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Decay.f

Introduction

The program decay.f is a program that analyzes the radioactive decay of two types of N nuclei, A and B. Nuclei of type A decays into type B while type B further decays. I compared Euler's method and analytical solutions for calculating the radioactive decay.

Method

Type A started with 100 moles, while type B started with 0 moles at t = 0. Time constants of $\tau_A =$ 1 second and τ_B = 2 seconds were used. I used a do while loop to calculate Euler's method and the analytical values from t = 0 seconds to t = 10 seconds with a time step of .001 seconds. I used Euler's method to numerically solve the system given by the differential equations:

$$\frac{DN_A}{dt} = -\frac{N_A}{\tau_A}$$

$$\frac{DN_B}{dt} = \frac{N_A}{\tau_A} - \frac{N_B}{\tau_B}$$

I used a time step of .001 for Euler's method. Euler's method was then compared to the analytical values given by the solutions to the above differential equations. The equations for computing analytical values were:

$$N_A(t) = Ne^{-t/t_A}$$

$$N_B(t)=N\{t_B/(t_A-t_B)\}[e^{-t/t_A}-e^{-t/t_B}] .$$

After calculating N_A and N_B, the percent error of the Euler method was calculated for each time step. An average percent error was then calculated.

Results

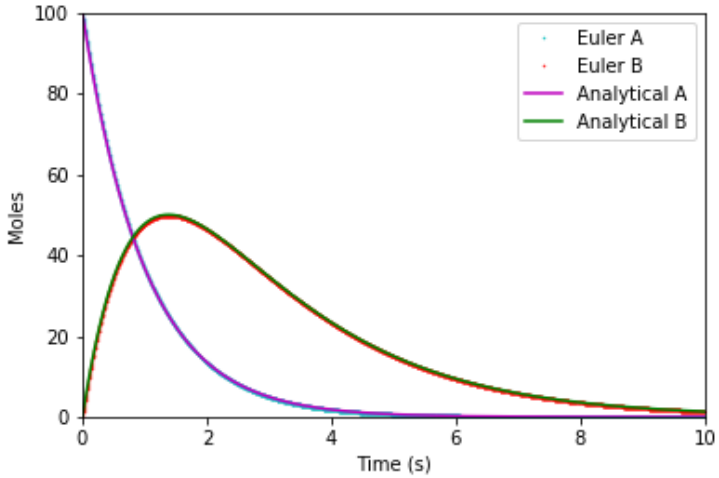

Figure 1. Graph comparing Euler's method to the analytical solution showing the moles at time t of each type of nuclei.

As shown in figure 1, type A starts off with 100 moles and then exponentially decays to 0 moles. Type B starts off with 0 moles but gains moles from type A's radioactive decay. Type B peaks at 50 moles at 1.385 seconds and then tapers off to 0. The percent error of Euler's method is near 0% around t =0s, but the percent error increases linearly with time. At 10 seconds, the percent error of Euler's method reaches 2.46% and 1.10 % for type A and type B, respectively. The average percent error is 1.24% and .69% for type A and type B, respectively.

Discussion

A time step of .001 seconds was chosen as it kept the average percent error for both types of nuclei around 1%. Euler's method performs well against the analytical values as the average percent error was only around 1%. The accuracy of Euler's method decrease as time passes where the percent error is close to 0% near the beginning, but then increases to 2.46% percent error and 1.10% percent error for type A and type B, respectively. For larger time constants like $\tau_A = 1000$ seconds and τ_B = 2000 seconds, I would use 5 second time step as that would produce similar results and percent errors because I would be keeping the ratio between time constants and time steps the same. Also, using a time step .005 for a radioactive decay process with larger time constants like $\tau_A = 1000$ seconds and τ_B = 2000 seconds would take a long time and use a lot of storage space.

```
!       This program uses the Euler Method to calculate radioactive
decay
        program decay
        implicit none

!       Initialize variables. A and B are the amount of Nuclei of A
and B calculated using Euler's Method.
!       C and D are the amount of Nuclei of A and B, respectively,
calculated using the analytic soultions.
!       EA and EB are the percent errors between the two methods of
type A and type B respectively.
!       SEA and SEB are used to calculate AAE and ABE, respectively.
!       AAE and ABE are the average errors for Euler's Method for type
A and type B, respectively
!       TA and TB are the time constants of type A and type B,
respectively.
!       t represents time and TS is the time step used for Euler's
Method. TMAX is how far in time we will
!       calculate values for.

        real A, B, C, D, EA, EB, SEA, SEB, AAE, ABE, TA, TB, t, TS,
     +  TMAX, N
        N = 100
        A = 100
        B = 0
        C = N
        D = 0
        TA = 1
        TB = 2
        TS = .005
        TMAX = 10
        EA = 0
        EB = 0
        SEA = 0
        SEB = 0
        AAE = 0
        ABE = 0
        t = 0


!       Open an output file 'decay.txt' to store output

        open(1, file='decay.txt')

!       Label columns
        write(1,100) 't','Euler A','Euler B','Analytic A',
     +  'Analytic B', 'AError(%)', 'BError(%)'
100     format(T1, A1, T10, A7, T20, A7, T30, A10, T45,
     +  A10, T60, A9, T70, A9)
```

```
!       The do while loop performs calculations at time t and then
increases t by the time step TS every loop
!       and keeps going until time is greater than TMAX.

        do 10 while(t .LE. TMAX)

!               Write calculations to the output file
                write(1,200) t, A, B, C, D, EA, EB
200             format(T1, F5.3, T10, F8.3, T20, F8.3, T30,
     +          F8.3, T45, F8.3, T60, F5.2, T70, F5.2)

!               Time step
                t = t + TS

!               Euler Calculations for type A and type B
        A = A+((-A/TA)*TS)
                B = B+((A/TA)-(B/TB))*TS

!               Anayltical calculatios of type A and type B
                C = N*exp(-t/(TA))
                D = N*(TB/(TA-TB))*(exp(-t/(TA))-exp(-t/(TB)))

!               Percent error for type A and type B
                EA = ((C-A)/C)*100
                EB = ((D-B)/D)*100

!               Sums up the percent error to calculate average error
later on
                SEA = SEA + EA
                SEB = SEB + EB


10      enddo

!       Calculations average error for type A and type B
        AAE = SEA/(TMAX/TS)
        ABE = SEB/(TMAX/TS)

!       Writes average errors to output file
        write(1,300)'#', 'Average Error of A = ', AAE
300     format(T1, A1, T3, A20, T24, F5.2)
        write(1,400)'#', 'Average Error of B = ', ABE
400     format(T1, A1, T3, A21, T24, F5.2)

        close(1)
        Stop
        end program decay
```

```
# t        Euler A   Euler B   Analytic A     Analytic B     AError(%)
BError(%)
0.000     100.000     0.000   100.000          0.000        0.00
0.00
0.005      99.500     0.498    99.501          0.498        0.00
0.13
0.010      99.003     0.991    99.005          0.993        0.00
0.13
0.015      98.507     1.481    98.511          1.483        0.00
0.13
0.020      98.015     1.968    98.020          1.970        0.01
0.13
0.025      97.525     2.450    97.531          2.454        0.01
0.13
0.030      97.037     2.929    97.045          2.933        0.01
0.13
0.035      96.552     3.405    96.561          3.409        0.01
0.13
0.040      96.069     3.877    96.079          3.882        0.01
0.13
0.045      95.589     4.345    95.600          4.351        0.01
0.13
0.050      95.111     4.810    95.123          4.816        0.01
0.13
0.055      94.635     5.271    94.649          5.278        0.01
0.13
0.060      94.162     5.728    94.176          5.736        0.02
0.13
0.065      93.691     6.183    93.707          6.191        0.02
0.14
0.070      93.223     6.633    93.239          6.642        0.02
0.14
0.075      92.757     7.080    92.774          7.090        0.02
0.14
0.080      92.293     7.524    92.312          7.535        0.02
0.14
0.085      91.832     7.965    91.851          7.976        0.02
0.14
0.090      91.372     8.402    91.393          8.413        0.02
0.14
0.095      90.916     8.835    90.937          8.848        0.02
0.14
0.100      90.461     9.265    90.484          9.278        0.03
0.14
0.105      90.009     9.692    90.032          9.706        0.03
0.14
0.110      89.559    10.116    89.583         10.130        0.03
0.14
0.115      89.111    10.536    89.137         10.551        0.03
0.14
```

0.120	88.665	10.953	88.692	10.969	0.03
0.14					
0.125	88.222	11.367	88.250	11.383	0.03
0.14					
0.130	87.781	11.777	87.810	11.794	0.03
0.15					
0.135	87.342	12.184	87.372	12.202	0.03
0.15					
0.140	86.905	12.589	86.936	12.607	0.04
0.15					
0.145	86.471	12.989	86.502	13.009	0.04
0.15					
0.150	86.038	13.387	86.071	13.407	0.04
0.15					
0.155	85.608	13.782	85.642	13.802	0.04
0.15					
0.160	85.180	14.173	85.214	14.194	0.04
0.15					
0.165	84.754	14.562	84.789	14.584	0.04
0.15					
0.170	84.331	14.947	84.366	14.969	0.04
0.15					
0.175	83.909	15.329	83.946	15.352	0.04
0.15					
0.180	83.489	15.708	83.527	15.732	0.05
0.15					
0.185	83.072	16.084	83.110	16.109	0.05
0.15					
0.190	82.657	16.457	82.696	16.483	0.05
0.15					
0.195	82.243	16.827	82.283	16.854	0.05
0.16					
0.200	81.832	17.194	81.873	17.221	0.05
0.16					
0.205	81.423	17.559	81.465	17.586	0.05
0.16					
0.210	81.016	17.920	81.058	17.948	0.05
0.16					
0.215	80.611	18.278	80.654	18.307	0.05
0.16					
0.220	80.208	18.633	80.252	18.663	0.06
0.16					
0.225	79.807	18.986	79.852	19.016	0.06
0.16					
0.230	79.408	19.335	79.453	19.367	0.06
0.16					
0.235	79.011	19.682	79.057	19.714	0.06
0.16					
0.240	78.615	20.026	78.663	20.059	0.06
0.16					

0.245	78.222	20.367	78.270	20.400	0.06
0.16					
0.250	77.831	20.705	77.880	20.739	0.06
0.16					
0.255	77.442	21.041	77.492	21.075	0.06
0.16					
0.260	77.055	21.373	77.105	21.409	0.07
0.17					
0.265	76.670	21.703	76.721	21.739	0.07
0.17					
0.270	76.286	22.030	76.338	22.067	0.07
0.17					
0.275	75.905	22.355	75.957	22.392	0.07
0.17					
0.280	75.525	22.677	75.578	22.715	0.07
0.17					
0.285	75.148	22.996	75.201	23.035	0.07
0.17					
0.290	74.772	23.312	74.826	23.352	0.07
0.17					
0.295	74.398	23.626	74.453	23.666	0.07
0.17					
0.300	74.026	23.937	74.082	23.978	0.08
0.17					
0.305	73.656	24.245	73.712	24.287	0.08
0.17					
0.310	73.288	24.551	73.345	24.594	0.08
0.17					
0.315	72.921	24.854	72.979	24.898	0.08
0.17					
0.320	72.557	25.155	72.615	25.199	0.08
0.17					
0.325	72.194	25.453	72.253	25.498	0.08
0.18					
0.330	71.833	25.749	71.892	25.794	0.08
0.18					
0.335	71.474	26.042	71.534	26.088	0.08
0.18					
0.340	71.116	26.332	71.177	26.379	0.09
0.18					
0.345	70.761	26.620	70.822	26.668	0.09
0.18					
0.350	70.407	26.905	70.469	26.954	0.09
0.18					
0.355	70.055	27.188	70.117	27.237	0.09
0.18					
0.360	69.705	27.469	69.768	27.519	0.09
0.18					
0.365	69.356	27.747	69.420	27.798	0.09
0.18					

0.370	69.009	28.023	69.073	28.074	0.09
0.18					
0.375	68.664	28.296	68.729	28.348	0.09
0.18					
0.380	68.321	28.567	68.386	28.620	0.10
0.18					
0.385	67.979	28.835	68.045	28.889	0.10
0.18					
0.390	67.639	29.102	67.706	29.156	0.10
0.19					
0.395	67.301	29.365	67.368	29.420	0.10
0.19					
0.400	66.965	29.627	67.032	29.682	0.10
0.19					
0.405	66.630	29.886	66.698	29.942	0.10
0.19					
0.410	66.297	30.143	66.365	30.199	0.10
0.19					
0.415	65.965	30.397	66.034	30.455	0.10
0.19					
0.420	65.635	30.649	65.705	30.707	0.11
0.19					
0.425	65.307	30.899	65.377	30.958	0.11
0.19					
0.430	64.981	31.147	65.051	31.206	0.11
0.19					
0.435	64.656	31.392	64.726	31.453	0.11
0.19					
0.440	64.333	31.635	64.404	31.696	0.11
0.19					
0.445	64.011	31.876	64.082	31.938	0.11
0.19					
0.450	63.691	32.115	63.763	32.178	0.11
0.19					
0.455	63.372	32.352	63.445	32.415	0.11
0.19					
0.460	63.056	32.586	63.128	32.650	0.12
0.20					
0.465	62.740	32.818	62.814	32.883	0.12
0.20					
0.470	62.427	33.048	62.500	33.114	0.12
0.20					
0.475	62.114	33.276	62.189	33.342	0.12
0.20					
0.480	61.804	33.502	61.878	33.569	0.12
0.20					
0.485	61.495	33.726	61.570	33.793	0.12
0.20					
0.490	61.187	33.948	61.263	34.016	0.12
0.20					

0.495	60.881	34.167	60.957	34.236	0.12
0.20					
0.500	60.577	34.385	60.653	34.454	0.13
0.20					
0.505	60.274	34.600	60.351	34.670	0.13
0.20					
0.510	59.973	34.813	60.050	34.884	0.13
0.20					
0.515	59.673	35.025	59.750	35.096	0.13
0.20					
0.520	59.375	35.234	59.452	35.306	0.13
0.20					
0.525	59.078	35.441	59.156	35.514	0.13
0.21					
0.530	58.782	35.647	58.861	35.720	0.13
0.21					
0.535	58.488	35.850	58.567	35.924	0.13
0.21					
0.540	58.196	36.051	58.275	36.126	0.14
0.21					
0.545	57.905	36.251	57.984	36.326	0.14
0.21					
0.550	57.615	36.448	57.695	36.524	0.14
0.21					
0.555	57.327	36.644	57.407	36.721	0.14
0.21					
0.560	57.041	36.837	57.121	36.915	0.14
0.21					
0.565	56.756	37.029	56.836	37.107	0.14
0.21					
0.570	56.472	37.219	56.553	37.298	0.14
0.21					
0.575	56.189	37.407	56.271	37.486	0.14
0.21					
0.580	55.908	37.593	55.990	37.673	0.15
0.21					
0.585	55.629	37.777	55.711	37.858	0.15
0.21					
0.590	55.351	37.959	55.433	38.041	0.15
0.21					
0.595	55.074	38.140	55.156	38.222	0.15
0.22					
0.600	54.799	38.318	54.881	38.401	0.15
0.22					
0.605	54.525	38.495	54.607	38.579	0.15
0.22					
0.610	54.252	38.670	54.335	38.754	0.15
0.22					
0.615	53.981	38.843	54.064	38.928	0.15
0.22					

