962	28.8567
12.0000	28.7962	29.0015	28.8567
13.0000	28.8567	29.0015	29.5160
12.0000	29.0015	29.3884	29.5160
11.0000	29.3884	29.7116	29.5160
12.0000	29.5160	29.7116	29.6689
13.0000	29.6689	29.7116	29.8706
12.0000	29.7116	29.7472	29.8706
11.0000	29.7472	29.9580	29.8706
12.0000	29.8706	29.9580	29.9824
11.0000	29.9580	30.0220	29.9824
12.0000	29.9824	30.0220	30.4630
11.0000	30.0220	30.1268	30.4630
10.0000	30.1268	30.3364	30.4630
9.0000	30.3364	30.5071	30.4630
10.0000	30.4630	30.5071	30.6560
9.0000	30.5071	30.7521	30.6560
10.0000	30.6560	30.7521	30.7223
11.0000	30.7223	30.7521	30.9742
10.0000	30.7521	31.0200	30.9742
11.0000	30.9742	31.0200	31.1669
10.0000	31.0200	31.1051	31.1669

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9.0000	31.1051	31.1841	31.1669
10.0000	31.1669	31.1841	31.3403
9.0000	31.1841	31.2002	31.3403
8.0000	31.2002	31.2257	31.3403
7.0000	31.2257	31.6063	31.3403
8.0000	31.3403	31.6063	31.9963
7.0000	31.6063	31.6402	31.9963
6.0000	31.6402	31.8314	31.9963
5.0000	31.8314	32.7864	31.9963
6.0000	31.9963	32.7864	32.4487
7.0000	32.4487	32.7864	32.9222
6.0000	32.7864	32.8396	32.9222
5.0000	32.8396	33.2661	32.9222
6.0000	32.9222	33.2661	33.3283
5.0000	33.2661	33.3583	33.3283
6.0000	33.3283	33.3583	33.3976
5.0000	33.3583	33.6609	33.3976
6.0000	33.3976	33.6609	33.4226
7.0000	33.4226	33.6609	34.1725
6.0000	33.6609	33.8336	34.1725
5.0000	33.8336	34.0407	34.1725
4.0000	34.0407	34.1802	34.1725
5.0000	34.1725	34.1802	34.2235
4.0000	34.1802	34.3229	34.2235
5.0000	34.2235	34.3229	34.5403
4.0000	34.3229	34.8406	34.5403
5.0000	34.5403	34.8406	34.5535
6.0000	34.5535	34.8406	34.6235
7.0000	34.6235	34.8406	34.6988
8.0000	34.6988	34.8406	35.2183
7.0000	34.8406	36.3795	35.2183
8.0000	35.2183	36.3795	35.7152
9.0000	35.7152	36.3795	35.8994
10.0000	35.8994	36.3795	35.9552
11.0000	35.9552	36.3795	36.0756
12.0000	36.0756	36.3795	36.1739
13.0000	36.1739	36.3795	36.2915
14.0000	36.2915	36.3795	36.3746
15.0000	36.3746	36.3795	36.4143
14.0000	36.3795	36.6424	36.4143
15.0000	36.4143	36.6424	36.8647
14.0000	36.6424	36.7591	36.8647
13.0000	36.7591	36.8982	36.8647
14.0000	36.8647	36.8982	36.8907
15.0000	36.8907	36.8982	37.5642
14.0000	36.8982	37.3508	37.5642
13.0000	37.3508	37.6216	37.5642
14.0000	37.5642	37.6216	37.7600
13.0000	37.6216	37.7575	37.7600
12.0000	37.7575	37.8117	37.7600
13.0000	37.7600	37.8117	38.1499
12.0000	37.8117	37.9700	38.1499
11.0000	37.9700	38.0558	38.1499
10.0000	38.0558	38.5324	38.1499

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11.0000	38.1499	38.5324	38.2698
12.0000	38.2698	38.5324	38.6573
11.0000	38.5324	38.6370	38.6573
10.0000	38.6370	39.0626	38.6573
11.0000	38.6573	39.0626	39.1573
10.0000	39.0626	39.5110	39.1573
11.0000	39.1573	39.5110	39.1694
12.0000	39.1694	39.5110	40.2591
11.0000	39.5110	39.9100	40.2591
10.0000	39.9100	39.9208	40.2591
9.0000	39.9208	40.8362	40.2591
10.0000	40.2591	40.8362	40.5781
11.0000	40.5781	40.8362	40.7476
12.0000	40.7476	40.8362	40.7866
13.0000	40.7866	40.8362	40.8154
14.0000	40.8154	40.8362	41.2538
13.0000	40.8362	40.8435	41.2538
12.0000	40.8435	40.9471	41.2538
11.0000	40.9471	40.9623	41.2538
10.0000	40.9623	40.9684	41.2538
9.0000	40.9684	41.5250	41.2538
10.0000	41.2538	41.5250	41.3307
11.0000	41.3307	41.5250	42.1218
10.0000	41.5250	41.9552	42.1218
9.0000	41.9552	42.6155	42.1218
10.0000	42.1218	42.6155	42.1646
11.0000	42.1646	42.6155	42.1654
12.0000	42.1654	42.6155	43.5938
11.0000	42.6155	42.7943	43.5938
10.0000	42.7943	42.9471	43.5938
9.0000	42.9471	42.9844	43.5938
8.0000	42.9844	43.0082	43.5938
7.0000	43.0082	43.0502	43.5938
6.0000	43.0502	43.0825	43.5938
5.0000	43.0825	43.1557	43.5938
4.0000	43.1557	43.6911	43.5938
5.0000	43.5938	43.6911	44.0619
4.0000	43.6911	43.8599	44.0619
3.0000	43.8599	43.9061	44.0619
2.0000	43.9061	43.9248	44.0619
1.0000	43.9248	44.3686	44.0619
2.0000	44.0619	44.3686	44.3112
3.0000	44.3112	44.3686	44.5640
2.0000	44.3686	44.3995	44.5640
1.0000	44.3995	44.7255	44.5640
2.0000	44.5640	44.7255	44.6427
3.0000	44.6427	44.7255	44.8541
2.0000	44.7255	44.7609	44.8541
1.0000	44.7609	44.8466	44.8541
0	44.8466	Inf	44.8541
1.0000	44.8541	44.9653	45.2247
0	44.9653	Inf	45.2247
1.0000	45.2247	45.4549	45.2664
2.0000	45.2664	45.4549	45.8344