0.620	53.711	39.015	53.794	39.100	0.16
0.22					
0.625	53.442	39.184	53.526	39.271	0.16
0.22					
0.630	53.175	39.352	53.259	39.439	0.16
0.22					
0.635	52.909	39.518	52.994	39.606	0.16
0.22					
0.640	52.645	39.683	52.729	39.771	0.16
0.22					
0.645	52.381	39.846	52.466	39.935	0.16
0.22					
0.650	52.120	40.007	52.205	40.096	0.16
0.22					
0.655	51.859	40.166	51.944	40.256	0.16
0.22					
0.660	51.600	40.323	51.685	40.414	0.17
0.23					
0.665	51.342	40.479	51.427	40.571	0.17
0.23					
0.670	51.085	40.634	51.171	40.726	0.17
0.23					
0.675	50.829	40.786	50.916	40.879	0.17
0.23					
0.680	50.575	40.937	50.662	41.031	0.17
0.23					
0.685	50.322	41.086	50.409	41.181	0.17
0.23					
0.690	50.071	41.234	50.158	41.329	0.17
0.23					
0.695	49.820	41.380	49.907	41.475	0.17
0.23					
0.700	49.571	41.524	49.659	41.621	0.18
0.23					
0.705	49.324	41.667	49.411	41.764	0.18
0.23					
0.710	49.077	41.808	49.164	41.906	0.18
0.23					
0.715	48.832	41.948	48.919	42.046	0.18
0.23					
0.720	48.587	42.086	48.675	42.185	0.18
0.23					
0.725	48.344	42.223	48.432	42.322	0.18
0.23					
0.730	48.103	42.358	48.191	42.458	0.18
0.24					
0.735	47.862	42.491	47.951	42.592	0.18
0.24					
0.740	47.623	42.623	47.711	42.724	0.19
0.24					

0.745	47.385	42.753	47.473	42.855	0.19
0.24					
0.750	47.148	42.882	47.237	42.985	0.19
0.24					
0.755	46.912	43.009	47.001	43.113	0.19
0.24					
0.760	46.678	43.135	46.767	43.239	0.19
0.24					
0.765	46.444	43.260	46.533	43.364	0.19
0.24					
0.770	46.212	43.383	46.301	43.487	0.19
0.24					
0.775	45.981	43.504	46.070	43.610	0.19
0.24					
0.780	45.751	43.624	45.841	43.730	0.20
0.24					
0.785	45.522	43.743	45.612	43.849	0.20
0.24					
0.790	45.295	43.860	45.385	43.967	0.20
0.24					
0.795	45.068	43.975	45.158	44.083	0.20
0.24					
0.800	44.843	44.090	44.933	44.198	0.20
0.25					
0.805	44.619	44.203	44.709	44.312	0.20
0.25					
0.810	44.396	44.314	44.486	44.424	0.20
0.25					
0.815	44.174	44.424	44.264	44.534	0.20
0.25					
0.820	43.953	44.533	44.043	44.644	0.21
0.25					
0.825	43.733	44.640	43.824	44.752	0.21
0.25					
0.830	43.514	44.746	43.605	44.858	0.21
0.25					
0.835	43.297	44.851	43.387	44.963	0.21
0.25					
0.840	43.080	44.954	43.171	45.067	0.21
0.25					
0.845	42.865	45.056	42.956	45.170	0.21
0.25					
0.850	42.650	45.157	42.742	45.271	0.21
0.25					
0.855	42.437	45.256	42.528	45.371	0.21
0.25					
0.860	42.225	45.354	42.316	45.469	0.22
0.25					
0.865	42.014	45.451	42.105	45.567	0.22
0.25					

0.870	41.804	45.546	41.895	45.663	0.22 0.26
0.875	41.595	45.640	41.686	45.757	0.22 0.26
0.880	41.387	45.733	41.478	45.851	0.22 0.26
0.885	41.180	45.824	41.271	45.943	0.22 0.26
0.890	40.974	45.915	41.066	46.034	0.22 0.26
0.895	40.769	46.004	40.861	46.123	0.22 0.26
0.900	40.565	46.092	40.657	46.212	0.23 0.26
0.905	40.362	46.178	40.454	46.299	0.23 0.26
0.910	40.161	46.264	40.252	46.385	0.23 0.26
0.915	39.960	46.348	40.052	46.469	0.23 0.26
0.920	39.760	46.431	39.852	46.553	0.23 0.26
0.925	39.561	46.512	39.653	46.635	0.23 0.26
0.930	39.363	46.593	39.455	46.716	0.23 0.26
0.935	39.167	46.672	39.259	46.796	0.23 0.26
0.940	38.971	46.750	39.063	46.875	0.24 0.27
0.945	38.776	46.827	38.868	46.952	0.24 0.27
0.950	38.582	46.903	38.674	47.029	0.24 0.27
0.955	38.389	46.978	38.481	47.104	0.24 0.27
0.960	38.197	47.051	38.289	47.178	0.24 0.27
0.965	38.006	47.124	38.098	47.251	0.24 0.27
0.970	37.816	47.195	37.908	47.323	0.24 0.27
0.975	37.627	47.265	37.719	47.393	0.24 0.27
0.980	37.439	47.334	37.531	47.463	0.25 0.27
0.985	37.252	47.402	37.344	47.531	0.25 0.27
0.990	37.066	47.469	37.158	47.599	0.25 0.27

0.995	36.880	47.535	36.972	47.665	0.25
0.27					
1.000	36.696	47.599	36.788	47.730	0.25
0.27					
1.005	36.512	47.663	36.604	47.794	0.25
0.27					
1.010	36.330	47.726	36.422	47.857	0.25
0.28					
1.015	36.148	47.787	36.240	47.919	0.25
0.28					
1.020	35.967	47.847	36.060	47.980	0.26
0.28					
1.025	35.788	47.907	35.880	48.040	0.26
0.28					
1.030	35.609	47.965	35.701	48.099	0.26
0.28					
1.035	35.431	48.022	35.523	48.156	0.26
0.28					
1.040	35.253	48.078	35.345	48.213	0.26
0.28					
1.045	35.077	48.134	35.169	48.269	0.26
0.28					
1.050	34.902	48.188	34.994	48.324	0.26
0.28					
1.055	34.727	48.241	34.819	48.377	0.26
0.28					
1.060	34.554	48.293	34.646	48.430	0.27
0.28					
1.065	34.381	48.344	34.473	48.481	0.27
0.28					
1.070	34.209	48.394	34.301	48.532	0.27
0.28					
1.075	34.038	48.444	34.130	48.582	0.27
0.28					
1.080	33.868	48.492	33.960	48.631	0.27
0.29					
1.085	33.698	48.539	33.790	48.678	0.27
0.29					
1.090	33.530	48.585	33.622	48.725	0.27
0.29					
1.095	33.362	48.631	33.454	48.771	0.27
0.29					
1.100	33.195	48.675	33.287	48.816	0.28
0.29					
1.105	33.029	48.719	33.121	48.860	0.28
0.29					
1.110	32.864	48.761	32.956	48.903	0.28
0.29					
1.115	32.700	48.803	32.792	48.945	0.28
0.29					

1.120	32.536	48.843	32.628	48.986	0.28
0.29					
1.125	32.374	48.883	32.465	49.026	0.28
0.29					
1.130	32.212	48.922	32.303	49.065	0.28
0.29					
1.135	32.051	48.960	32.142	49.104	0.28
0.29					
1.140	31.891	48.997	31.982	49.141	0.29
0.29					
1.145	31.731	49.033	31.822	49.178	0.29
0.29					
1.150	31.572	49.068	31.664	49.214	0.29
0.29					
1.155	31.415	49.103	31.506	49.248	0.29
0.30					
1.160	31.258	49.136	31.349	49.282	0.29
0.30					
1.165	31.101	49.169	31.192	49.316	0.29
0.30					
1.170	30.946	49.201	31.037	49.348	0.29
0.30					
1.175	30.791	49.232	30.882	49.379	0.29
0.30					
1.180	30.637	49.262	30.728	49.410	0.30
0.30					
1.185	30.484	49.291	30.575	49.439	0.30
0.30					
1.190	30.331	49.320	30.422	49.468	0.30
0.30					
1.195	30.180	49.347	30.270	49.496	0.30
0.30					
1.200	30.029	49.374	30.119	49.523	0.30
0.30					
1.205	29.879	49.400	29.969	49.550	0.30
0.30					
1.210	29.729	49.425	29.820	49.575	0.30
0.30					
1.215	29.581	49.449	29.671	49.600	0.30
0.30					
1.220	29.433	49.473	29.523	49.624	0.31
0.30					
1.225	29.286	49.496	29.376	49.647	0.31
0.31					
1.230	29.139	49.518	29.229	49.670	0.31
0.31					
1.235	28.994	49.539	29.084	49.691	0.31
0.31					
1.240	28.849	49.559	28.938	49.712	0.31
0.31					

1.245	28.704	49.579	28.794	49.732	0.31
0.31					
1.250	28.561	49.598	28.651	49.751	0.31
0.31					
1.255	28.418	49.616	28.508	49.770	0.31
0.31					
1.260	28.276	49.633	28.365	49.788	0.32
0.31					
1.265	28.135	49.650	28.224	49.805	0.32
0.31					
1.270	27.994	49.666	28.083	49.821	0.32
0.31					
1.275	27.854	49.681	27.943	49.836	0.32
0.31					
1.280	27.715	49.695	27.804	49.851	0.32
0.31					
1.285	27.576	49.709	27.665	49.865	0.32
0.31					
1.290	27.438	49.722	27.527	49.878	0.32
0.31					
1.295	27.301	49.734	27.390	49.891	0.32
0.31					
1.300	27.164	49.745	27.253	49.903	0.33
0.32					
1.305	27.029	49.756	27.117	49.914	0.33
0.32					
1.310	26.893	49.766	26.982	49.924	0.33
0.32					
1.315	26.759	49.776	26.847	49.934	0.33
0.32					
1.320	26.625	49.784	26.714	49.943	0.33
0.32					
1.325	26.492	49.792	26.580	49.952	0.33
0.32					
1.330	26.360	49.800	26.448	49.959	0.33
0.32					
1.335	26.228	49.806	26.316	49.966	0.33
0.32					
1.340	26.097	49.812	26.185	49.973	0.34
0.32					
1.345	25.966	49.817	26.054	49.978	0.34
0.32					
1.350	25.836	49.822	25.924	49.983	0.34
0.32					
1.355	25.707	49.826	25.795	49.988	0.34
0.32					
1.360	25.579	49.829	25.666	49.991	0.34
0.32					
1.365	25.451	49.832	25.538	49.994	0.34
0.32					

1.370	25.324	49.834	25.411	49.997	0.34
0.33					
1.375	25.197	49.836	25.284	49.998	0.34
0.33					
1.380	25.071	49.836	25.158	50.000	0.35
0.33					
1.385	24.946	49.836	25.032	50.000	0.35
0.33					
1.390	24.821	49.836	24.908	50.000	0.35
0.33					
1.395	24.697	49.835	24.783	49.999	0.35
0.33					
1.400	24.573	49.833	24.660	49.998	0.35
0.33					
1.405	24.450	49.831	24.537	49.996	0.35
0.33					
1.410	24.328	49.828	24.414	49.993	0.35
0.33					
1.415	24.206	49.824	24.293	49.990	0.35
0.33					
1.420	24.085	49.820	24.171	49.986	0.36
0.33					
1.425	23.965	49.815	24.051	49.982	0.36
0.33					
1.430	23.845	49.810	23.931	49.977	0.36
0.33					
1.435	23.726	49.804	23.812	49.971	0.36
0.33					
1.440	23.607	49.798	23.693	49.965	0.36
0.33					
1.445	23.489	49.791	23.575	49.958	0.36
0.34					
1.450	23.372	49.783	23.457	49.951	0.36
0.34					
1.455	23.255	49.775	23.340	49.943	0.36
0.34					
1.460	23.139	49.766	23.224	49.935	0.37
0.34					
1.465	23.023	49.757	23.108	49.926	0.37
0.34					
1.470	22.908	49.747	22.993	49.916	0.37
0.34					
1.475	22.793	49.737	22.878	49.906	0.37
0.34					
1.480	22.679	49.726	22.764	49.895	0.37
0.34					
1.485	22.566	49.714	22.650	49.884	0.37
0.34					
1.490	22.453	49.702	22.537	49.872	0.37
0.34					

1.495	22.341	49.690	22.425	49.860	0.37
0.34					
1.500	22.229	49.677	22.313	49.847	0.38
0.34					
1.505	22.118	49.663	22.202	49.834	0.38
0.34					
1.510	22.007	49.649	22.091	49.820	0.38
0.34					
1.515	21.897	49.634	21.981	49.806	0.38
0.34					
1.520	21.788	49.619	21.871	49.791	0.38
0.35					
1.525	21.679	49.603	21.762	49.776	0.38
0.35					
1.530	21.571	49.587	21.654	49.760	0.38
0.35					
1.535	21.463	49.571	21.546	49.743	0.38
0.35					
1.540	21.355	49.553	21.438	49.726	0.39
0.35					
1.545	21.249	49.536	21.331	49.709	0.39
0.35					
1.550	21.142	49.518	21.225	49.691	0.39
0.35					
1.555	21.037	49.499	21.119	49.673	0.39
0.35					
1.560	20.932	49.480	21.014	49.654	0.39
0.35					
1.565	20.827	49.460	20.909	49.635	0.39
0.35					
1.570	20.723	49.440	20.805	49.615	0.39
0.35					
1.575	20.619	49.420	20.701	49.595	0.39
0.35					
1.580	20.516	49.399	20.598	49.574	0.40
0.35					
1.585	20.413	49.377	20.495	49.553	0.40
0.35					
1.590	20.311	49.356	20.393	49.531	0.40
0.35					
1.595	20.210	49.333	20.291	49.509	0.40
0.36					
1.600	20.109	49.310	20.190	49.486	0.40
0.36					
1.605	20.008	49.287	20.089	49.464	0.40
0.36					
1.610	19.908	49.264	19.989	49.440	0.40
0.36					
1.615	19.809	49.239	19.889	49.416	0.40
0.36					

1.620	19.710	49.215	19.790	49.392	0.41
0.36					
1.625	19.611	49.190	19.691	49.367	0.41
0.36					
1.630	19.513	49.164	19.593	49.342	0.41
0.36					
1.635	19.415	49.139	19.495	49.316	0.41
0.36					
1.640	19.318	49.112	19.398	49.290	0.41
0.36					
1.645	19.222	49.086	19.301	49.264	0.41
0.36					
1.650	19.126	49.059	19.205	49.237	0.41
0.36					
1.655	19.030	49.031	19.109	49.210	0.41
0.36					
1.660	18.935	49.003	19.014	49.182	0.42
0.36					
1.665	18.840	48.975	18.919	49.154	0.42
0.36					
1.670	18.746	48.946	18.825	49.125	0.42
0.36					
1.675	18.652	48.917	18.731	49.097	0.42
0.37					
1.680	18.559	48.888	18.637	49.067	0.42
0.37					
1.685	18.466	48.858	18.544	49.038	0.42
0.37					
1.690	18.374	48.827	18.452	49.008	0.42
0.37					
1.695	18.282	48.797	18.360	48.977	0.42
0.37					
1.700	18.191	48.766	18.268	48.946	0.43
0.37					
1.705	18.100	48.734	18.177	48.915	0.43
0.37					
1.710	18.009	48.703	18.087	48.883	0.43
0.37					
1.715	17.919	48.670	17.996	48.852	0.43
0.37					
1.720	17.830	48.638	17.907	48.819	0.43
0.37					
1.725	17.740	48.605	17.817	48.786	0.43
0.37					
1.730	17.652	48.572	17.728	48.753	0.43
0.37					
1.735	17.563	48.538	17.640	48.720	0.43
0.37					
1.740	17.476	48.504	17.552	48.686	0.44
0.37					

1.745	17.388	48.470	17.465	48.652	0.44
0.37					
1.750	17.301	48.435	17.377	48.618	0.44
0.38					
1.755	17.215	48.400	17.291	48.583	0.44
0.38					
1.760	17.129	48.365	17.205	48.548	0.44
0.38					
1.765	17.043	48.329	17.119	48.512	0.44
0.38					
1.770	16.958	48.293	17.033	48.476	0.44
0.38					
1.775	16.873	48.257	16.948	48.440	0.44
0.38					
1.780	16.789	48.220	16.864	48.404	0.45
0.38					
1.785	16.705	48.183	16.780	48.367	0.45
0.38					
1.790	16.621	48.146	16.696	48.329	0.45
0.38					
1.795	16.538	48.108	16.613	48.292	0.45
0.38					
1.800	16.455	48.070	16.530	48.254	0.45
0.38					
1.805	16.373	48.032	16.447	48.216	0.45
0.38					
1.810	16.291	47.993	16.365	48.178	0.45
0.38					
1.815	16.210	47.954	16.284	48.139	0.45
0.38					
1.820	16.129	47.915	16.203	48.100	0.46
0.38					
1.825	16.048	47.875	16.122	48.060	0.46
0.38					
1.830	15.968	47.835	16.041	48.021	0.46
0.39					
1.835	15.888	47.795	15.961	47.981	0.46
0.39					
1.840	15.809	47.755	15.882	47.940	0.46
0.39					
1.845	15.730	47.714	15.803	47.900	0.46
0.39					
1.850	15.651	47.673	15.724	47.859	0.46
0.39					
1.855	15.573	47.632	15.645	47.818	0.46
0.39					
1.860	15.495	47.590	15.567	47.776	0.47
0.39					
1.865	15.417	47.548	15.490	47.734	0.47
0.39					

1.870	15.340	47.506	15.412	47.692	0.47
0.39					
1.875	15.264	47.464	15.336	47.650	0.47
0.39					
1.880	15.187	47.421	15.259	47.608	0.47
0.39					
1.885	15.111	47.378	15.183	47.565	0.47
0.39					
1.890	15.036	47.335	15.107	47.522	0.47
0.39					
1.895	14.961	47.291	15.032	47.478	0.47
0.39					
1.900	14.886	47.247	14.957	47.434	0.48
0.39					
1.905	14.811	47.203	14.882	47.391	0.48
0.40					
1.910	14.737	47.159	14.808	47.346	0.48
0.40					
1.915	14.664	47.114	14.734	47.302	0.48
0.40					
1.920	14.590	47.070	14.661	47.257	0.48
0.40					
1.925	14.517	47.024	14.588	47.212	0.48
0.40					
1.930	14.445	46.979	14.515	47.167	0.48
0.40					
1.935	14.372	46.934	14.442	47.122	0.48
0.40					
1.940	14.301	46.888	14.370	47.076	0.49
0.40					
1.945	14.229	46.842	14.299	47.030	0.49
0.40					
1.950	14.158	46.795	14.227	46.984	0.49
0.40					
1.955	14.087	46.749	14.156	46.937	0.49
0.40					
1.960	14.017	46.702	14.086	46.891	0.49
0.40					
1.965	13.947	46.655	14.016	46.844	0.49
0.40					
1.970	13.877	46.608	13.946	46.796	0.49
0.40					
1.975	13.808	46.560	13.876	46.749	0.49
0.40					
1.980	13.739	46.513	13.807	46.702	0.50
0.40					
1.985	13.670	46.465	13.738	46.654	0.50
0.41					
1.990	13.601	46.416	13.670	46.606	0.50
0.41					

1.995	13.533	46.368	13.601	46.557	0.50
0.41					
2.000	13.466	46.319	13.534	46.509	0.50
0.41					
2.005	13.398	46.271	13.466	46.460	0.50
0.41					
2.010	13.331	46.222	13.399	46.411	0.50
0.41					
2.015	13.265	46.172	13.332	46.362	0.50
0.41					
2.020	13.199	46.123	13.266	46.313	0.51
0.41					
2.025	13.133	46.073	13.199	46.263	0.51
0.41					
2.030	13.067	46.023	13.134	46.213	0.51
0.41					
2.035	13.002	45.973	13.068	46.163	0.51
0.41					
2.040	12.937	45.923	13.003	46.113	0.51
0.41					
2.045	12.872	45.873	12.938	46.063	0.51
0.41					
2.050	12.807	45.822	12.873	46.012	0.51
0.41					
2.055	12.743	45.771	12.809	45.962	0.51
0.41					
2.060	12.680	45.720	12.745	45.911	0.52
0.41					
2.065	12.616	45.669	12.682	45.859	0.52
0.42					
2.070	12.553	45.618	12.619	45.808	0.52
0.42					
2.075	12.490	45.566	12.556	45.757	0.52
0.42					
2.080	12.428	45.514	12.493	45.705	0.52
0.42					
2.085	12.366	45.462	12.431	45.653	0.52
0.42					
2.090	12.304	45.410	12.369	45.601	0.52
0.42					
2.095	12.243	45.358	12.307	45.549	0.52
0.42					
2.100	12.181	45.305	12.246	45.496	0.53
0.42					
2.105	12.120	45.253	12.185	45.444	0.53
0.42					
2.110	12.060	45.200	12.124	45.391	0.53
0.42					
2.115	11.999	45.147	12.063	45.338	0.53
0.42					

2.120	11.940	45.094	12.003	45.285	0.53	0.42
2.125	11.880	45.040	11.943	45.232	0.53	0.42
2.130	11.820	44.987	11.884	45.178	0.53	0.42
2.135	11.761	44.933	11.824	45.124	0.53	0.42
2.140	11.702	44.879	11.765	45.071	0.54	0.42
2.145	11.644	44.825	11.707	45.017	0.54	0.43
2.150	11.586	44.771	11.648	44.963	0.54	0.43
2.155	11.528	44.717	11.590	44.908	0.54	0.43
2.160	11.470	44.663	11.532	44.854	0.54	0.43
2.165	11.413	44.608	11.475	44.800	0.54	0.43
2.170	11.356	44.553	11.418	44.745	0.54	0.43
2.175	11.299	44.498	11.361	44.690	0.54	0.43
2.180	11.243	44.443	11.304	44.635	0.55	0.43
2.185	11.186	44.388	11.248	44.580	0.55	0.43
2.190	11.130	44.333	11.192	44.525	0.55	0.43
2.195	11.075	44.277	11.136	44.469	0.55	0.43
2.200	11.019	44.222	11.080	44.414	0.55	0.43
2.205	10.964	44.166	11.025	44.358	0.55	0.43
2.210	10.909	44.110	10.970	44.302	0.55	0.43
2.215	10.855	44.054	10.915	44.246	0.55	0.43
2.220	10.801	43.998	10.861	44.190	0.55	0.43
2.225	10.747	43.942	10.807	44.134	0.56	0.44
2.230	10.693	43.885	10.753	44.077	0.56	0.44
2.235	10.639	43.829	10.699	44.021	0.56	0.44
2.240	10.586	43.772	10.646	43.964	0.56	0.44

2.245	10.533	43.715	10.593	43.907	0.56	0.44
2.250	10.481	43.659	10.540	43.851	0.56	0.44
2.255	10.428	43.602	10.487	43.794	0.56	0.44
2.260	10.376	43.544	10.435	43.737	0.56	0.44
2.265	10.324	43.487	10.383	43.679	0.57	0.44
2.270	10.273	43.430	10.331	43.622	0.57	0.44
2.275	10.221	43.372	10.280	43.564	0.57	0.44
2.280	10.170	43.315	10.228	43.507	0.57	0.44
2.285	10.119	43.257	10.177	43.449	0.57	0.44
2.290	10.069	43.199	10.127	43.391	0.57	0.44
2.295	10.018	43.141	10.076	43.334	0.57	0.44
2.300	9.968	43.083	10.026	43.276	0.57	0.44
2.305	9.918	43.025	9.976	43.217	0.58	0.44
2.310	9.869	42.967	9.926	43.159	0.58	0.45
2.315	9.819	42.909	9.877	43.101	0.58	0.45
2.320	9.770	42.850	9.827	43.042	0.58	0.45
2.325	9.721	42.792	9.778	42.984	0.58	0.45
2.330	9.673	42.733	9.730	42.925	0.58	0.45
2.335	9.625	42.674	9.681	42.867	0.58	0.45
2.340	9.576	42.616	9.633	42.808	0.58	0.45
2.345	9.529	42.557	9.585	42.749	0.59	0.45
2.350	9.481	42.498	9.537	42.690	0.59	0.45
2.355	9.433	42.439	9.489	42.631	0.59	0.45
2.360	9.386	42.379	9.442	42.572	0.59	0.45
2.365	9.339	42.320	9.395	42.512	0.59	0.45

2.370	9.293	42.261	9.348	42.453	0.59
0.45					
2.375	9.246	42.201	9.301	42.394	0.59
0.45					
2.380	9.200	42.142	9.255	42.334	0.59
0.45					
2.385	9.154	42.082	9.209	42.274	0.60
0.45					
2.390	9.108	42.023	9.163	42.215	0.60
0.45					
2.395	9.063	41.963	9.117	42.155	0.60
0.46					
2.400	9.017	41.903	9.072	42.095	0.60
0.46					
2.405	8.972	41.843	9.026	42.035	0.60
0.46					
2.410	8.927	41.783	8.981	41.975	0.60
0.46					
2.415	8.883	41.723	8.937	41.915	0.60
0.46					
2.420	8.838	41.663	8.892	41.855	0.60
0.46					
2.425	8.794	41.603	8.848	41.795	0.61
0.46					
2.430	8.750	41.543	8.804	41.735	0.61
0.46					
2.435	8.706	41.482	8.760	41.674	0.61
0.46					
2.440	8.663	41.422	8.716	41.614	0.61
0.46					
2.445	8.620	41.361	8.673	41.553	0.61
0.46					
2.450	8.576	41.301	8.629	41.493	0.61
0.46					
2.455	8.534	41.240	8.586	41.432	0.61
0.46					
2.460	8.491	41.180	8.543	41.371	0.61
0.46					
2.465	8.448	41.119	8.501	41.311	0.62
0.46					
2.470	8.406	41.058	8.458	41.250	0.62
0.46					
2.475	8.364	40.997	8.416	41.189	0.62
0.47					
2.480	8.322	40.937	8.374	41.128	0.62
0.47					
2.485	8.281	40.876	8.332	41.067	0.62
0.47					
2.490	8.239	40.815	8.291	41.006	0.62
0.47					

2.495	8.198	40.754	8.250	40.945	0.62
0.47					
2.500	8.157	40.692	8.208	40.884	0.62
0.47					
2.505	8.116	40.631	8.167	40.823	0.63
0.47					
2.510	8.076	40.570	8.127	40.761	0.63
0.47					
2.515	8.035	40.509	8.086	40.700	0.63
0.47					
2.520	7.995	40.448	8.046	40.639	0.63
0.47					
2.525	7.955	40.386	8.006	40.577	0.63
0.47					
2.530	7.916	40.325	7.966	40.516	0.63
0.47					
2.535	7.876	40.263	7.926	40.454	0.63
0.47					
2.540	7.837	40.202	7.887	40.393	0.63
0.47					
2.545	7.797	40.140	7.847	40.331	0.64
0.47					
2.550	7.758	40.079	7.808	40.270	0.64
0.47					
2.555	7.720	40.017	7.769	40.208	0.64
0.47					
2.560	7.681	39.956	7.730	40.146	0.64
0.48					
2.565	7.643	39.894	7.692	40.085	0.64
0.48					
2.570	7.604	39.832	7.653	40.023	0.64
0.48					
2.575	7.566	39.771	7.615	39.961	0.64
0.48					
2.580	7.529	39.709	7.577	39.899	0.64
0.48					
2.585	7.491	39.647	7.540	39.837	0.65
0.48					
2.590	7.453	39.585	7.502	39.775	0.65
0.48					
2.595	7.416	39.523	7.464	39.713	0.65
0.48					
2.600	7.379	39.461	7.427	39.651	0.65
0.48					
2.605	7.342	39.399	7.390	39.589	0.65
0.48					
2.610	7.305	39.337	7.353	39.527	0.65
0.48					
2.615	7.269	39.275	7.317	39.465	0.65
0.48					