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1.0000	45.4549	45.6852	45.8344
0	45.6852	Inf	45.8344
1.0000	45.8344	46.2192	45.8838
2.0000	45.8838	46.2192	45.9455
3.0000	45.9455	46.2192	46.0570
4.0000	46.0570	46.2192	47.0159
3.0000	46.2192	46.6039	47.0159
2.0000	46.6039	46.6642	47.0159
1.0000	46.6642	46.6843	47.0159
0	46.6843	Inf	47.0159
1.0000	47.0159	47.0846	47.5501
0	47.0846	Inf	47.5501
1.0000	47.5501	47.8874	47.5983
2.0000	47.5983	47.8874	48.0052
1.0000	47.8874	48.2248	48.0052
2.0000	48.0052	48.2248	48.2481
1.0000	48.2248	48.3872	48.2481
2.0000	48.2481	48.3872	48.2497
3.0000	48.2497	48.3872	48.3822
4.0000	48.3822	48.3872	48.3971
3.0000	48.3872	48.5711	48.3971
4.0000	48.3971	48.5711	48.6144
3.0000	48.5711	48.7492	48.6144
4.0000	48.6144	48.7492	48.6922
5.0000	48.6922	48.7492	48.9065
4.0000	48.7492	48.8137	48.9065
3.0000	48.8137	49.5481	48.9065
4.0000	48.9065	49.5481	48.9659
5.0000	48.9659	49.5481	49.0770
6.0000	49.0770	49.5481	49.9800
5.0000	49.5481	50.1562	49.9800
6.0000	49.9800	50.1562	50.0665
7.0000	50.0665	50.1562	50.6464
6.0000	50.1562	50.3025	50.6464
5.0000	50.3025	50.6848	50.6464
6.0000	50.6464	50.6848	51.1664
5.0000	50.6848	50.7372	51.1664
4.0000	50.7372	50.7686	51.1664
3.0000	50.7686	50.7885	51.1664
2.0000	50.7885	51.8789	51.1664
3.0000	51.1664	51.8789	51.6361
4.0000	51.6361	51.8789	51.7981
5.0000	51.7981	51.8789	52.3997
4.0000	51.8789	52.1227	52.3997
3.0000	52.1227	52.9320	52.3997
4.0000	52.3997	52.9320	52.4073
5.0000	52.4073	52.9320	52.6755
6.0000	52.6755	52.9320	52.7912
7.0000	52.7912	52.9320	53.4988
6.0000	52.9320	52.9493	53.4988
5.0000	52.9493	53.3420	53.4988
4.0000	53.3420	54.1492	53.4988
5.0000	53.4988	54.1492	53.9979
6.0000	53.9979	54.1492	54.0002

TP3: Qualité de Service et Diemntionnement

7.0000	54.0002	54.1492	54.2241
6.0000	54.1492	54.3383	54.2241
7.0000	54.2241	54.3383	54.3090
8.0000	54.3090	54.3383	54.4520
7.0000	54.3383	54.3497	54.4520
6.0000	54.3497	54.5036	54.4520
7.0000	54.4520	54.5036	55.8447
6.0000	54.5036	54.5909	55.8447
5.0000	54.5909	54.6522	55.8447
4.0000	54.6522	54.6712	55.8447
3.0000	54.6712	55.8692	55.8447
4.0000	55.8447	55.8692	55.9144
3.0000	55.8692	55.9174	55.9144
4.0000	55.9144	55.9174	56.3039
3.0000	55.9174	55.9181	56.3039
2.0000	55.9181	55.9391	56.3039
1.0000	55.9391	56.0498	56.3039
0	56.0498	Inf	56.3039
1.0000	56.3039	56.3579	56.3748
0	56.3579	Inf	56.3748
1.0000	56.3748	56.7544	56.5736
2.0000	56.5736	56.7544	56.5948
3.0000	56.5948	56.7544	56.8944
2.0000	56.7544	57.1340	56.8944
3.0000	56.8944	57.1340	57.2490
2.0000	57.1340	57.1724	57.2490
1.0000	57.1724	57.2049	57.2490
0	57.2049	Inf	57.2490
1.0000	57.2490	57.3597	58.1574
0	57.3597	Inf	58.1574
1.0000	58.1574	58.5445	58.4145
2.0000	58.4145	58.5445	58.4758
3.0000	58.4758	58.5445	58.9832
2.0000	58.5445	58.9317	58.9832
1.0000	58.9317	59.1104	58.9832
2.0000	58.9832	59.1104	59.4249
1.0000	59.1104	60.1991	59.4249
2.0000	59.4249	60.1991	59.4714
3.0000	59.4714	60.1991	59.9868
4.0000	59.9868	60.1991	60.0688
5.0000	60.0688	60.1991	60.1661
6.0000	60.1661	60.1991	61.0521
5.0000	60.1991	60.3799	61.0521
4.0000	60.3799	60.5588	61.0521
3.0000	60.5588	60.5661	61.0521
2.0000	60.5661	61.1124	61.0521
3.0000	61.0521	61.1124	61.1702
2.0000	61.1124	61.1866	61.1702
3.0000	61.1702	61.1866	61.3533
2.0000	61.1866	61.3167	61.3533
1.0000	61.3167	61.4582	61.3533
2.0000	61.3533	61.4582	62.0306
1.0000	61.4582	61.6712	62.0306
0	61.6712	Inf	62.0306

TP3: Qualité de Service et Diemntionnement

1.0000	62.0306	62.0486	62.1508
0	62.0486	Inf	62.1508
1.0000	62.1508	62.2540	62.7742
0	62.2540	Inf	62.7742
1.0000	62.7742	63.0322	62.9707
2.0000	62.9707	63.0322	63.1663
1.0000	63.0322	63.2902	63.1663
2.0000	63.1663	63.2902	63.1772
3.0000	63.1772	63.2902	63.8135
2.0000	63.2902	63.3900	63.8135
1.0000	63.3900	63.4465	63.8135
0	63.4465	Inf	63.8135
1.0000	63.8135	64.1202	64.4165
0	64.1202	Inf	64.4165
1.0000	64.4165	64.4824	64.5968
0	64.4824	Inf	64.5968
1.0000	64.5968	64.8729	64.9889
0	64.8729	Inf	64.9889
1.0000	64.9889	65.1573	65.0690
2.0000	65.0690	65.1573	65.3219
1.0000	65.1573	65.3257	65.3219
2.0000	65.3219	65.3257	65.3312
1.0000	65.3257	65.3505	65.3312
2.0000	65.3312	65.3505	65.8641
1.0000	65.3505	65.4667	65.8641
0	65.4667	Inf	65.8641
1.0000	65.8641	66.1763	65.8664
2.0000	65.8664	66.1763	65.9579
3.0000	65.9579	66.1763	66.1224
4.0000	66.1224	66.1763	66.5551
3.0000	66.1763	66.4885	66.5551
2.0000	66.4885	66.5815	66.5551
3.0000	66.5551	66.5815	66.9999
2.0000	66.5815	67.3281	66.9999
3.0000	66.9999	67.3281	67.0321
4.0000	67.0321	67.3281	67.0780
5.0000	67.0780	67.3281	67.6400
4.0000	67.3281	68.0998	67.6400
5.0000	67.6400	68.0998	68.1975
4.0000	68.0998	68.3224	68.1975
5.0000	68.1975	68.3224	68.2112
6.0000	68.2112	68.3224	68.5694
5.0000	68.3224	68.4620	68.5694
4.0000	68.4620	68.4646	68.5694
3.0000	68.4646	68.7272	68.5694
4.0000	68.5694	68.7272	68.6764
5.0000	68.6764	68.7272	68.6835
6.0000	68.6835	68.7272	68.8082
5.0000	68.7272	69.1191	68.8082
6.0000	68.8082	69.1191	69.0673
7.0000	69.0673	69.1191	69.5395
6.0000	69.1191	69.8081	69.5395
7.0000	69.5395	69.8081	70.3165
6.0000	69.8081	70.1742	70.3165

TP3: Qualité de Service et Dimensionnement

5.0000	70.1742	70.2000	70.3165
4.0000	70.2000	70.2579	70.3165
3.0000	70.2579	70.5045	70.3165
4.0000	70.3165	70.5045	70.3908
5.0000	70.3908	70.5045	70.5158
4.0000	70.5045	70.5504	70.5158
5.0000	70.5158	70.5504	70.7852
4.0000	70.5504	70.7832	70.7852
3.0000	70.7832	71.3884	70.7852
4.0000	70.7852	71.3884	70.9432
5.0000	70.9432	71.3884	71.1472
6.0000	71.1472	71.3884	71.2624
7.0000	71.2624	71.3884	71.4378
6.0000	71.3884	71.6569	71.4378
7.0000	71.4378	71.6569	72.0513
6.0000	71.6569	71.7082	72.0513
5.0000	71.7082	71.9003	72.0513
4.0000	71.9003	72.0323	72.0513
3.0000	72.0323	72.4512	72.0513
4.0000	72.0513	72.4512	72.8296
3.0000	72.4512	72.5743	72.8296
2.0000	72.5743	72.7123	72.8296
1.0000	72.7123	72.7552	72.8296
0	72.7552	Inf	72.8296
1.0000	72.8296	73.7210	73.3305
2.0000	73.3305	73.7210	73.4039
3.0000	73.4039	73.7210	73.4639
4.0000	73.4639	73.7210	73.7864
3.0000	73.7210	74.6124	73.7864
4.0000	73.7864	74.6124	74.0445
5.0000	74.0445	74.6124	74.0939
6.0000	74.0939	74.6124	74.1392
7.0000	74.1392	74.6124	74.2465
8.0000	74.2465	74.6124	74.2572
9.0000	74.2572	74.6124	74.2726
10.0000	74.2726	74.6124	74.8471
9.0000	74.6124	75.1527	74.8471
10.0000	74.8471	75.1527	75.0398
11.0000	75.0398	75.1527	75.7530
10.0000	75.1527	75.2610	75.7530
9.0000	75.2610	75.2880	75.7530
8.0000	75.2880	75.4627	75.7530
7.0000	75.4627	75.5276	75.7530
6.0000	75.5276	76.2294	75.7530
7.0000	75.7530	76.2294	75.8659
8.0000	75.8659	76.2294	76.3956
7.0000	76.2294	76.5638	76.3956
8.0000	76.3956	76.5638	76.6468
7.0000	76.5638	76.6760	76.6468
8.0000	76.6468	76.6760	76.7590
7.0000	76.6760	76.7427	76.7590
6.0000	76.7427	76.9836	76.7590
7.0000	76.7590	76.9836	77.0428
6.0000	76.9836	77.2846	77.0428

TP3: Qualité de Service et Diemntionnement

7.0000	77.0428	77.2846	77.2493
8.0000	77.2493	77.2846	77.4639
7.0000	77.2846	77.3058	77.4639
6.0000	77.3058	77.5031	77.4639
7.0000	77.4639	77.5031	77.8634
6.0000	77.5031	77.5171	77.8634
5.0000	77.5171	77.5484	77.8634
4.0000	77.5484	78.5280	77.8634
5.0000	77.8634	78.5280	77.9335
6.0000	77.9335	78.5280	78.2153
7.0000	78.2153	78.5280	78.3416
8.0000	78.3416	78.5280	78.5499
7.0000	78.5280	78.7964	78.5499
8.0000	78.5499	78.7964	78.6848
9.0000	78.6848	78.7964	78.8185
8.0000	78.7964	79.9436	78.8185
9.0000	78.8185	79.9436	79.1003
10.0000	79.1003	79.9436	79.2863
11.0000	79.2863	79.9436	79.3795
12.0000	79.3795	79.9436	79.4108
13.0000	79.4108	79.9436	80.1738
12.0000	79.9436	80.0516	80.1738
11.0000	80.0516	80.6313	80.1738
12.0000	80.1738	80.6313	80.2446
13.0000	80.2446	80.6313	80.2478
14.0000	80.2478	80.6313	80.7943
13.0000	80.6313	80.7391	80.7943
12.0000	80.7391	80.9914	80.7943
13.0000	80.7943	80.9914	81.0519
12.0000	80.9914	81.0893	81.0519
13.0000	81.0519	81.0893	81.3759
12.0000	81.0893	81.1260	81.3759
11.0000	81.1260	81.6294	81.3759
12.0000	81.3759	81.6294	81.7960
11.0000	81.6294	81.7285	81.7960
10.0000	81.7285	81.7638	81.7960
9.0000	81.7638	81.8353	81.7960
10.0000	81.7960	81.8353	83.9994
9.0000	81.8353	82.0526	83.9994
8.0000	82.0526	82.5277	83.9994
7.0000	82.5277	82.8516	83.9994
6.0000	82.8516	82.8857	83.9994
5.0000	82.8857	83.0129	83.9994
4.0000	83.0129	83.2968	83.9994
3.0000	83.2968	83.6112	83.9994
2.0000	83.6112	83.8191	83.9994
1.0000	83.8191	83.8444	83.9994
0	83.8444	Inf	83.9994
1.0000	83.9994	84.0818	84.1220
0	84.0818	Inf	84.1220
1.0000	84.1220	84.8889	84.2677
2.0000	84.2677	84.8889	84.4944
3.0000	84.4944	84.8889	84.6943
4.0000	84.6943	84.8889	85.6913

TP3: Qualité de Service et Diemntionnement

3.0000	84.8889	85.6558	85.6913
2.0000	85.6558	86.3388	85.6913
3.0000	85.6913	86.3388	85.8563
4.0000	85.8563	86.3388	86.1203
5.0000	86.1203	86.3388	86.3863
4.0000	86.3388	86.3586	86.3863
3.0000	86.3586	86.8306	86.3863
4.0000	86.3863	86.8306	86.6619
5.0000	86.6619	86.8306	86.9490
4.0000	86.8306	87.3055	86.9490
5.0000	86.9490	87.3055	87.1384
6.0000	87.1384	87.3055	87.3401
5.0000	87.3055	87.3664	87.3401
6.0000	87.3401	87.3664	87.3718
5.0000	87.3664	87.8740	87.3718
6.0000	87.3718	87.8740	87.4192
7.0000	87.4192	87.8740	87.5300
8.0000	87.5300	87.8740	87.5342
9.0000	87.5342	87.8740	87.5396
10.0000	87.5396	87.8740	87.9042
9.0000	87.8740	87.9725	87.9042
10.0000	87.9042	87.9725	87.9877
9.0000	87.9725	88.0901	87.9877
10.0000	87.9877	88.0901	88.0305
11.0000	88.0305	88.0901	88.4663
10.0000	88.0901	88.2643	88.4663
9.0000	88.2643	88.7859	88.4663
10.0000	88.4663	88.7859	88.9604
9.0000	88.7859	90.2563	88.9604
10.0000	88.9604	90.2563	89.1373
11.0000	89.1373	90.2563	89.3883
12.0000	89.3883	90.2563	89.6960
13.0000	89.6960	90.2563	91.1800
12.0000	90.2563	90.4131	91.1800
11.0000	90.4131	90.4641	91.1800
10.0000	90.4641	90.5763	91.1800
9.0000	90.5763	90.7769	91.1800
8.0000	90.7769	91.1294	91.1800
7.0000	91.1294	91.1842	91.1800
8.0000	91.1800	91.1842	91.2221
7.0000	91.1842	91.2326	91.2221
8.0000	91.2221	91.2326	91.2299
9.0000	91.2299	91.2326	91.2754
8.0000	91.2326	91.4228	91.2754
9.0000	91.2754	91.4228	91.6536
8.0000	91.4228	92.0588	91.6536
9.0000	91.6536	92.0588	91.8910
10.0000	91.8910	92.0588	92.0917
9.0000	92.0588	92.1092	92.0917
10.0000	92.0917	92.1092	92.1011
11.0000	92.1011	92.1092	92.1715
10.0000	92.1092	92.1216	92.1715
9.0000	92.1216	92.2601	92.1715
10.0000	92.1715	92.2601	92.3563