2.620	7.233	39.213	7.280	39.403	0.65
0.48					
2.625	7.196	39.151	7.244	39.341	0.66
0.48					
2.630	7.160	39.089	7.208	39.279	0.66
0.48					
2.635	7.125	39.027	7.172	39.217	0.66
0.48					
2.640	7.089	38.965	7.136	39.155	0.66
0.48					
2.645	7.054	38.903	7.100	39.092	0.66
0.49					
2.650	7.018	38.841	7.065	39.030	0.66
0.49					
2.655	6.983	38.778	7.030	38.968	0.66
0.49					
2.660	6.948	38.716	6.995	38.906	0.66
0.49					
2.665	6.914	38.654	6.960	38.843	0.66
0.49					
2.670	6.879	38.592	6.925	38.781	0.67
0.49					
2.675	6.845	38.530	6.891	38.719	0.67
0.49					
2.680	6.810	38.467	6.856	38.656	0.67
0.49					
2.685	6.776	38.405	6.822	38.594	0.67
0.49					
2.690	6.742	38.343	6.788	38.532	0.67
0.49					
2.695	6.709	38.280	6.754	38.469	0.67
0.49					
2.700	6.675	38.218	6.720	38.407	0.67
0.49					
2.705	6.642	38.156	6.687	38.344	0.67
0.49					
2.710	6.609	38.093	6.654	38.282	0.68
0.49					
2.715	6.576	38.031	6.620	38.219	0.68
0.49					
2.720	6.543	37.969	6.587	38.157	0.68
0.49					
2.725	6.510	37.906	6.555	38.095	0.68
0.49					
2.730	6.477	37.844	6.522	38.032	0.68
0.49					
2.735	6.445	37.782	6.489	37.970	0.68
0.50					
2.740	6.413	37.719	6.457	37.907	0.68
0.50					

2.745	6.381	37.657	6.425	37.845	0.68
0.50					
2.750	6.349	37.594	6.393	37.782	0.69
0.50					
2.755	6.317	37.532	6.361	37.720	0.69
0.50					
2.760	6.286	37.470	6.329	37.657	0.69
0.50					
2.765	6.254	37.407	6.298	37.595	0.69
0.50					
2.770	6.223	37.345	6.266	37.532	0.69
0.50					
2.775	6.192	37.282	6.235	37.470	0.69
0.50					
2.780	6.161	37.220	6.204	37.407	0.69
0.50					
2.785	6.130	37.158	6.173	37.345	0.69
0.50					
2.790	6.099	37.095	6.142	37.282	0.70
0.50					
2.795	6.069	37.033	6.111	37.220	0.70
0.50					
2.800	6.038	36.970	6.081	37.157	0.70
0.50					
2.805	6.008	36.908	6.051	37.095	0.70
0.50					
2.810	5.978	36.846	6.020	37.032	0.70
0.50					
2.815	5.948	36.783	5.990	36.970	0.70
0.50					
2.820	5.919	36.721	5.960	36.907	0.70
0.51					
2.825	5.889	36.658	5.931	36.845	0.70
0.51					
2.830	5.860	36.596	5.901	36.782	0.71
0.51					
2.835	5.830	36.534	5.872	36.720	0.71
0.51					
2.840	5.801	36.471	5.842	36.657	0.71
0.51					
2.845	5.772	36.409	5.813	36.595	0.71
0.51					
2.850	5.743	36.347	5.784	36.533	0.71
0.51					
2.855	5.715	36.285	5.755	36.470	0.71
0.51					
2.860	5.686	36.222	5.727	36.408	0.71
0.51					
2.865	5.658	36.160	5.698	36.345	0.71
0.51					

2.870	5.629	36.098	5.670	36.283	0.72
0.51					
2.875	5.601	36.036	5.642	36.221	0.72
0.51					
2.880	5.573	35.973	5.613	36.158	0.72
0.51					
2.885	5.545	35.911	5.585	36.096	0.72
0.51					
2.890	5.517	35.849	5.558	36.034	0.72
0.51					
2.895	5.490	35.787	5.530	35.971	0.72
0.51					
2.900	5.462	35.725	5.502	35.909	0.72
0.51					
2.905	5.435	35.662	5.475	35.847	0.72
0.51					
2.910	5.408	35.600	5.447	35.785	0.73
0.52					
2.915	5.381	35.538	5.420	35.722	0.73
0.52					
2.920	5.354	35.476	5.393	35.660	0.73
0.52					
2.925	5.327	35.414	5.366	35.598	0.73
0.52					
2.930	5.301	35.352	5.340	35.536	0.73
0.52					
2.935	5.274	35.290	5.313	35.474	0.73
0.52					
2.940	5.248	35.228	5.286	35.412	0.73
0.52					
2.945	5.221	35.166	5.260	35.350	0.73
0.52					
2.950	5.195	35.104	5.234	35.288	0.74
0.52					
2.955	5.169	35.042	5.208	35.226	0.74
0.52					
2.960	5.144	34.980	5.182	35.164	0.74
0.52					
2.965	5.118	34.918	5.156	35.102	0.74
0.52					
2.970	5.092	34.857	5.130	35.040	0.74
0.52					
2.975	5.067	34.795	5.105	34.978	0.74
0.52					
2.980	5.041	34.733	5.079	34.916	0.74
0.52					
2.985	5.016	34.671	5.054	34.854	0.74
0.52					
2.990	4.991	34.610	5.029	34.792	0.75
0.52					

2.995	4.966	34.548	5.004	34.730	0.75
0.52					
3.000	4.941	34.486	4.979	34.668	0.75
0.53					
3.005	4.917	34.425	4.954	34.607	0.75
0.53					
3.010	4.892	34.363	4.929	34.545	0.75
0.53					
3.015	4.868	34.301	4.904	34.483	0.75
0.53					
3.020	4.843	34.240	4.880	34.421	0.75
0.53					
3.025	4.819	34.178	4.856	34.360	0.75
0.53					
3.030	4.795	34.117	4.831	34.298	0.75
0.53					
3.035	4.771	34.055	4.807	34.237	0.76
0.53					
3.040	4.747	33.994	4.783	34.175	0.76
0.53					
3.045	4.723	33.933	4.760	34.114	0.76
0.53					
3.050	4.700	33.871	4.736	34.052	0.76
0.53					
3.055	4.676	33.810	4.712	33.991	0.76
0.53					
3.060	4.653	33.749	4.689	33.929	0.76
0.53					
3.065	4.630	33.688	4.665	33.868	0.76
0.53					
3.070	4.607	33.626	4.642	33.807	0.76
0.53					
3.075	4.583	33.565	4.619	33.745	0.77
0.53					
3.080	4.561	33.504	4.596	33.684	0.77
0.53					
3.085	4.538	33.443	4.573	33.623	0.77
0.53					
3.090	4.515	33.382	4.550	33.562	0.77
0.54					
3.095	4.492	33.321	4.527	33.501	0.77
0.54					
3.100	4.470	33.260	4.505	33.439	0.77
0.54					
3.105	4.448	33.199	4.482	33.378	0.77
0.54					
3.110	4.425	33.138	4.460	33.317	0.77
0.54					
3.115	4.403	33.077	4.438	33.256	0.78
0.54					

3.120	4.381	33.017	4.416	33.195	0.78
0.54					
3.125	4.359	32.956	4.394	33.135	0.78
0.54					
3.130	4.338	32.895	4.372	33.074	0.78
0.54					
3.135	4.316	32.835	4.350	33.013	0.78
0.54					
3.140	4.294	32.774	4.328	32.952	0.78
0.54					
3.145	4.273	32.713	4.307	32.891	0.78
0.54					
3.150	4.251	32.653	4.285	32.831	0.78
0.54					
3.155	4.230	32.592	4.264	32.770	0.79
0.54					
3.160	4.209	32.532	4.242	32.710	0.79
0.54					
3.165	4.188	32.472	4.221	32.649	0.79
0.54					
3.170	4.167	32.411	4.200	32.589	0.79
0.54					
3.175	4.146	32.351	4.179	32.528	0.79
0.54					
3.180	4.126	32.291	4.158	32.468	0.79
0.55					
3.185	4.105	32.230	4.138	32.407	0.79
0.55					
3.190	4.084	32.170	4.117	32.347	0.79
0.55					
3.195	4.064	32.110	4.097	32.287	0.80
0.55					
3.200	4.044	32.050	4.076	32.227	0.80
0.55					
3.205	4.023	31.990	4.056	32.166	0.80
0.55					
3.210	4.003	31.930	4.036	32.106	0.80
0.55					
3.215	3.983	31.870	4.015	32.046	0.80
0.55					
3.220	3.963	31.810	3.995	31.986	0.80
0.55					
3.225	3.944	31.751	3.975	31.926	0.80
0.55					
3.230	3.924	31.691	3.956	31.866	0.80
0.55					
3.235	3.904	31.631	3.936	31.806	0.81
0.55					
3.240	3.885	31.572	3.916	31.747	0.81
0.55					

3.245	3.865	31.512	3.897	31.687	0.81
0.55					
3.250	3.846	31.452	3.877	31.627	0.81
0.55					
3.255	3.827	31.393	3.858	31.568	0.81
0.55					
3.260	3.808	31.333	3.839	31.508	0.81
0.55					
3.265	3.789	31.274	3.820	31.448	0.81
0.55					
3.270	3.770	31.215	3.801	31.389	0.81
0.55					
3.275	3.751	31.155	3.782	31.329	0.82
0.56					
3.280	3.732	31.096	3.763	31.270	0.82
0.56					
3.285	3.713	31.037	3.744	31.211	0.82
0.56					
3.290	3.695	30.978	3.725	31.151	0.82
0.56					
3.295	3.676	30.919	3.707	31.092	0.82
0.56					
3.300	3.658	30.860	3.688	31.033	0.82
0.56					
3.305	3.640	30.801	3.670	30.974	0.82
0.56					
3.310	3.621	30.742	3.652	30.915	0.82
0.56					
3.315	3.603	30.683	3.633	30.856	0.83
0.56					
3.320	3.585	30.624	3.615	30.797	0.83
0.56					
3.325	3.567	30.566	3.597	30.738	0.83
0.56					
3.330	3.550	30.507	3.579	30.679	0.83
0.56					
3.335	3.532	30.448	3.561	30.620	0.83
0.56					
3.340	3.514	30.390	3.544	30.562	0.83
0.56					
3.345	3.497	30.331	3.526	30.503	0.83
0.56					
3.350	3.479	30.273	3.508	30.444	0.83
0.56					
3.355	3.462	30.214	3.491	30.386	0.84
0.56					
3.360	3.444	30.156	3.473	30.327	0.84
0.56					
3.365	3.427	30.098	3.456	30.269	0.84
0.57					

3.370	3.410	30.040	3.439	30.211	0.84
0.57					
3.375	3.393	29.982	3.422	30.152	0.84
0.57					
3.380	3.376	29.924	3.405	30.094	0.84
0.57					
3.385	3.359	29.866	3.388	30.036	0.84
0.57					
3.390	3.342	29.808	3.371	29.978	0.84
0.57					
3.395	3.326	29.750	3.354	29.920	0.84
0.57					
3.400	3.309	29.692	3.337	29.862	0.85
0.57					
3.405	3.292	29.634	3.321	29.804	0.85
0.57					
3.410	3.276	29.576	3.304	29.746	0.85
0.57					
3.415	3.260	29.519	3.288	29.688	0.85
0.57					
3.420	3.243	29.461	3.271	29.630	0.85
0.57					
3.425	3.227	29.404	3.255	29.573	0.85
0.57					
3.430	3.211	29.346	3.239	29.515	0.85
0.57					
3.435	3.195	29.289	3.222	29.457	0.85
0.57					
3.440	3.179	29.231	3.206	29.400	0.86
0.57					
3.445	3.163	29.174	3.190	29.342	0.86
0.57					
3.450	3.147	29.117	3.174	29.285	0.86
0.57					
3.455	3.131	29.060	3.159	29.228	0.86
0.57					
3.460	3.116	29.003	3.143	29.171	0.86
0.58					
3.465	3.100	28.946	3.127	29.113	0.86
0.58					
3.470	3.085	28.889	3.112	29.056	0.86
0.58					
3.475	3.069	28.832	3.096	28.999	0.86
0.58					
3.480	3.054	28.775	3.081	28.942	0.87
0.58					
3.485	3.039	28.718	3.065	28.885	0.87
0.58					
3.490	3.024	28.662	3.050	28.828	0.87
0.58					

3.495	3.008	28.605	3.035	28.772	0.87
0.58					
3.500	2.993	28.549	3.020	28.715	0.87
0.58					
3.505	2.978	28.492	3.005	28.658	0.87
0.58					
3.510	2.963	28.436	2.990	28.602	0.87
0.58					
3.515	2.949	28.379	2.975	28.545	0.87
0.58					
3.520	2.934	28.323	2.960	28.489	0.88
0.58					
3.525	2.919	28.267	2.945	28.432	0.88
0.58					
3.530	2.905	28.211	2.930	28.376	0.88
0.58					
3.535	2.890	28.155	2.916	28.320	0.88
0.58					
3.540	2.876	28.099	2.901	28.264	0.88
0.58					
3.545	2.861	28.043	2.887	28.207	0.88
0.58					
3.550	2.847	27.987	2.872	28.151	0.88
0.58					
3.555	2.833	27.931	2.858	28.095	0.88
0.59					
3.560	2.819	27.875	2.844	28.039	0.89
0.59					
3.565	2.805	27.820	2.830	27.984	0.89
0.59					
3.570	2.790	27.764	2.815	27.928	0.89
0.59					
3.575	2.777	27.708	2.801	27.872	0.89
0.59					
3.580	2.763	27.653	2.787	27.817	0.89
0.59					
3.585	2.749	27.598	2.774	27.761	0.89
0.59					
3.590	2.735	27.542	2.760	27.705	0.89
0.59					
3.595	2.721	27.487	2.746	27.650	0.89
0.59					
3.600	2.708	27.432	2.732	27.595	0.90
0.59					
3.605	2.694	27.377	2.719	27.539	0.90
0.59					
3.610	2.681	27.322	2.705	27.484	0.90
0.59					
3.615	2.667	27.267	2.692	27.429	0.90
0.59					

3.620	2.654	27.212	2.678	27.374	0.90
0.59					
3.625	2.641	27.157	2.665	27.319	0.90
0.59					
3.630	2.628	27.102	2.652	27.264	0.90
0.59					
3.635	2.614	27.048	2.638	27.209	0.90
0.59					
3.640	2.601	26.993	2.625	27.154	0.91
0.59					
3.645	2.588	26.938	2.612	27.100	0.91
0.59					
3.650	2.575	26.884	2.599	27.045	0.91
0.60					
3.655	2.563	26.830	2.586	26.990	0.91
0.60					
3.660	2.550	26.775	2.573	26.936	0.91
0.60					
3.665	2.537	26.721	2.560	26.881	0.91
0.60					
3.670	2.524	26.667	2.548	26.827	0.91
0.60					
3.675	2.512	26.613	2.535	26.773	0.91
0.60					
3.680	2.499	26.559	2.522	26.718	0.92
0.60					
3.685	2.487	26.505	2.510	26.664	0.92
0.60					
3.690	2.474	26.451	2.497	26.610	0.92
0.60					
3.695	2.462	26.397	2.485	26.556	0.92
0.60					
3.700	2.450	26.343	2.472	26.502	0.92
0.60					
3.705	2.437	26.290	2.460	26.448	0.92
0.60					
3.710	2.425	26.236	2.448	26.395	0.92
0.60					
3.715	2.413	26.182	2.435	26.341	0.92
0.60					
3.720	2.401	26.129	2.423	26.287	0.93
0.60					
3.725	2.389	26.076	2.411	26.234	0.93
0.60					
3.730	2.377	26.022	2.399	26.180	0.93
0.60					
3.735	2.365	25.969	2.387	26.127	0.93
0.60					
3.740	2.353	25.916	2.375	26.074	0.93
0.60					