TP3: Qualité de Service et Diemntionnement

9.0000	92.2601	92.2821	92.3563
8.0000	92.2821	92.7310	92.3563
9.0000	92.3563	92.7310	92.6763
10.0000	92.6763	92.7310	92.8297
9.0000	92.7310	93.0112	92.8297
10.0000	92.8297	93.0112	93.5334
9.0000	93.0112	93.6852	93.5334
10.0000	93.5334	93.6852	93.5476
11.0000	93.5476	93.6852	93.6027
12.0000	93.6027	93.6852	93.6926
11.0000	93.6852	94.1330	93.6926
12.0000	93.6926	94.1330	93.6930
13.0000	93.6930	94.1330	93.6964
14.0000	93.6964	94.1330	94.1955
13.0000	94.1330	94.1405	94.1955
12.0000	94.1405	94.1511	94.1955
11.0000	94.1511	94.3096	94.1955
12.0000	94.1955	94.3096	94.5021
11.0000	94.3096	94.9603	94.5021
12.0000	94.5021	94.9603	94.5496
13.0000	94.5496	94.9603	96.1428
12.0000	94.9603	94.9879	96.1428
11.0000	94.9879	95.0994	96.1428
10.0000	95.0994	95.1542	96.1428
9.0000	95.1542	95.5057	96.1428
8.0000	95.5057	96.1925	96.1428
9.0000	96.1428	96.1925	96.7417
8.0000	96.1925	96.5262	96.7417
7.0000	96.5262	96.7078	96.7417
6.0000	96.7078	96.9253	96.7417
7.0000	96.7417	96.9253	96.7733
8.0000	96.7733	96.9253	97.0012
7.0000	96.9253	97.1664	97.0012
8.0000	97.0012	97.1664	97.7993
7.0000	97.1664	97.4812	97.7993
6.0000	97.4812	97.8607	97.7993
7.0000	97.7993	97.8607	98.7287
6.0000	97.8607	98.2183	98.7287
5.0000	98.2183	98.3067	98.7287
4.0000	98.3067	99.5254	98.7287
5.0000	98.7287	99.5254	98.9645
6.0000	98.9645	99.5254	99.3305
7.0000	99.3305	99.5254	99.4428
8.0000	99.4428	99.5254	99.7425
7.0000	99.5254	99.6486	99.7425
6.0000	99.6486	100.2152	99.7425
7.0000	99.7425	100.2152	100.2168
6.0000	100.2152	100.3713	100.2168
7.0000	100.2168	100.3713	100.3236
8.0000	100.3236	100.3713	100.3671
9.0000	100.3671	100.3713	100.4384
8.0000	100.3713	100.4023	100.4384
7.0000	100.4023	100.4559	100.4384
8.0000	100.4384	100.4559	100.5284

TP3: Qualité de Service et Diemntionnement

7.0000	100.4559	100.5703	100.5284
8.0000	100.5284	100.5703	100.8274
7.0000	100.5703	100.6635	100.8274
6.0000	100.6635	100.8215	100.8274
5.0000	100.8215	100.8554	100.8274
6.0000	100.8274	100.8554	101.0096
5.0000	100.8554	101.5826	101.0096
6.0000	101.0096	101.5826	101.0361
7.0000	101.0361	101.5826	101.1576
8.0000	101.1576	101.5826	101.1621
9.0000	101.1621	101.5826	101.3031
10.0000	101.3031	101.5826	101.3488
11.0000	101.3488	101.5826	101.5482
12.0000	101.5482	101.5826	101.7078
11.0000	101.5826	101.7920	101.7078
12.0000	101.7078	101.7920	101.8275
11.0000	101.7920	102.2219	101.8275
12.0000	101.8275	102.2219	101.9926
13.0000	101.9926	102.2219	102.1860
14.0000	102.1860	102.2219	102.2468
13.0000	102.2219	102.2313	102.2468
12.0000	102.2313	102.8259	102.2468
13.0000	102.2468	102.8259	103.7082
12.0000	102.8259	102.8576	103.7082
11.0000	102.8576	103.0252	103.7082
10.0000	103.0252	103.1222	103.7082
9.0000	103.1222	103.2646	103.7082
8.0000	103.2646	103.4489	103.7082
7.0000	103.4489	103.7334	103.7082
8.0000	103.7082	103.7334	103.7321
9.0000	103.7321	103.7334	103.8327
8.0000	103.7334	103.8604	103.8327
9.0000	103.8327	103.8604	104.4410
8.0000	103.8604	103.8741	104.4410
7.0000	103.8741	104.0419	104.4410
6.0000	104.0419	104.5934	104.4410
7.0000	104.4410	104.5934	104.5391
8.0000	104.5391	104.5934	105.0429
7.0000	104.5934	104.7451	105.0429
6.0000	104.7451	104.8080	105.0429
5.0000	104.8080	105.0376	105.0429
4.0000	105.0376	105.0644	105.0429
5.0000	105.0429	105.0644	105.7787
4.0000	105.0644	105.3596	105.7787
3.0000	105.3596	105.7388	105.7787
2.0000	105.7388	106.3615	105.7787
3.0000	105.7787	106.3615	106.8609
2.0000	106.3615	106.3742	106.8609
1.0000	106.3742	106.9156	106.8609
2.0000	106.8609	106.9156	107.2639
1.0000	106.9156	108.0130	107.2639
2.0000	107.2639	108.0130	107.3804
3.0000	107.3804	108.0130	107.5540
4.0000	107.5540	108.0130	107.9235