3.745	2.341	25.863	2.363	26.020	0.93
0.60					
3.750	2.330	25.810	2.352	25.967	0.93
0.61					
3.755	2.318	25.757	2.340	25.914	0.93
0.61					
3.760	2.307	25.704	2.328	25.861	0.93
0.61					
3.765	2.295	25.651	2.317	25.808	0.94
0.61					
3.770	2.284	25.599	2.305	25.755	0.94
0.61					
3.775	2.272	25.546	2.294	25.702	0.94
0.61					
3.780	2.261	25.493	2.282	25.649	0.94
0.61					
3.785	2.249	25.441	2.271	25.597	0.94
0.61					
3.790	2.238	25.388	2.259	25.544	0.94
0.61					
3.795	2.227	25.336	2.248	25.492	0.94
0.61					
3.800	2.216	25.284	2.237	25.439	0.94
0.61					
3.805	2.205	25.232	2.226	25.387	0.95
0.61					
3.810	2.194	25.180	2.215	25.334	0.95
0.61					
3.815	2.183	25.128	2.204	25.282	0.95
0.61					
3.820	2.172	25.076	2.193	25.230	0.95
0.61					
3.825	2.161	25.024	2.182	25.178	0.95
0.61					
3.830	2.150	24.972	2.171	25.126	0.95
0.61					
3.835	2.139	24.920	2.160	25.074	0.95
0.61					
3.840	2.129	24.869	2.149	25.022	0.95
0.61					
3.845	2.118	24.817	2.139	24.970	0.96
0.61					
3.850	2.108	24.765	2.128	24.919	0.96
0.62					
3.855	2.097	24.714	2.117	24.867	0.96
0.62					
3.860	2.087	24.663	2.107	24.816	0.96
0.62					
3.865	2.076	24.611	2.096	24.764	0.96
0.62					

3.870	2.066	24.560	2.086	24.713	0.96
0.62					
3.875	2.055	24.509	2.075	24.661	0.96
0.62					
3.880	2.045	24.458	2.065	24.610	0.96
0.62					
3.885	2.035	24.407	2.055	24.559	0.97
0.62					
3.890	2.025	24.356	2.044	24.508	0.97
0.62					
3.895	2.015	24.305	2.034	24.457	0.97
0.62					
3.900	2.004	24.255	2.024	24.406	0.97
0.62					
3.905	1.994	24.204	2.014	24.355	0.97
0.62					
3.910	1.984	24.153	2.004	24.304	0.97
0.62					
3.915	1.975	24.103	1.994	24.254	0.97
0.62					
3.920	1.965	24.052	1.984	24.203	0.97
0.62					
3.925	1.955	24.002	1.974	24.152	0.98
0.62					
3.930	1.945	23.952	1.964	24.102	0.98
0.62					
3.935	1.935	23.902	1.954	24.052	0.98
0.62					
3.940	1.926	23.851	1.945	24.001	0.98
0.62					
3.945	1.916	23.801	1.935	23.951	0.98
0.62					
3.950	1.906	23.751	1.925	23.901	0.98
0.63					
3.955	1.897	23.701	1.916	23.851	0.98
0.63					
3.960	1.887	23.652	1.906	23.801	0.98
0.63					
3.965	1.878	23.602	1.897	23.751	0.99
0.63					
3.970	1.869	23.552	1.887	23.701	0.99
0.63					
3.975	1.859	23.503	1.878	23.651	0.99
0.63					
3.980	1.850	23.453	1.868	23.602	0.99
0.63					
3.985	1.841	23.404	1.859	23.552	0.99
0.63					
3.990	1.832	23.354	1.850	23.502	0.99
0.63					

3.995	1.822	23.305	1.841	23.453	0.99
0.63					
4.000	1.813	23.256	1.831	23.403	0.99
0.63					
4.005	1.804	23.207	1.822	23.354	1.00
0.63					
4.010	1.795	23.158	1.813	23.305	1.00
0.63					
4.015	1.786	23.109	1.804	23.256	1.00
0.63					
4.020	1.777	23.060	1.795	23.207	1.00
0.63					
4.025	1.768	23.011	1.786	23.158	1.00
0.63					
4.030	1.760	22.962	1.777	23.109	1.00
0.63					
4.035	1.751	22.914	1.768	23.060	1.00
0.63					
4.040	1.742	22.865	1.760	23.011	1.00
0.63					
4.045	1.733	22.817	1.751	22.962	1.01
0.63					
4.050	1.725	22.768	1.742	22.914	1.01
0.64					
4.055	1.716	22.720	1.733	22.865	1.01
0.64					
4.060	1.707	22.672	1.725	22.817	1.01
0.64					
4.065	1.699	22.623	1.716	22.768	1.01
0.64					
4.070	1.690	22.575	1.708	22.720	1.01
0.64					
4.075	1.682	22.527	1.699	22.672	1.01
0.64					
4.080	1.674	22.479	1.691	22.624	1.01
0.64					
4.085	1.665	22.432	1.682	22.576	1.01
0.64					
4.090	1.657	22.384	1.674	22.528	1.02
0.64					
4.095	1.649	22.336	1.665	22.480	1.02
0.64					
4.100	1.640	22.288	1.657	22.432	1.02
0.64					
4.105	1.632	22.241	1.649	22.384	1.02
0.64					
4.110	1.624	22.193	1.641	22.337	1.02
0.64					
4.115	1.616	22.146	1.633	22.289	1.02
0.64					

4.120	1.608	22.099	1.624	22.241	1.02
0.64					
4.125	1.600	22.051	1.616	22.194	1.02
0.64					
4.130	1.592	22.004	1.608	22.147	1.03
0.64					
4.135	1.584	21.957	1.600	22.099	1.03
0.64					
4.140	1.576	21.910	1.592	22.052	1.03
0.64					
4.145	1.568	21.863	1.584	22.005	1.03
0.64					
4.150	1.560	21.816	1.576	21.958	1.03
0.65					
4.155	1.552	21.769	1.569	21.911	1.03
0.65					
4.160	1.545	21.723	1.561	21.864	1.03
0.65					
4.165	1.537	21.676	1.553	21.817	1.03
0.65					
4.170	1.529	21.630	1.545	21.771	1.04
0.65					
4.175	1.522	21.583	1.537	21.724	1.04
0.65					
4.180	1.514	21.537	1.530	21.677	1.04
0.65					
4.185	1.506	21.490	1.522	21.631	1.04
0.65					
4.190	1.499	21.444	1.515	21.584	1.04
0.65					
4.195	1.491	21.398	1.507	21.538	1.04
0.65					
4.200	1.484	21.352	1.499	21.492	1.04
0.65					
4.205	1.476	21.306	1.492	21.446	1.04
0.65					
4.210	1.469	21.260	1.485	21.399	1.05
0.65					
4.215	1.462	21.214	1.477	21.353	1.05
0.65					
4.220	1.454	21.168	1.470	21.307	1.05
0.65					
4.225	1.447	21.123	1.462	21.262	1.05
0.65					
4.230	1.440	21.077	1.455	21.216	1.05
0.65					
4.235	1.433	21.032	1.448	21.170	1.05
0.65					
4.240	1.426	20.986	1.441	21.124	1.05
0.65					

4.245	1.418	20.941	1.434	21.079	1.05
0.65					
4.250	1.411	20.896	1.426	21.033	1.06
0.66					
4.255	1.404	20.850	1.419	20.988	1.06
0.66					
4.260	1.397	20.805	1.412	20.943	1.06
0.66					
4.265	1.390	20.760	1.405	20.897	1.06
0.66					
4.270	1.383	20.715	1.398	20.852	1.06
0.66					
4.275	1.376	20.670	1.391	20.807	1.06
0.66					
4.280	1.369	20.625	1.384	20.762	1.06
0.66					
4.285	1.363	20.581	1.377	20.717	1.06
0.66					
4.290	1.356	20.536	1.370	20.672	1.07
0.66					
4.295	1.349	20.491	1.364	20.627	1.07
0.66					
4.300	1.342	20.447	1.357	20.583	1.07
0.66					
4.305	1.336	20.402	1.350	20.538	1.07
0.66					
4.310	1.329	20.358	1.343	20.493	1.07
0.66					
4.315	1.322	20.314	1.337	20.449	1.07
0.66					
4.320	1.316	20.270	1.330	20.405	1.07
0.66					
4.325	1.309	20.225	1.323	20.360	1.07
0.66					
4.330	1.303	20.181	1.317	20.316	1.08
0.66					
4.335	1.296	20.137	1.310	20.272	1.08
0.66					
4.340	1.290	20.094	1.304	20.228	1.08
0.66					
4.345	1.283	20.050	1.297	20.184	1.08
0.66					
4.350	1.277	20.006	1.291	20.140	1.08
0.66					
4.355	1.270	19.962	1.284	20.096	1.08
0.67					
4.360	1.264	19.919	1.278	20.052	1.08
0.67					
4.365	1.258	19.875	1.271	20.008	1.08
0.67					

4.370	1.251	19.832	1.265	19.965	1.08
0.67					
4.375	1.245	19.788	1.259	19.921	1.09
0.67					
4.380	1.239	19.745	1.252	19.878	1.09
0.67					
4.385	1.233	19.702	1.246	19.834	1.09
0.67					
4.390	1.226	19.659	1.240	19.791	1.09
0.67					
4.395	1.220	19.616	1.234	19.748	1.09
0.67					
4.400	1.214	19.573	1.228	19.705	1.09
0.67					
4.405	1.208	19.530	1.222	19.662	1.09
0.67					
4.410	1.202	19.487	1.215	19.619	1.09
0.67					
4.415	1.196	19.444	1.209	19.576	1.10
0.67					
4.420	1.190	19.402	1.203	19.533	1.10
0.67					
4.425	1.184	19.359	1.197	19.490	1.10
0.67					
4.430	1.178	19.317	1.191	19.447	1.10
0.67					
4.435	1.172	19.274	1.185	19.405	1.10
0.67					
4.440	1.167	19.232	1.180	19.362	1.10
0.67					
4.445	1.161	19.190	1.174	19.320	1.10
0.67					
4.450	1.155	19.147	1.168	19.277	1.10
0.67					
4.455	1.149	19.105	1.162	19.235	1.11
0.67					
4.460	1.143	19.063	1.156	19.193	1.11
0.68					
4.465	1.138	19.021	1.150	19.151	1.11
0.68					
4.470	1.132	18.979	1.145	19.109	1.11
0.68					
4.475	1.126	18.938	1.139	19.066	1.11
0.68					
4.480	1.121	18.896	1.133	19.025	1.11
0.68					
4.485	1.115	18.854	1.128	18.983	1.11
0.68					
4.490	1.109	18.813	1.122	18.941	1.11
0.68					

4.495	1.104	18.771	1.116	18.899	1.12
0.68					
4.500	1.098	18.730	1.111	18.858	1.12
0.68					
4.505	1.093	18.688	1.105	18.816	1.12
0.68					
4.510	1.087	18.647	1.100	18.775	1.12
0.68					
4.515	1.082	18.606	1.094	18.733	1.12
0.68					
4.520	1.077	18.565	1.089	18.692	1.12
0.68					
4.525	1.071	18.524	1.083	18.651	1.12
0.68					
4.530	1.066	18.483	1.078	18.609	1.12
0.68					
4.535	1.061	18.442	1.073	18.568	1.13
0.68					
4.540	1.055	18.401	1.067	18.527	1.13
0.68					
4.545	1.050	18.360	1.062	18.486	1.13
0.68					
4.550	1.045	18.319	1.057	18.445	1.13
0.68					
4.555	1.040	18.279	1.051	18.405	1.13
0.68					
4.560	1.034	18.238	1.046	18.364	1.13
0.68					
4.565	1.029	18.198	1.041	18.323	1.13
0.69					
4.570	1.024	18.157	1.036	18.283	1.13
0.69					
4.575	1.019	18.117	1.031	18.242	1.14
0.69					
4.580	1.014	18.077	1.025	18.202	1.14
0.69					
4.585	1.009	18.037	1.020	18.162	1.14
0.69					
4.590	1.004	17.997	1.015	18.121	1.14
0.69					
4.595	0.999	17.957	1.010	18.081	1.14
0.69					
4.600	0.994	17.917	1.005	18.041	1.14
0.69					
4.605	0.989	17.877	1.000	18.001	1.14
0.69					
4.610	0.984	17.837	0.995	17.961	1.14
0.69					
4.615	0.979	17.797	0.990	17.921	1.15
0.69					

4.620	0.974	17.758	0.985	17.881	1.15
0.69					
4.625	0.969	17.718	0.980	17.841	1.15
0.69					
4.630	0.964	17.679	0.975	17.802	1.15
0.69					
4.635	0.959	17.639	0.971	17.762	1.15
0.69					
4.640	0.955	17.600	0.966	17.723	1.15
0.69					
4.645	0.950	17.561	0.961	17.683	1.15
0.69					
4.650	0.945	17.522	0.956	17.644	1.15
0.69					
4.655	0.940	17.483	0.951	17.605	1.16
0.69					
4.660	0.936	17.444	0.947	17.565	1.16
0.69					
4.665	0.931	17.405	0.942	17.526	1.16
0.69					
4.670	0.926	17.366	0.937	17.487	1.16
0.69					
4.675	0.922	17.327	0.932	17.448	1.16
0.70					
4.680	0.917	17.288	0.928	17.409	1.16
0.70					
4.685	0.912	17.249	0.923	17.370	1.16
0.70					
4.690	0.908	17.211	0.919	17.332	1.16
0.70					
4.695	0.903	17.172	0.914	17.293	1.16
0.70					
4.700	0.899	17.134	0.909	17.254	1.17
0.70					
4.705	0.894	17.096	0.905	17.216	1.17
0.70					
4.710	0.890	17.057	0.900	17.177	1.17
0.70					
4.715	0.885	17.019	0.896	17.139	1.17
0.70					
4.720	0.881	16.981	0.891	17.101	1.17
0.70					
4.725	0.877	16.943	0.887	17.062	1.17
0.70					
4.730	0.872	16.905	0.883	17.024	1.17
0.70					
4.735	0.868	16.867	0.878	16.986	1.17
0.70					
4.740	0.864	16.829	0.874	16.948	1.18
0.70					

4.745	0.859	16.791	0.869	16.910	1.18
0.70					
4.750	0.855	16.754	0.865	16.872	1.18
0.70					
4.755	0.851	16.716	0.861	16.834	1.18
0.70					
4.760	0.846	16.678	0.857	16.797	1.18
0.70					
4.765	0.842	16.641	0.852	16.759	1.18
0.70					
4.770	0.838	16.604	0.848	16.721	1.18
0.70					
4.775	0.834	16.566	0.844	16.684	1.18
0.70					
4.780	0.830	16.529	0.840	16.646	1.19
0.70					
4.785	0.825	16.492	0.835	16.609	1.19
0.71					
4.790	0.821	16.455	0.831	16.572	1.19
0.71					
4.795	0.817	16.418	0.827	16.534	1.19
0.71					
4.800	0.813	16.381	0.823	16.497	1.19
0.71					
4.805	0.809	16.344	0.819	16.460	1.19
0.71					
4.810	0.805	16.307	0.815	16.423	1.19
0.71					
4.815	0.801	16.270	0.811	16.386	1.19
0.71					
4.820	0.797	16.233	0.807	16.349	1.20
0.71					
4.825	0.793	16.197	0.803	16.312	1.20
0.71					
4.830	0.789	16.160	0.799	16.276	1.20
0.71					
4.835	0.785	16.124	0.795	16.239	1.20
0.71					
4.840	0.781	16.087	0.791	16.202	1.20
0.71					
4.845	0.777	16.051	0.787	16.166	1.20
0.71					
4.850	0.773	16.015	0.783	16.129	1.20
0.71					
4.855	0.770	15.979	0.779	16.093	1.20
0.71					
4.860	0.766	15.942	0.775	16.057	1.21
0.71					
4.865	0.762	15.906	0.771	16.021	1.21
0.71					

4.870	0.758	15.870	0.767	15.984	1.21
0.71					
4.875	0.754	15.835	0.763	15.948	1.21
0.71					
4.880	0.750	15.799	0.760	15.912	1.21
0.71					
4.885	0.747	15.763	0.756	15.876	1.21
0.71					
4.890	0.743	15.727	0.752	15.840	1.21
0.71					
4.895	0.739	15.692	0.748	15.805	1.21
0.72					
4.900	0.736	15.656	0.745	15.769	1.22
0.72					
4.905	0.732	15.621	0.741	15.733	1.22
0.72					
4.910	0.728	15.585	0.737	15.698	1.22
0.72					
4.915	0.725	15.550	0.734	15.662	1.22
0.72					
4.920	0.721	15.515	0.730	15.627	1.22
0.72					
4.925	0.717	15.479	0.726	15.591	1.22
0.72					
4.930	0.714	15.444	0.723	15.556	1.22
0.72					
4.935	0.710	15.409	0.719	15.521	1.22
0.72					
4.940	0.707	15.374	0.715	15.486	1.23
0.72					
4.945	0.703	15.339	0.712	15.450	1.23
0.72					
4.950	0.700	15.304	0.708	15.415	1.23
0.72					
4.955	0.696	15.270	0.705	15.380	1.23
0.72					
4.960	0.693	15.235	0.701	15.346	1.23
0.72					
4.965	0.689	15.200	0.698	15.311	1.23
0.72					
4.970	0.686	15.166	0.694	15.276	1.23
0.72					
4.975	0.682	15.131	0.691	15.241	1.23
0.72					
4.980	0.679	15.097	0.687	15.207	1.23
0.72					
4.985	0.675	15.062	0.684	15.172	1.24
0.72					
4.990	0.672	15.028	0.681	15.138	1.24
0.72					

4.995	0.669	14.994	0.677	15.103	1.24
0.72					
5.000	0.665	14.960	0.674	15.069	1.24
0.72					
5.005	0.662	14.926	0.670	15.035	1.24
0.73					
5.010	0.659	14.892	0.667	15.000	1.24
0.73					
5.015	0.655	14.858	0.664	14.966	1.24
0.73					
5.020	0.652	14.824	0.660	14.932	1.24
0.73					
5.025	0.649	14.790	0.657	14.898	1.25
0.73					
5.030	0.646	14.756	0.654	14.864	1.25
0.73					
5.035	0.642	14.723	0.651	14.831	1.25
0.73					
5.040	0.639	14.689	0.647	14.797	1.25
0.73					
5.045	0.636	14.655	0.644	14.763	1.25
0.73					
5.050	0.633	14.622	0.641	14.729	1.25
0.73					
5.055	0.630	14.589	0.638	14.696	1.25
0.73					
5.060	0.627	14.555	0.635	14.662	1.25
0.73					
5.065	0.623	14.522	0.631	14.629	1.26
0.73					
5.070	0.620	14.489	0.628	14.595	1.26
0.73					
5.075	0.617	14.456	0.625	14.562	1.26
0.73					
5.080	0.614	14.422	0.622	14.529	1.26
0.73					
5.085	0.611	14.389	0.619	14.496	1.26
0.73					
5.090	0.608	14.357	0.616	14.463	1.26
0.73					
5.095	0.605	14.324	0.613	14.430	1.26
0.73					
5.100	0.602	14.291	0.610	14.397	1.26
0.73					
5.105	0.599	14.258	0.607	14.364	1.27
0.73					
5.110	0.596	14.225	0.604	14.331	1.27
0.73					
5.115	0.593	14.193	0.601	14.298	1.27
0.74					

5.120	0.590	14.160	0.598	14.265	1.27
0.74					
5.125	0.587	14.128	0.595	14.233	1.27
0.74					
5.130	0.584	14.095	0.592	14.200	1.27
0.74					
5.135	0.581	14.063	0.589	14.168	1.27
0.74					
5.140	0.578	14.031	0.586	14.135	1.27
0.74					
5.145	0.575	13.999	0.583	14.103	1.28
0.74					
5.150	0.572	13.967	0.580	14.070	1.28
0.74					
5.155	0.570	13.934	0.577	14.038	1.28
0.74					
5.160	0.567	13.902	0.574	14.006	1.28
0.74					
5.165	0.564	13.871	0.571	13.974	1.28
0.74					
5.170	0.561	13.839	0.568	13.942	1.28
0.74					
5.175	0.558	13.807	0.566	13.910	1.28
0.74					
5.180	0.556	13.775	0.563	13.878	1.28
0.74					
5.185	0.553	13.743	0.560	13.846	1.29
0.74					
5.190	0.550	13.712	0.557	13.814	1.29
0.74					
5.195	0.547	13.680	0.554	13.783	1.29
0.74					
5.200	0.545	13.649	0.552	13.751	1.29
0.74					
5.205	0.542	13.617	0.549	13.719	1.29
0.74					
5.210	0.539	13.586	0.546	13.688	1.29
0.74					
5.215	0.536	13.555	0.543	13.656	1.29
0.74					
5.220	0.534	13.524	0.541	13.625	1.29
0.74					
5.225	0.531	13.492	0.538	13.594	1.29
0.74					
5.230	0.528	13.461	0.535	13.562	1.30
0.75					
5.235	0.526	13.430	0.533	13.531	1.30
0.75					
5.240	0.523	13.399	0.530	13.500	1.30
0.75					

5.245	0.520	13.368	0.527	13.469	1.30
0.75					
5.250	0.518	13.338	0.525	13.438	1.30
0.75					
5.255	0.515	13.307	0.522	13.407	1.30
0.75					
5.260	0.513	13.276	0.519	13.376	1.30
0.75					
5.265	0.510	13.246	0.517	13.345	1.30
0.75					
5.270	0.508	13.215	0.514	13.315	1.31
0.75					
5.275	0.505	13.184	0.512	13.284	1.31
0.75					
5.280	0.503	13.154	0.509	13.253	1.31
0.75					
5.285	0.500	13.124	0.507	13.223	1.31
0.75					
5.290	0.498	13.093	0.504	13.192	1.31
0.75					
5.295	0.495	13.063	0.502	13.162	1.31
0.75					
5.300	0.493	13.033	0.499	13.131	1.31
0.75					
5.305	0.490	13.003	0.497	13.101	1.31
0.75					
5.310	0.488	12.973	0.494	13.071	1.32
0.75					
5.315	0.485	12.943	0.492	13.041	1.32
0.75					
5.320	0.483	12.913	0.489	13.011	1.32
0.75					
5.325	0.480	12.883	0.487	12.981	1.32
0.75					
5.330	0.478	12.853	0.484	12.951	1.32
0.75					
5.335	0.476	12.823	0.482	12.921	1.32
0.75					
5.340	0.473	12.794	0.480	12.891	1.32
0.75					
5.345	0.471	12.764	0.477	12.861	1.32
0.76					
5.350	0.468	12.734	0.475	12.831	1.33
0.76					
5.355	0.466	12.705	0.472	12.802	1.33
0.76					
5.360	0.464	12.675	0.470	12.772	1.33
0.76					
5.365	0.461	12.646	0.468	12.742	1.33
0.76					

5.370	0.459	12.617	0.465	12.713	1.33
0.76					
5.375	0.457	12.587	0.463	12.684	1.33
0.76					
5.380	0.455	12.558	0.461	12.654	1.33
0.76					
5.385	0.452	12.529	0.458	12.625	1.33
0.76					
5.390	0.450	12.500	0.456	12.596	1.34
0.76					
5.395	0.448	12.471	0.454	12.566	1.34
0.76					
5.400	0.446	12.442	0.452	12.537	1.34
0.76					
5.405	0.443	12.413	0.449	12.508	1.34
0.76					
5.410	0.441	12.384	0.447	12.479	1.34
0.76					
5.415	0.439	12.356	0.445	12.450	1.34
0.76					
5.420	0.437	12.327	0.443	12.421	1.34
0.76					
5.425	0.435	12.298	0.440	12.393	1.34
0.76					
5.430	0.432	12.270	0.438	12.364	1.35
0.76					
5.435	0.430	12.241	0.436	12.335	1.35
0.76					
5.440	0.428	12.213	0.434	12.307	1.35
0.76					
5.445	0.426	12.184	0.432	12.278	1.35
0.76					
5.450	0.424	12.156	0.430	12.250	1.35
0.76					
5.455	0.422	12.128	0.427	12.221	1.35
0.76					
5.460	0.420	12.099	0.425	12.193	1.35
0.77					
5.465	0.417	12.071	0.423	12.164	1.35
0.77					
5.470	0.415	12.043	0.421	12.136	1.36
0.77					
5.475	0.413	12.015	0.419	12.108	1.36
0.77					
5.480	0.411	11.987	0.417	12.080	1.36
0.77					
5.485	0.409	11.959	0.415	12.052	1.36
0.77					
5.490	0.407	11.931	0.413	12.024	1.36
0.77					

5.495	0.405	11.904	0.411	11.996	1.36
0.77					
5.500	0.403	11.876	0.409	11.968	1.36
0.77					
5.505	0.401	11.848	0.407	11.940	1.36
0.77					
5.510	0.399	11.820	0.405	11.912	1.36
0.77					
5.515	0.397	11.793	0.403	11.884	1.37
0.77					
5.520	0.395	11.765	0.401	11.857	1.37
0.77					
5.525	0.393	11.738	0.399	11.829	1.37
0.77					
5.530	0.391	11.711	0.397	11.802	1.37
0.77					
5.535	0.389	11.683	0.395	11.774	1.37
0.77					
5.540	0.387	11.656	0.393	11.747	1.37
0.77					
5.545	0.385	11.629	0.391	11.719	1.37
0.77					
5.550	0.383	11.602	0.389	11.692	1.37
0.77					
5.555	0.381	11.575	0.387	11.665	1.38
0.77					
5.560	0.380	11.547	0.385	11.638	1.38
0.77					
5.565	0.378	11.520	0.383	11.610	1.38
0.77					
5.570	0.376	11.494	0.381	11.583	1.38
0.77					
5.575	0.374	11.467	0.379	11.556	1.38
0.78					
5.580	0.372	11.440	0.377	11.529	1.38
0.78					
5.585	0.370	11.413	0.375	11.502	1.38
0.78					
5.590	0.368	11.386	0.373	11.476	1.38
0.78					
5.595	0.366	11.360	0.372	11.449	1.39
0.78					
5.600	0.365	11.333	0.370	11.422	1.39
0.78					
5.605	0.363	11.307	0.368	11.395	1.39
0.78					
5.610	0.361	11.280	0.366	11.369	1.39
0.78					
5.615	0.359	11.254	0.364	11.342	1.39
0.78					

5.620	0.357	11.228	0.362	11.316	1.39
0.78					
5.625	0.356	11.201	0.361	11.289	1.39
0.78					
5.630	0.354	11.175	0.359	11.263	1.39
0.78					
5.635	0.352	11.149	0.357	11.236	1.40
0.78					
5.640	0.350	11.123	0.355	11.210	1.40
0.78					
5.645	0.349	11.097	0.353	11.184	1.40
0.78					
5.650	0.347	11.071	0.352	11.158	1.40
0.78					
5.655	0.345	11.045	0.350	11.132	1.40
0.78					
5.660	0.343	11.019	0.348	11.106	1.40
0.78					
5.665	0.342	10.993	0.346	11.080	1.40
0.78					
5.670	0.340	10.967	0.345	11.054	1.40
0.78					
5.675	0.338	10.941	0.343	11.028	1.41
0.78					
5.680	0.337	10.916	0.341	11.002	1.41
0.78					
5.685	0.335	10.890	0.340	10.976	1.41
0.78					
5.690	0.333	10.865	0.338	10.951	1.41
0.78					
5.695	0.332	10.839	0.336	10.925	1.41
0.79					
5.700	0.330	10.814	0.335	10.899	1.41
0.79					
5.705	0.328	10.788	0.333	10.874	1.41
0.79					
5.710	0.327	10.763	0.331	10.848	1.41
0.79					
5.715	0.325	10.738	0.330	10.823	1.42
0.79					
5.720	0.323	10.712	0.328	10.797	1.42
0.79					
5.725	0.322	10.687	0.326	10.772	1.42
0.79					
5.730	0.320	10.662	0.325	10.747	1.42
0.79					
5.735	0.318	10.637	0.323	10.722	1.42
0.79					
5.740	0.317	10.612	0.321	10.696	1.42
0.79					