TP3: Qualité de Service et Diemntionnement

5.0000	107.9235	108.0130	108.3554
4.0000	108.0130	109.1309	108.3554
5.0000	108.3554	109.1309	108.6182
6.0000	108.6182	109.1309	109.8957
5.0000	109.1309	109.7305	109.8957
4.0000	109.7305	109.8571	109.8957
3.0000	109.8571	110.0411	109.8957
4.0000	109.8957	110.0411	109.9733
5.0000	109.9733	110.0411	110.0194
6.0000	110.0194	110.0411	110.3715
5.0000	110.0411	110.3355	110.3715
4.0000	110.3355	110.5017	110.3715
5.0000	110.3715	110.5017	110.6544
4.0000	110.5017	110.7032	110.6544
5.0000	110.6544	110.7032	110.6591
6.0000	110.6591	110.7032	110.7822
5.0000	110.7032	110.7470	110.7822
4.0000	110.7470	111.1739	110.7822
5.0000	110.7822	111.1739	110.9255
6.0000	110.9255	111.1739	111.2184
5.0000	111.1739	111.6978	111.2184
6.0000	111.2184	111.6978	111.3757
7.0000	111.3757	111.6978	111.8262
6.0000	111.6978	112.0268	111.8262
7.0000	111.8262	112.0268	112.5862
6.0000	112.0268	112.1238	112.5862
5.0000	112.1238	112.9687	112.5862
6.0000	112.5862	112.9687	113.2596
5.0000	112.9687	113.2812	113.2596
6.0000	113.2596	113.2812	113.3034
5.0000	113.2812	113.3074	113.3034
6.0000	113.3034	113.3074	113.7709
5.0000	113.3074	113.5392	113.7709
4.0000	113.5392	113.7499	113.7709
3.0000	113.7499	113.9690	113.7709
4.0000	113.7709	113.9690	114.0078
3.0000	113.9690	114.0481	114.0078
4.0000	114.0078	114.0481	114.0320
5.0000	114.0320	114.0481	114.0452
6.0000	114.0452	114.0481	114.3244
5.0000	114.0481	114.0605	114.3244
4.0000	114.0605	114.3697	114.3244
5.0000	114.3244	114.3697	114.7351
4.0000	114.3697	114.3998	114.7351
3.0000	114.3998	114.9082	114.7351
4.0000	114.7351	114.9082	114.7612
5.0000	114.7612	114.9082	115.0007
4.0000	114.9082	115.0714	115.0007
5.0000	115.0007	115.0714	115.6696
4.0000	115.0714	115.4548	115.6696
3.0000	115.4548	115.4721	115.6696
2.0000	115.4721	115.5986	115.6696
1.0000	115.5986	115.8422	115.6696
2.0000	115.6696	115.8422	115.7309

TP3: Qualité de Service et Diemntionnement

3.0000	115.7309	115.8422	116.0198
2.0000	115.8422	115.9442	116.0198
1.0000	115.9442	116.0360	116.0198
2.0000	116.0198	116.0360	116.0309
3.0000	116.0309	116.0360	116.1204
2.0000	116.0360	116.4336	116.1204
3.0000	116.1204	116.4336	116.3348
4.0000	116.3348	116.4336	116.4551
3.0000	116.4336	116.8812	116.4551
4.0000	116.4551	116.8812	116.6225
5.0000	116.6225	116.8812	116.7456
6.0000	116.7456	116.8812	116.8468
7.0000	116.8468	116.8812	116.8678
8.0000	116.8678	116.8812	117.3621
7.0000	116.8812	116.8994	117.3621
6.0000	116.8994	117.1249	117.3621
5.0000	117.1249	117.4157	117.3621
6.0000	117.3621	117.4157	117.3926
7.0000	117.3926	117.4157	117.5799
6.0000	117.4157	117.5071	117.5799
5.0000	117.5071	117.5610	117.5799
4.0000	117.5610	117.8409	117.5799
5.0000	117.5799	117.8409	117.8285
6.0000	117.8285	117.8409	117.8572
5.0000	117.8409	117.9904	117.8572
6.0000	117.8572	117.9904	117.9067
7.0000	117.9067	117.9904	118.4874
6.0000	117.9904	118.0883	118.4874
5.0000	118.0883	118.4072	118.4874
4.0000	118.4072	118.4733	118.4874
3.0000	118.4733	118.8564	118.4874
4.0000	118.4874	118.8564	118.7055
5.0000	118.7055	118.8564	118.7227
6.0000	118.7227	118.8564	119.0751
5.0000	118.8564	119.7013	119.0751
6.0000	119.0751	119.7013	119.3442
7.0000	119.3442	119.7013	120.2963
6.0000	119.7013	119.8419	120.2963
5.0000	119.8419	120.0150	120.2963
4.0000	120.0150	120.0625	120.2963
3.0000	120.0625	120.4002	120.2963
4.0000	120.2963	120.4002	120.6649
3.0000	120.4002	121.1706	120.6649
4.0000	120.6649	121.1706	120.9571
5.0000	120.9571	121.1706	121.0667
6.0000	121.0667	121.1706	122.2094
5.0000	121.1706	121.2742	122.2094
4.0000	121.2742	121.3570	122.2094
3.0000	121.3570	121.5917	122.2094
2.0000	121.5917	122.4407	122.2094
3.0000	122.2094	122.4407	122.2972
4.0000	122.2972	122.4407	122.3188
5.0000	122.3188	122.4407	122.3230
6.0000	122.3230	122.4407	122.3274

TP3: Qualité de Ser-
vice et Diemntionnement

7.0000	122.3274	122.4407	122.3562
8.0000	122.3562	122.4407	122.3942
9.0000	122.3942	122.4407	122.4526
8.0000	122.4407	122.6661	122.4526
9.0000	122.4526	122.6661	122.6816
8.0000	122.6661	122.8133	122.6816
9.0000	122.6816	122.8133	122.7931
10.0000	122.7931	122.8133	122.8316
9.0000	122.8133	123.3289	122.8316
10.0000	122.8316	123.3289	122.8774
11.0000	122.8774	123.3289	123.5744
10.0000	123.3289	123.6520	123.5744
11.0000	123.5744	123.6520	123.9207
10.0000	123.6520	123.8947	123.9207
9.0000	123.8947	124.3642	123.9207
10.0000	123.9207	124.3642	124.2236
11.0000	124.2236	124.3642	124.2346
12.0000	124.2346	124.3642	124.4177
11.0000	124.3642	124.4793	124.4177
12.0000	124.4177	124.4793	125.5655
11.0000	124.4793	124.5550	125.5655
10.0000	124.5550	124.6805	125.5655
9.0000	124.6805	124.8182	125.5655
8.0000	124.8182	124.8717	125.5655
7.0000	124.8717	124.9775	125.5655
6.0000	124.9775	125.0100	125.5655
5.0000	125.0100	125.0357	125.5655
4.0000	125.0357	125.5062	125.5655
3.0000	125.5062	125.9181	125.5655
4.0000	125.5655	125.9181	126.3028
3.0000	125.9181	125.9767	126.3028
2.0000	125.9767	126.2122	126.3028
1.0000	126.2122	126.5132	126.3028
2.0000	126.3028	126.5132	126.8979
1.0000	126.5132	126.5905	126.8979
0	126.5905	Inf	126.8979
1.0000	126.8979	127.2411	127.0638
2.0000	127.0638	127.2411	127.7600
1.0000	127.2411	127.5844	127.7600
0	127.5844	Inf	127.7600
1.0000	127.7600	128.2708	128.4916
0	128.2708	Inf	128.4916
1.0000	128.4916	128.5304	128.5961
0	128.5304	Inf	128.5961
1.0000	128.5961	128.8858	129.3909
0	128.8858	Inf	129.3909
1.0000	129.3909	129.7011	129.4541
2.0000	129.4541	129.7011	129.6376
3.0000	129.6376	129.7011	129.6904
4.0000	129.6904	129.7011	129.8269
3.0000	129.7011	130.0113	129.8269
4.0000	129.8269	130.0113	130.1180
3.0000	130.0113	130.1670	130.1180
4.0000	130.1180	130.1670	130.1787