5.745	0.315	10.587	0.320	10.671	1.42
0.79					
5.750	0.314	10.562	0.318	10.646	1.42
0.79					
5.755	0.312	10.537	0.317	10.621	1.42
0.79					
5.760	0.311	10.513	0.315	10.596	1.43
0.79					
5.765	0.309	10.488	0.314	10.571	1.43
0.79					
5.770	0.307	10.463	0.312	10.547	1.43
0.79					
5.775	0.306	10.438	0.310	10.522	1.43
0.79					
5.780	0.304	10.414	0.309	10.497	1.43
0.79					
5.785	0.303	10.389	0.307	10.472	1.43
0.79					
5.790	0.301	10.365	0.306	10.448	1.43
0.79					
5.795	0.300	10.341	0.304	10.423	1.43
0.79					
5.800	0.298	10.316	0.303	10.399	1.44
0.79					
5.805	0.297	10.292	0.301	10.374	1.44
0.79					
5.810	0.295	10.268	0.300	10.350	1.44
0.79					
5.815	0.294	10.243	0.298	10.326	1.44
0.80					
5.820	0.292	10.219	0.297	10.301	1.44
0.80					
5.825	0.291	10.195	0.295	10.277	1.44
0.80					
5.830	0.290	10.171	0.294	10.253	1.44
0.80					
5.835	0.288	10.147	0.292	10.229	1.44
0.80					
5.840	0.287	10.123	0.291	10.205	1.45
0.80					
5.845	0.285	10.099	0.289	10.181	1.45
0.80					
5.850	0.284	10.075	0.288	10.157	1.45
0.80					
5.855	0.282	10.052	0.287	10.133	1.45
0.80					
5.860	0.281	10.028	0.285	10.109	1.45
0.80					
5.865	0.280	10.004	0.284	10.085	1.45
0.80					

5.870	0.278	9.981	0.282	10.061	1.45
0.80					
5.875	0.277	9.957	0.281	10.037	1.45
0.80					
5.880	0.275	9.934	0.279	10.014	1.46
0.80					
5.885	0.274	9.910	0.278	9.990	1.46
0.80					
5.890	0.273	9.887	0.277	9.967	1.46
0.80					
5.895	0.271	9.863	0.275	9.943	1.46
0.80					
5.900	0.270	9.840	0.274	9.920	1.46
0.80					
5.905	0.269	9.817	0.273	9.896	1.46
0.80					
5.910	0.267	9.794	0.271	9.873	1.46
0.80					
5.915	0.266	9.770	0.270	9.850	1.46
0.80					
5.920	0.265	9.747	0.268	9.826	1.47
0.80					
5.925	0.263	9.724	0.267	9.803	1.47
0.80					
5.930	0.262	9.701	0.266	9.780	1.47
0.80					
5.935	0.261	9.678	0.264	9.757	1.47
0.81					
5.940	0.259	9.655	0.263	9.734	1.47
0.81					
5.945	0.258	9.633	0.262	9.711	1.47
0.81					
5.950	0.257	9.610	0.261	9.688	1.47
0.81					
5.955	0.255	9.587	0.259	9.665	1.47
0.81					
5.960	0.254	9.564	0.258	9.642	1.48
0.81					
5.965	0.253	9.542	0.257	9.619	1.48
0.81					
5.970	0.252	9.519	0.255	9.597	1.48
0.81					
5.975	0.250	9.497	0.254	9.574	1.48
0.81					
5.980	0.249	9.474	0.253	9.551	1.48
0.81					
5.985	0.248	9.452	0.252	9.529	1.48
0.81					
5.990	0.247	9.429	0.250	9.506	1.48
0.81					

5.995	0.245	9.407	0.249	9.484	1.48
0.81					
6.000	0.244	9.385	0.248	9.461	1.48
0.81					
6.005	0.243	9.362	0.247	9.439	1.49
0.81					
6.010	0.242	9.340	0.245	9.417	1.49
0.81					
6.015	0.241	9.318	0.244	9.394	1.49
0.81					
6.020	0.239	9.296	0.243	9.372	1.49
0.81					
6.025	0.238	9.274	0.242	9.350	1.49
0.81					
6.030	0.237	9.252	0.241	9.328	1.49
0.81					
6.035	0.236	9.230	0.239	9.306	1.49
0.81					
6.040	0.235	9.208	0.238	9.284	1.49
0.81					
6.045	0.233	9.186	0.237	9.262	1.50
0.81					
6.050	0.232	9.164	0.236	9.240	1.50
0.81					
6.055	0.231	9.143	0.235	9.218	1.50
0.81					
6.060	0.230	9.121	0.233	9.196	1.50
0.82					
6.065	0.229	9.099	0.232	9.174	1.50
0.82					
6.070	0.228	9.078	0.231	9.152	1.50
0.82					
6.075	0.226	9.056	0.230	9.131	1.50
0.82					
6.080	0.225	9.035	0.229	9.109	1.50
0.82					
6.085	0.224	9.013	0.228	9.087	1.51
0.82					
6.090	0.223	8.992	0.227	9.066	1.51
0.82					
6.095	0.222	8.970	0.225	9.044	1.51
0.82					
6.100	0.221	8.949	0.224	9.023	1.51
0.82					
6.105	0.220	8.928	0.223	9.001	1.51
0.82					
6.110	0.219	8.906	0.222	8.980	1.51
0.82					
6.115	0.218	8.885	0.221	8.959	1.51
0.82					

6.120	0.216	8.864	0.220	8.937	1.51
0.82					
6.125	0.215	8.843	0.219	8.916	1.52
0.82					
6.130	0.214	8.822	0.218	8.895	1.52
0.82					
6.135	0.213	8.801	0.217	8.874	1.52
0.82					
6.140	0.212	8.780	0.215	8.853	1.52
0.82					
6.145	0.211	8.759	0.214	8.832	1.52
0.82					
6.150	0.210	8.738	0.213	8.811	1.52
0.82					
6.155	0.209	8.718	0.212	8.790	1.52
0.82					
6.160	0.208	8.697	0.211	8.769	1.52
0.82					
6.165	0.207	8.676	0.210	8.748	1.53
0.82					
6.170	0.206	8.655	0.209	8.727	1.53
0.82					
6.175	0.205	8.635	0.208	8.707	1.53
0.82					
6.180	0.204	8.614	0.207	8.686	1.53
0.83					
6.185	0.203	8.594	0.206	8.665	1.53
0.83					
6.190	0.202	8.573	0.205	8.645	1.53
0.83					
6.195	0.201	8.553	0.204	8.624	1.53
0.83					
6.200	0.200	8.532	0.203	8.604	1.53
0.83					
6.205	0.199	8.512	0.202	8.583	1.54
0.83					
6.210	0.198	8.492	0.201	8.563	1.54
0.83					
6.215	0.197	8.472	0.200	8.542	1.54
0.83					
6.220	0.196	8.451	0.199	8.522	1.54
0.83					
6.225	0.195	8.431	0.198	8.502	1.54
0.83					
6.230	0.194	8.411	0.197	8.481	1.54
0.83					
6.235	0.193	8.391	0.196	8.461	1.54
0.83					
6.240	0.192	8.371	0.195	8.441	1.54
0.83					

6.245	0.191	8.351	0.194	8.421	1.54
0.83					
6.250	0.190	8.331	0.193	8.401	1.55
0.83					
6.255	0.189	8.311	0.192	8.381	1.55
0.83					
6.260	0.188	8.291	0.191	8.361	1.55
0.83					
6.265	0.187	8.272	0.190	8.341	1.55
0.83					
6.270	0.186	8.252	0.189	8.321	1.55
0.83					
6.275	0.185	8.232	0.188	8.301	1.55
0.83					
6.280	0.184	8.213	0.187	8.281	1.55
0.83					
6.285	0.183	8.193	0.186	8.262	1.55
0.83					
6.290	0.183	8.173	0.185	8.242	1.56
0.83					
6.295	0.182	8.154	0.185	8.222	1.56
0.83					
6.300	0.181	8.134	0.184	8.203	1.56
0.83					
6.305	0.180	8.115	0.183	8.183	1.56
0.84					
6.310	0.179	8.095	0.182	8.164	1.56
0.84					
6.315	0.178	8.076	0.181	8.144	1.56
0.84					
6.320	0.177	8.057	0.180	8.125	1.56
0.84					
6.325	0.176	8.038	0.179	8.105	1.56
0.84					
6.330	0.175	8.018	0.178	8.086	1.57
0.84					
6.335	0.175	7.999	0.177	8.067	1.57
0.84					
6.340	0.174	7.980	0.176	8.047	1.57
0.84					
6.345	0.173	7.961	0.176	8.028	1.57
0.84					
6.350	0.172	7.942	0.175	8.009	1.57
0.84					
6.355	0.171	7.923	0.174	7.990	1.57
0.84					
6.360	0.170	7.904	0.173	7.971	1.57
0.84					
6.365	0.169	7.885	0.172	7.952	1.57
0.84					

6.370	0.169	7.866	0.171	7.933	1.58
0.84					
6.375	0.168	7.847	0.170	7.914	1.58
0.84					
6.380	0.167	7.829	0.169	7.895	1.58
0.84					
6.385	0.166	7.810	0.169	7.876	1.58
0.84					
6.390	0.165	7.791	0.168	7.857	1.58
0.84					
6.395	0.164	7.772	0.167	7.839	1.58
0.84					
6.400	0.164	7.754	0.166	7.820	1.58
0.84					
6.405	0.163	7.735	0.165	7.801	1.58
0.84					
6.410	0.162	7.717	0.164	7.782	1.59
0.84					
6.415	0.161	7.698	0.164	7.764	1.59
0.84					
6.420	0.160	7.680	0.163	7.745	1.59
0.84					
6.425	0.159	7.661	0.162	7.727	1.59
0.84					
6.430	0.159	7.643	0.161	7.708	1.59
0.85					
6.435	0.158	7.625	0.160	7.690	1.59
0.85					
6.440	0.157	7.606	0.160	7.671	1.59
0.85					
6.445	0.156	7.588	0.159	7.653	1.59
0.85					
6.450	0.156	7.570	0.158	7.635	1.59
0.85					
6.455	0.155	7.552	0.157	7.616	1.60
0.85					
6.460	0.154	7.534	0.156	7.598	1.60
0.85					
6.465	0.153	7.516	0.156	7.580	1.60
0.85					
6.470	0.152	7.498	0.155	7.562	1.60
0.85					
6.475	0.152	7.480	0.154	7.544	1.60
0.85					
6.480	0.151	7.462	0.153	7.526	1.60
0.85					
6.485	0.150	7.444	0.153	7.508	1.60
0.85					
6.490	0.149	7.426	0.152	7.490	1.60
0.85					

6.495	0.149	7.408	0.151	7.472	1.61
0.85					
6.500	0.148	7.390	0.150	7.454	1.61
0.85					
6.505	0.147	7.373	0.150	7.436	1.61
0.85					
6.510	0.146	7.355	0.149	7.418	1.61
0.85					
6.515	0.146	7.337	0.148	7.400	1.61
0.85					
6.520	0.145	7.320	0.147	7.383	1.61
0.85					
6.525	0.144	7.302	0.147	7.365	1.61
0.85					
6.530	0.144	7.285	0.146	7.347	1.61
0.85					
6.535	0.143	7.267	0.145	7.330	1.62
0.85					
6.540	0.142	7.250	0.144	7.312	1.62
0.85					
6.545	0.141	7.232	0.144	7.294	1.62
0.85					
6.550	0.141	7.215	0.143	7.277	1.62
0.85					
6.555	0.140	7.197	0.142	7.260	1.62
0.85					
6.560	0.139	7.180	0.142	7.242	1.62
0.86					
6.565	0.139	7.163	0.141	7.225	1.62
0.86					
6.570	0.138	7.146	0.140	7.207	1.62
0.86					
6.575	0.137	7.129	0.139	7.190	1.63
0.86					
6.580	0.137	7.111	0.139	7.173	1.63
0.86					
6.585	0.136	7.094	0.138	7.156	1.63
0.86					
6.590	0.135	7.077	0.137	7.138	1.63
0.86					
6.595	0.134	7.060	0.137	7.121	1.63
0.86					
6.600	0.134	7.043	0.136	7.104	1.63
0.86					
6.605	0.133	7.026	0.135	7.087	1.63
0.86					
6.610	0.132	7.009	0.135	7.070	1.63
0.86					
6.615	0.132	6.993	0.134	7.053	1.64
0.86					

6.620	0.131	6.976	0.133	7.036	1.64
0.86					
6.625	0.130	6.959	0.133	7.019	1.64
0.86					
6.630	0.130	6.942	0.132	7.002	1.64
0.86					
6.635	0.129	6.925	0.131	6.986	1.64
0.86					
6.640	0.129	6.909	0.131	6.969	1.64
0.86					
6.645	0.128	6.892	0.130	6.952	1.64
0.86					
6.650	0.127	6.876	0.129	6.935	1.64
0.86					
6.655	0.127	6.859	0.129	6.919	1.65
0.86					
6.660	0.126	6.842	0.128	6.902	1.65
0.86					
6.665	0.125	6.826	0.127	6.885	1.65
0.86					
6.670	0.125	6.810	0.127	6.869	1.65
0.86					
6.675	0.124	6.793	0.126	6.852	1.65
0.86					
6.680	0.123	6.777	0.126	6.836	1.65
0.86					
6.685	0.123	6.760	0.125	6.819	1.65
0.87					
6.690	0.122	6.744	0.124	6.803	1.65
0.87					
6.695	0.122	6.728	0.124	6.787	1.65
0.87					
6.700	0.121	6.712	0.123	6.770	1.66
0.87					
6.705	0.120	6.696	0.122	6.754	1.66
0.87					
6.710	0.120	6.679	0.122	6.738	1.66
0.87					
6.715	0.119	6.663	0.121	6.722	1.66
0.87					
6.720	0.119	6.647	0.121	6.705	1.66
0.87					
6.725	0.118	6.631	0.120	6.689	1.66
0.87					
6.730	0.117	6.615	0.119	6.673	1.66
0.87					
6.735	0.117	6.599	0.119	6.657	1.66
0.87					
6.740	0.116	6.583	0.118	6.641	1.67
0.87					

6.745	0.116	6.567	0.118	6.625	1.67
0.87					
6.750	0.115	6.552	0.117	6.609	1.67
0.87					
6.755	0.115	6.536	0.116	6.593	1.67
0.87					
6.760	0.114	6.520	0.116	6.577	1.67
0.87					
6.765	0.113	6.504	0.115	6.561	1.67
0.87					
6.770	0.113	6.489	0.115	6.546	1.67
0.87					
6.775	0.112	6.473	0.114	6.530	1.67
0.87					
6.780	0.112	6.457	0.114	6.514	1.68
0.87					
6.785	0.111	6.442	0.113	6.498	1.68
0.87					
6.790	0.111	6.426	0.112	6.483	1.68
0.87					
6.795	0.110	6.411	0.112	6.467	1.68
0.87					
6.800	0.109	6.395	0.111	6.452	1.68
0.87					
6.805	0.109	6.380	0.111	6.436	1.68
0.87					
6.810	0.108	6.364	0.110	6.420	1.68
0.87					
6.815	0.108	6.349	0.110	6.405	1.68
0.88					
6.820	0.107	6.334	0.109	6.390	1.69
0.88					
6.825	0.107	6.318	0.109	6.374	1.69
0.88					
6.830	0.106	6.303	0.108	6.359	1.69
0.88					
6.835	0.106	6.288	0.108	6.343	1.69
0.88					
6.840	0.105	6.273	0.107	6.328	1.69
0.88					
6.845	0.105	6.257	0.106	6.313	1.69
0.88					
6.850	0.104	6.242	0.106	6.298	1.69
0.88					
6.855	0.104	6.227	0.105	6.282	1.69
0.88					
6.860	0.103	6.212	0.105	6.267	1.70
0.88					
6.865	0.103	6.197	0.104	6.252	1.70
0.88					