TP3: Qualité de Service et Diemntionnement

3.0000	130.1670	130.3889	130.1787
4.0000	130.1787	130.3889	130.3816
5.0000	130.3816	130.3889	130.6448
4.0000	130.3889	130.6562	130.6448
5.0000	130.6448	130.6562	130.7937
4.0000	130.6562	130.7528	130.7937
3.0000	130.7528	130.8598	130.7937
4.0000	130.7937	130.8598	131.0359
3.0000	130.8598	131.0376	131.0359
4.0000	131.0359	131.0376	131.7488
3.0000	131.0376	131.2224	131.7488
2.0000	131.2224	131.4447	131.7488
1.0000	131.4447	131.4525	131.7488
0	131.4525	Inf	131.7488
1.0000	131.7488	131.8186	131.8191
0	131.8186	Inf	131.8191
1.0000	131.8191	131.8245	131.8878
0	131.8245	Inf	131.8878
1.0000	131.8878	132.0651	132.1315
0	132.0651	Inf	132.1315
1.0000	132.1315	132.1380	132.9994
0	132.1380	Inf	132.9994
1.0000	132.9994	133.4772	133.5022
0	133.4772	Inf	133.5022
1.0000	133.5022	134.1451	133.7562
2.0000	133.7562	134.1451	133.9902
3.0000	133.9902	134.1451	134.5021
2.0000	134.1451	134.7880	134.5021
3.0000	134.5021	134.7880	134.5211
4.0000	134.5211	134.7880	135.9306
3.0000	134.7880	134.8441	135.9306
2.0000	134.8441	134.9518	135.9306
1.0000	134.9518	135.0488	135.9306
0	135.0488	Inf	135.9306
1.0000	135.9306	136.8349	136.2528
2.0000	136.2528	136.8349	136.8770
1.0000	136.8349	137.7391	136.8770
2.0000	136.8770	137.7391	136.9666
3.0000	136.9666	137.7391	137.0308
4.0000	137.0308	137.7391	137.1549
5.0000	137.1549	137.7391	137.2054
6.0000	137.2054	137.7391	138.0875
5.0000	137.7391	137.7956	138.0875
4.0000	137.7956	138.0213	138.0875
3.0000	138.0213	138.3682	138.0875

Ntab =

Columns 1 through 13

0 1 0 1 0 1 0 1 0 1 0 1

Columns 14 through 26

1	0	1	0	1	2	1	2	1	0	1	2
Columns 27 through 39											
2	1	0	1	2	3	4	3	4	3	2	3
Columns 40 through 52											
3	2	1	2	3	2	3	4	5	4	5	6
Columns 53 through 65											
6	5	6	5	4	3	2	3	4	5	4	3
Columns 66 through 78											
5	6	7	6	7	8	7	6	7	8	7	6
Columns 79 through 91											
4	5	4	3	4	5	4	3	4	3	2	1
Columns 92 through 104											
1	2	1	2	1	0	1	0	1	2	1	0
Columns 105 through 117											
0	1	2	1	2	3	2	1	0	1	0	1
Columns 118 through 130											
1	0	1	0	1	2	1	2	1	0	1	2
Columns 131 through 143											
2	1	2	1	2	1	0	1	2	1	0	1
Columns 144 through 156											
3	4	3	4	5	6	5	6	5	4	3	4
Columns 157 through 169											
4	3	4	3	2	1	0	1	2	3	4	3
Columns 170 through 182											
5	6	7	6	5	6	5	4	3	2	1	2
Columns 183 through 195											
0	1	2	3	2	3	4	3	2	3	2	3

Columns 196 through 208

3 4 5 6 7 8 7 8 9 10 9 8

Columns 209 through 221

8 9 8 7 6 7 6 7 8 7 8 9

Columns 222 through 234

9 10 9 10 11 10 11 10 11 12 13 12

Columns 235 through 247

12 11 12 13 12 11 12 11 12 11 10 9

Columns 248 through 260

9 10 11 10 11 10 9 10 9 8 7 8

Columns 261 through 273

6 5 6 7 6 5 6 5 6 5 6 7

Columns 274 through 286

5 4 5 4 5 4 5 6 7 8 7 8

Columns 287 through 299

10 11 12 13 14 15 14 15 14 13 14 15

Columns 300 through 312

13 14 13 12 13 12 11 10 11 12 11 10

Columns 313 through 325

10 11 12 11 10 9 10 11 12 13 14 13

Columns 326 through 338

11 10 9 10 11 10 9 10 11 12 11 10

Columns 339 through 351

8 7 6 5 4 5 4 3 2 1 2 3

Columns 352 through 364

1 2 3 2 1 0 1 0 1 2 1 0

Columns 365 through 377

2	3	4	3	2	1	0	1	0	1	2	1
Columns 378 through 390											
1	2	3	4	3	4	3	4	5	4	3	4
Columns 391 through 403											
6	5	6	7	6	5	6	5	4	3	2	3
Columns 404 through 416											
5	4	3	4	5	6	7	6	5	4	5	6
Columns 417 through 429											
6	7	8	7	6	7	6	5	4	3	4	3
Columns 430 through 442											
3	2	1	0	1	0	1	2	3	2	3	2
Columns 443 through 455											
0	1	0	1	2	3	2	1	2	1	2	3
Columns 456 through 468											
5	6	5	4	3	2	3	2	3	2	1	2
Columns 469 through 481											
0	1	0	1	0	1	2	1	2	3	2	1
Columns 482 through 494											
1	0	1	0	1	0	1	2	1	2	1	2
Columns 495 through 507											
0	1	2	3	4	3	2	3	2	3	4	5
Columns 508 through 520											
5	4	5	6	5	4	3	4	5	6	5	6
Columns 521 through 533											
6	7	6	5	4	3	4	5	4	5	4	3
Columns 534 through 546											
5	6	7	6	7	6	5	4	3	4	3	2

Columns 547 through 559

0 1 2 3 4 3 4 5 6 7 8 9

Columns 560 through 572

9 10 11 10 9 8 7 6 7 8 7 8

Columns 573 through 585

8 7 6 7 6 7 8 7 6 7 6 5

Columns 586 through 598

5 6 7 8 7 8 9 8 9 10 11 12

Columns 599 through 611

12 11 12 13 14 13 12 13 12 13 12 11

Columns 612 through 624

11 10 9 10 9 8 7 6 5 4 3 2

Columns 625 through 637

0 1 0 1 2 3 4 3 2 3 4 5

Columns 638 through 650

3 4 5 4 5 6 5 6 5 6 7 8

Columns 651 through 663

10 9 10 9 10 11 10 9 10 9 10 11

Columns 664 through 676

13 12 11 10 9 8 7 8 7 8 9 8

Columns 677 through 689

8 9 10 9 10 11 10 9 10 9 8 9

Columns 690 through 702

9 10 9 10 11 12 11 12 13 14 13 12

Columns 703 through 715

12 11 12 13 12 11 10 9 8 9 8 7

Columns 716 through 728

7	8	7	8	7	6	7	6	5	4	5	6
Columns 729 through 741											
8	7	6	7	6	7	8	9	8	7	8	7
Columns 742 through 754											
7	6	5	6	5	6	7	8	9	10	11	12
Columns 755 through 767											
12	11	12	13	14	13	12	13	12	11	10	9
Columns 768 through 780											
7	8	9	8	9	8	7	6	7	8	7	6
Columns 781 through 793											
4	5	4	3	2	3	2	1	2	1	2	3
Columns 794 through 806											
5	4	5	6	5	4	3	4	5	6	5	4
Columns 807 through 819											
4	5	6	5	4	5	6	5	6	7	6	7
Columns 820 through 832											
5	6	5	6	5	6	5	4	3	4	3	4
Columns 833 through 845											
6	5	4	5	4	3	4	5	4	5	4	3
Columns 846 through 858											
1	2	3	2	1	2	3	2	3	4	3	4
Columns 859 through 871											
6	7	8	7	6	5	6	7	6	5	4	5
Columns 872 through 884											
5	6	7	6	5	4	3	4	5	6	5	6
Columns 885 through 897											
6	5	4	3	4	3	4	5	6	5	4	3

Columns 898 through 910

3 4 5 6 7 8 9 8 9 8 9 10

Columns 911 through 923

10 11 10 11 10 9 10 11 12 11 12 11

Columns 924 through 936

9 8 7 6 5 4 3 4 3 2 1 2

Columns 937 through 949

0 1 2 1 0 1 0 1 0 1 0 1

Columns 950 through 962

3 4 3 4 3 4 3 4 5 4 5 4

Columns 963 through 975

4 3 4 3 2 1 0 1 0 1 0 1

Columns 976 through 988

1 0 1 0 1 2 3 2 3 4 3 2

Columns 989 through 1000

0 1 2 1 2 3 4 5 6 5 4 3

Ntab =

Columns 1 through 13

0 1 0 1 0 1 0 1 0 1 0 1

Columns 14 through 26

1 0 1 0 1 2 1 2 1 0 1 2

Columns 27 through 39

2 1 0 1 2 3 4 3 4 3 2 3

Columns 40 through 52

3 2 1 2 3 2 3 4 5 4 5 6

Columns 53 through 65

TP3: Qualité de Service et Diemntionnement

6	5	6	5	4	3	2	3	4	5	4	3
Columns 66 through 78											
5	6	7	6	7	8	7	6	7	8	7	6
Columns 79 through 91											
4	5	4	3	4	5	4	3	4	3	2	1
Columns 92 through 104											
1	2	1	2	1	0	1	0	1	2	1	0
Columns 105 through 117											
0	1	2	1	2	3	2	1	0	1	0	1
Columns 118 through 130											
1	0	1	0	1	2	1	2	1	0	1	2
Columns 131 through 143											
2	1	2	1	2	1	0	1	2	1	0	1
Columns 144 through 156											
3	4	3	4	5	6	5	6	5	4	3	4
Columns 157 through 169											
4	3	4	3	2	1	0	1	2	3	4	3
Columns 170 through 182											
5	6	7	6	5	6	5	4	3	2	1	2
Columns 183 through 195											
0	1	2	3	2	3	4	3	2	3	2	3
Columns 196 through 208											
3	4	5	6	7	8	7	8	9	10	9	8
Columns 209 through 221											
8	9	8	7	6	7	6	7	8	7	8	9
Columns 222 through 234											
9	10	9	10	11	10	11	10	11	12	13	12

Columns 235 through 247

12 11 12 13 12 11 12 11 12 11 10 9

Columns 248 through 260

9 10 11 10 11 10 9 10 9 8 7 8

Columns 261 through 273

6 5 6 7 6 5 6 5 6 5 6 7

Columns 274 through 286

5 4 5 4 5 4 5 6 7 8 7 8

Columns 287 through 299

10 11 12 13 14 15 14 15 14 13 14 15

Columns 300 through 312

13 14 13 12 13 12 11 10 11 12 11 10

Columns 313 through 325

10 11 12 11 10 9 10 11 12 13 14 13

Columns 326 through 338

11 10 9 10 11 10 9 10 11 12 11 10

Columns 339 through 351

8 7 6 5 4 5 4 3 2 1 2 3

Columns 352 through 364

1 2 3 2 1 0 1 0 1 2 1 0

Columns 365 through 377

2 3 4 3 2 1 0 1 0 1 2 1

Columns 378 through 390

1 2 3 4 3 4 3 4 5 4 3 4

Columns 391 through 403

6 5 6 7 6 5 6 5 4 3 2 3

Columns 404 through 416

TP3: Qualité de Service et Diemntionnement

5	4	3	4	5	6	7	6	5	4	5	6
<i>Columns 417 through 429</i>											
6	7	8	7	6	7	6	5	4	3	4	3
<i>Columns 430 through 442</i>											
3	2	1	0	1	0	1	2	3	2	3	2
<i>Columns 443 through 455</i>											
0	1	0	1	2	3	2	1	2	1	2	3
<i>Columns 456 through 468</i>											
5	6	5	4	3	2	3	2	3	2	1	2
<i>Columns 469 through 481</i>											
0	1	0	1	0	1	2	1	2	3	2	1
<i>Columns 482 through 494</i>											
1	0	1	0	1	0	1	2	1	2	1	2
<i>Columns 495 through 507</i>											
0	1	2	3	4	3	2	3	2	3	4	5
<i>Columns 508 through 520</i>											
5	4	5	6	5	4	3	4	5	6	5	6
<i>Columns 521 through 533</i>											
6	7	6	5	4	3	4	5	4	5	4	3
<i>Columns 534 through 546</i>											
5	6	7	6	7	6	5	4	3	4	3	2
<i>Columns 547 through 559</i>											
0	1	2	3	4	3	4	5	6	7	8	9
<i>Columns 560 through 572</i>											
9	10	11	10	9	8	7	6	7	8	7	8
<i>Columns 573 through 585</i>											
8	7	6	7	6	7	8	7	6	7	6	5

Columns 586 through 598

5 6 7 8 7 8 9 8 9 10 11 12

Columns 599 through 611

12 11 12 13 14 13 12 13 12 13 12 11

Columns 612 through 624

11 10 9 10 9 8 7 6 5 4 3 2

Columns 625 through 637

0 1 0 1 2 3 4 3 2 3 4 5

Columns 638 through 650

3 4 5 4 5 6 5 6 5 6 7 8

Columns 651 through 663

10 9 10 9 10 11 10 9 10 9 10 11

Columns 664 through 676

13 12 11 10 9 8 7 8 7 8 9 8

Columns 677 through 689

8 9 10 9 10 11 10 9 10 9 8 9

Columns 690 through 702

9 10 9 10 11 12 11 12 13 14 13 12

Columns 703 through 715

12 11 12 13 12 11 10 9 8 9 8 7

Columns 716 through 728

7 8 7 8 7 6 7 6 5 4 5 6

Columns 729 through 741

8 7 6 7 6 7 8 9 8 7 8 7

Columns 742 through 754

7 6 5 6 5 6 7 8 9 10 11 12

Columns 755 through 767

TP3: Qualité de Service et Diemntionnement

12	11	12	13	14	13	12	13	12	11	10	9
Columns 768 through 780											
7	8	9	8	9	8	7	6	7	8	7	6
Columns 781 through 793											
4	5	4	3	2	3	2	1	2	1	2	3
Columns 794 through 806											
5	4	5	6	5	4	3	4	5	6	5	4
Columns 807 through 819											
4	5	6	5	4	5	6	5	6	7	6	7
Columns 820 through 832											
5	6	5	6	5	6	5	4	3	4	3	4
Columns 833 through 845											
6	5	4	5	4	3	4	5	4	5	4	3
Columns 846 through 858											
1	2	3	2	1	2	3	2	3	4	3	4
Columns 859 through 871											
6	7	8	7	6	5	6	7	6	5	4	5
Columns 872 through 884											
5	6	7	6	5	4	3	4	5	6	5	6
Columns 885 through 897											
6	5	4	3	4	3	4	5	6	5	4	3
Columns 898 through 910											
3	4	5	6	7	8	9	8	9	8	9	10
Columns 911 through 923											
10	11	10	11	10	9	10	11	12	11	12	11
Columns 924 through 936											
9	8	7	6	5	4	3	4	3	2	1	2

Columns 937 through 949

0 1 2 1 0 1 0 1 0 1 0 1

Columns 950 through 962

3 4 3 4 3 4 3 4 5 4 5 4

Columns 963 through 975

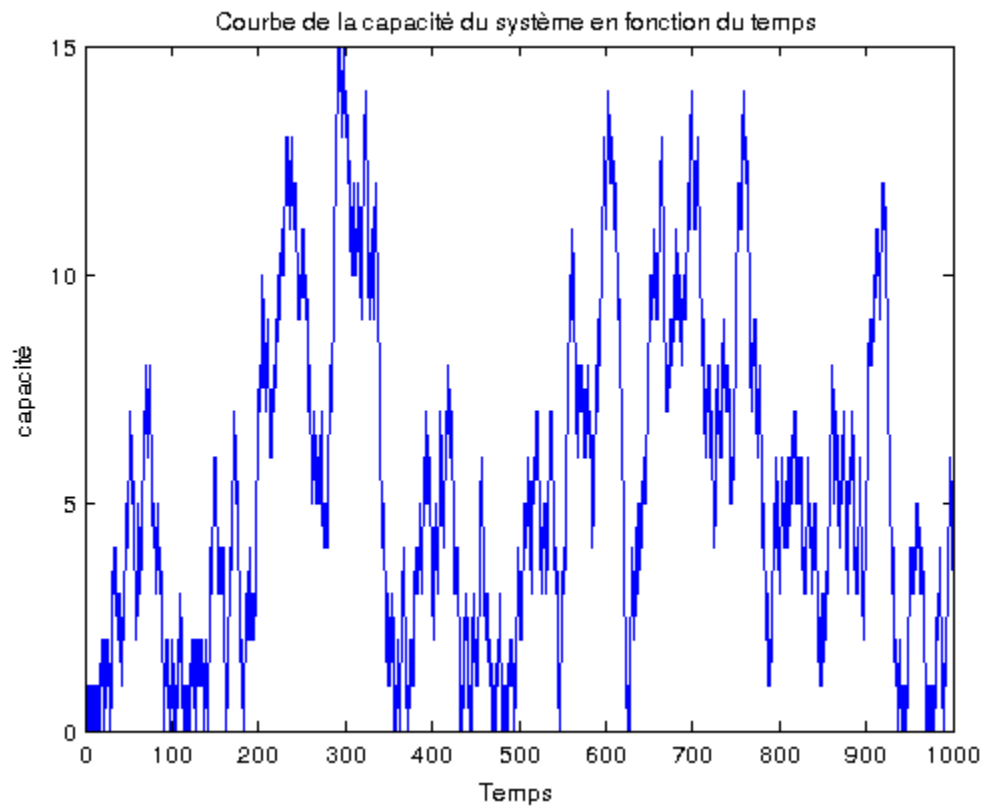
4 3 4 3 2 1 0 1 0 1 0 1

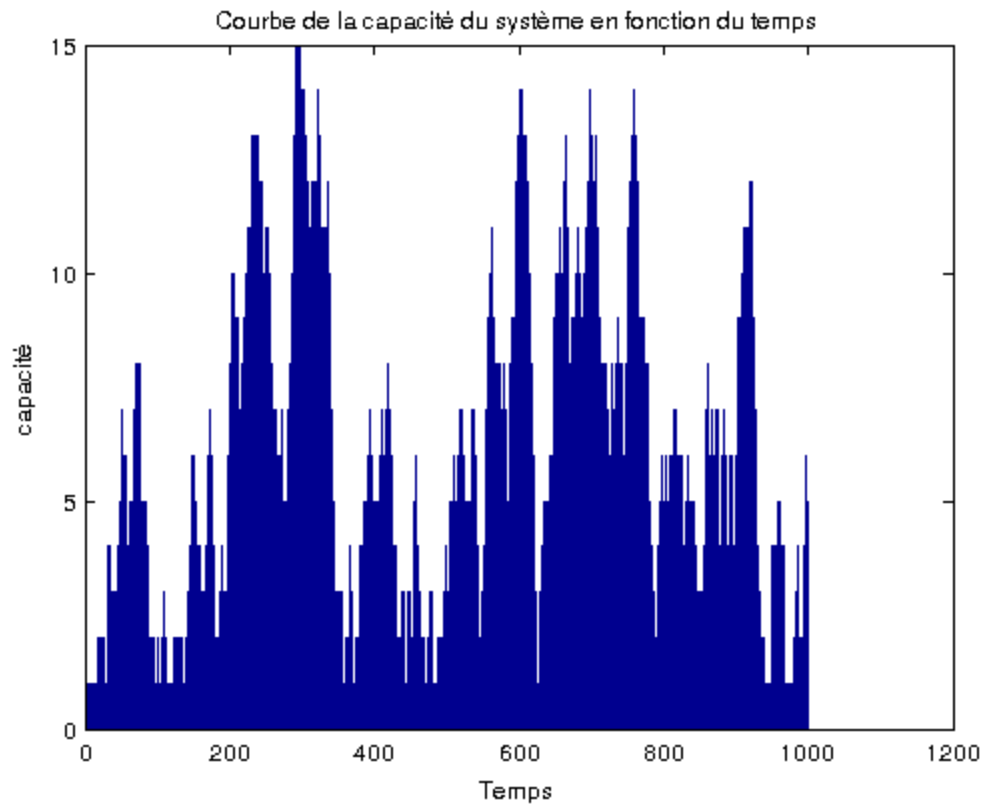
Columns 976 through 988

1 0 1 0 1 2 3 2 3 4 3 2

Columns 989 through 1000

0 1 2 1 2 3 4 5 6 5 4 3





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