6.870	0.102	6.182	0.104	6.237	1.70
0.88					
6.875	0.102	6.167	0.103	6.222	1.70
0.88					
6.880	0.101	6.152	0.103	6.207	1.70
0.88					
6.885	0.101	6.137	0.102	6.192	1.70
0.88					
6.890	0.100	6.123	0.102	6.177	1.70
0.88					
6.895	0.100	6.108	0.101	6.162	1.70
0.88					
6.900	0.099	6.093	0.101	6.147	1.70
0.88					
6.905	0.099	6.078	0.100	6.132	1.71
0.88					
6.910	0.098	6.064	0.100	6.118	1.71
0.88					
6.915	0.098	6.049	0.099	6.103	1.71
0.88					
6.920	0.097	6.034	0.099	6.088	1.71
0.88					
6.925	0.097	6.020	0.098	6.073	1.71
0.88					
6.930	0.096	6.005	0.098	6.059	1.71
0.88					
6.935	0.096	5.991	0.097	6.044	1.71
0.88					
6.940	0.095	5.976	0.097	6.029	1.71
0.88					
6.945	0.095	5.962	0.096	6.015	1.72
0.89					
6.950	0.094	5.947	0.096	6.000	1.72
0.89					
6.955	0.094	5.933	0.095	5.986	1.72
0.89					
6.960	0.093	5.918	0.095	5.971	1.72
0.89					
6.965	0.093	5.904	0.094	5.957	1.72
0.89					
6.970	0.092	5.890	0.094	5.942	1.72
0.89					
6.975	0.092	5.876	0.093	5.928	1.72
0.89					
6.980	0.091	5.861	0.093	5.914	1.72
0.89					
6.985	0.091	5.847	0.093	5.899	1.73
0.89					
6.990	0.091	5.833	0.092	5.885	1.73
0.89					

6.995	0.090	5.819	0.092	5.871	1.73
0.89					
7.000	0.090	5.805	0.091	5.857	1.73
0.89					
7.005	0.089	5.791	0.091	5.843	1.73
0.89					
7.010	0.089	5.777	0.090	5.828	1.73
0.89					
7.015	0.088	5.763	0.090	5.814	1.73
0.89					
7.020	0.088	5.749	0.089	5.800	1.73
0.89					
7.025	0.087	5.735	0.089	5.786	1.74
0.89					
7.030	0.087	5.721	0.088	5.772	1.74
0.89					
7.035	0.087	5.707	0.088	5.758	1.74
0.89					
7.040	0.086	5.693	0.088	5.744	1.74
0.89					
7.045	0.086	5.679	0.087	5.730	1.74
0.89					
7.050	0.085	5.666	0.087	5.717	1.74
0.89					
7.055	0.085	5.652	0.086	5.703	1.74
0.89					
7.060	0.084	5.638	0.086	5.689	1.74
0.89					
7.065	0.084	5.624	0.085	5.675	1.75
0.89					
7.070	0.084	5.611	0.085	5.661	1.75
0.89					
7.075	0.083	5.597	0.085	5.648	1.75
0.89					
7.080	0.083	5.584	0.084	5.634	1.75
0.90					
7.085	0.082	5.570	0.084	5.620	1.75
0.90					
7.090	0.082	5.556	0.083	5.607	1.75
0.90					
7.095	0.081	5.543	0.083	5.593	1.75
0.90					
7.100	0.081	5.530	0.083	5.580	1.75
0.90					
7.105	0.081	5.516	0.082	5.566	1.76
0.90					
7.110	0.080	5.503	0.082	5.553	1.76
0.90					
7.115	0.080	5.489	0.081	5.539	1.76
0.90					

7.120	0.079	5.476	0.081	5.526	1.76
0.90					
7.125	0.079	5.463	0.080	5.512	1.76
0.90					
7.130	0.079	5.450	0.080	5.499	1.76
0.90					
7.135	0.078	5.436	0.080	5.486	1.76
0.90					
7.140	0.078	5.423	0.079	5.472	1.76
0.90					
7.145	0.077	5.410	0.079	5.459	1.76
0.90					
7.150	0.077	5.397	0.078	5.446	1.77
0.90					
7.155	0.077	5.384	0.078	5.433	1.77
0.90					
7.160	0.076	5.371	0.078	5.419	1.77
0.90					
7.165	0.076	5.358	0.077	5.406	1.77
0.90					
7.170	0.076	5.345	0.077	5.393	1.77
0.90					
7.175	0.075	5.332	0.077	5.380	1.77
0.90					
7.180	0.075	5.319	0.076	5.367	1.77
0.90					
7.185	0.074	5.306	0.076	5.354	1.77
0.90					
7.190	0.074	5.293	0.075	5.341	1.78
0.90					
7.195	0.074	5.280	0.075	5.328	1.78
0.90					
7.200	0.073	5.267	0.075	5.315	1.78
0.90					
7.205	0.073	5.254	0.074	5.302	1.78
0.90					
7.210	0.073	5.241	0.074	5.289	1.78
0.91					
7.215	0.072	5.229	0.074	5.277	1.78
0.91					
7.220	0.072	5.216	0.073	5.264	1.78
0.91					
7.225	0.072	5.203	0.073	5.251	1.78
0.91					
7.230	0.071	5.191	0.072	5.238	1.79
0.91					
7.235	0.071	5.178	0.072	5.225	1.79
0.91					
7.240	0.070	5.165	0.072	5.213	1.79
0.91					

7.245	0.070	5.153	0.071	5.200	1.79
0.91					
7.250	0.070	5.140	0.071	5.187	1.79
0.91					
7.255	0.069	5.128	0.071	5.175	1.79
0.91					
7.260	0.069	5.115	0.070	5.162	1.79
0.91					
7.265	0.069	5.103	0.070	5.150	1.79
0.91					
7.270	0.068	5.091	0.070	5.137	1.80
0.91					
7.275	0.068	5.078	0.069	5.125	1.80
0.91					
7.280	0.068	5.066	0.069	5.112	1.80
0.91					
7.285	0.067	5.053	0.069	5.100	1.80
0.91					
7.290	0.067	5.041	0.068	5.088	1.80
0.91					
7.295	0.067	5.029	0.068	5.075	1.80
0.91					
7.300	0.066	5.017	0.068	5.063	1.80
0.91					
7.305	0.066	5.004	0.067	5.051	1.80
0.91					
7.310	0.066	4.992	0.067	5.038	1.81
0.91					
7.315	0.065	4.980	0.067	5.026	1.81
0.91					
7.320	0.065	4.968	0.066	5.014	1.81
0.91					
7.325	0.065	4.956	0.066	5.002	1.81
0.91					
7.330	0.064	4.944	0.066	4.989	1.81
0.91					
7.335	0.064	4.932	0.065	4.977	1.81
0.91					
7.340	0.064	4.920	0.065	4.965	1.81
0.91					
7.345	0.063	4.908	0.065	4.953	1.81
0.92					
7.350	0.063	4.896	0.064	4.941	1.81
0.92					
7.355	0.063	4.884	0.064	4.929	1.82
0.92					
7.360	0.062	4.872	0.064	4.917	1.82
0.92					
7.365	0.062	4.860	0.063	4.905	1.82
0.92					

7.370	0.062	4.848	0.063	4.893	1.82
0.92					
7.375	0.062	4.836	0.063	4.881	1.82
0.92					
7.380	0.061	4.825	0.062	4.869	1.82
0.92					
7.385	0.061	4.813	0.062	4.858	1.82
0.92					
7.390	0.061	4.801	0.062	4.846	1.82
0.92					
7.395	0.060	4.790	0.061	4.834	1.83
0.92					
7.400	0.060	4.778	0.061	4.822	1.83
0.92					
7.405	0.060	4.766	0.061	4.810	1.83
0.92					
7.410	0.059	4.755	0.061	4.799	1.83
0.92					
7.415	0.059	4.743	0.060	4.787	1.83
0.92					
7.420	0.059	4.731	0.060	4.775	1.83
0.92					
7.425	0.059	4.720	0.060	4.764	1.83
0.92					
7.430	0.058	4.708	0.059	4.752	1.83
0.92					
7.435	0.058	4.697	0.059	4.741	1.84
0.92					
7.440	0.058	4.685	0.059	4.729	1.84
0.92					
7.445	0.057	4.674	0.058	4.718	1.84
0.92					
7.450	0.057	4.663	0.058	4.706	1.84
0.92					
7.455	0.057	4.651	0.058	4.695	1.84
0.92					
7.460	0.056	4.640	0.058	4.683	1.84
0.92					
7.465	0.056	4.629	0.057	4.672	1.84
0.92					
7.470	0.056	4.617	0.057	4.660	1.84
0.92					
7.475	0.056	4.606	0.057	4.649	1.85
0.92					
7.480	0.055	4.595	0.056	4.638	1.85
0.93					
7.485	0.055	4.584	0.056	4.626	1.85
0.93					
7.490	0.055	4.572	0.056	4.615	1.85
0.93					

7.495	0.055	4.561	0.056	4.604	1.85
0.93					
7.500	0.054	4.550	0.055	4.593	1.85
0.93					
7.505	0.054	4.539	0.055	4.581	1.85
0.93					
7.510	0.054	4.528	0.055	4.570	1.85
0.93					
7.515	0.053	4.517	0.054	4.559	1.86
0.93					
7.520	0.053	4.506	0.054	4.548	1.86
0.93					
7.525	0.053	4.495	0.054	4.537	1.86
0.93					
7.530	0.053	4.484	0.054	4.526	1.86
0.93					
7.535	0.052	4.473	0.053	4.515	1.86
0.93					
7.540	0.052	4.462	0.053	4.504	1.86
0.93					
7.545	0.052	4.451	0.053	4.493	1.86
0.93					
7.550	0.052	4.440	0.053	4.482	1.86
0.93					
7.555	0.051	4.429	0.052	4.471	1.86
0.93					
7.560	0.051	4.419	0.052	4.460	1.87
0.93					
7.565	0.051	4.408	0.052	4.449	1.87
0.93					
7.570	0.051	4.397	0.052	4.438	1.87
0.93					
7.575	0.050	4.386	0.051	4.428	1.87
0.93					
7.580	0.050	4.376	0.051	4.417	1.87
0.93					
7.585	0.050	4.365	0.051	4.406	1.87
0.93					
7.590	0.050	4.354	0.051	4.395	1.87
0.93					
7.595	0.049	4.344	0.050	4.384	1.87
0.93					
7.600	0.049	4.333	0.050	4.374	1.88
0.93					
7.605	0.049	4.322	0.050	4.363	1.88
0.93					
7.610	0.049	4.312	0.050	4.352	1.88
0.93					
7.615	0.048	4.301	0.049	4.342	1.88
0.93					

7.620	0.048	4.291	0.049	4.331	1.88
0.94					
7.625	0.048	4.280	0.049	4.321	1.88
0.94					
7.630	0.048	4.270	0.049	4.310	1.88
0.94					
7.635	0.047	4.259	0.048	4.300	1.88
0.94					
7.640	0.047	4.249	0.048	4.289	1.89
0.94					
7.645	0.047	4.239	0.048	4.279	1.89
0.94					
7.650	0.047	4.228	0.048	4.268	1.89
0.94					
7.655	0.046	4.218	0.047	4.258	1.89
0.94					
7.660	0.046	4.208	0.047	4.247	1.89
0.94					
7.665	0.046	4.197	0.047	4.237	1.89
0.94					
7.670	0.046	4.187	0.047	4.227	1.89
0.94					
7.675	0.046	4.177	0.046	4.216	1.89
0.94					
7.680	0.045	4.167	0.046	4.206	1.90
0.94					
7.685	0.045	4.156	0.046	4.196	1.90
0.94					
7.690	0.045	4.146	0.046	4.186	1.90
0.94					
7.695	0.045	4.136	0.046	4.175	1.90
0.94					
7.700	0.044	4.126	0.045	4.165	1.90
0.94					
7.705	0.044	4.116	0.045	4.155	1.90
0.94					
7.710	0.044	4.106	0.045	4.145	1.90
0.94					
7.715	0.044	4.096	0.045	4.135	1.90
0.94					
7.720	0.044	4.086	0.044	4.125	1.91
0.94					
7.725	0.043	4.076	0.044	4.114	1.91
0.94					
7.730	0.043	4.066	0.044	4.104	1.91
0.94					
7.735	0.043	4.056	0.044	4.094	1.91
0.94					
7.740	0.043	4.046	0.044	4.084	1.91
0.94					

7.745	0.042	4.036	0.043	4.074	1.91
0.94					
7.750	0.042	4.026	0.043	4.064	1.91
0.94					
7.755	0.042	4.016	0.043	4.055	1.91
0.95					
7.760	0.042	4.006	0.043	4.045	1.91
0.95					
7.765	0.042	3.997	0.042	4.035	1.92
0.95					
7.770	0.041	3.987	0.042	4.025	1.92
0.95					
7.775	0.041	3.977	0.042	4.015	1.92
0.95					
7.780	0.041	3.967	0.042	4.005	1.92
0.95					
7.785	0.041	3.958	0.042	3.995	1.92
0.95					
7.790	0.041	3.948	0.041	3.986	1.92
0.95					
7.795	0.040	3.938	0.041	3.976	1.92
0.95					
7.800	0.040	3.929	0.041	3.966	1.92
0.95					
7.805	0.040	3.919	0.041	3.956	1.93
0.95					
7.810	0.040	3.909	0.041	3.947	1.93
0.95					
7.815	0.040	3.900	0.040	3.937	1.93
0.95					
7.820	0.039	3.890	0.040	3.928	1.93
0.95					
7.825	0.039	3.881	0.040	3.918	1.93
0.95					
7.830	0.039	3.871	0.040	3.908	1.93
0.95					
7.835	0.039	3.862	0.040	3.899	1.93
0.95					
7.840	0.039	3.852	0.039	3.889	1.93
0.95					
7.845	0.038	3.843	0.039	3.880	1.94
0.95					
7.850	0.038	3.833	0.039	3.870	1.94
0.95					
7.855	0.038	3.824	0.039	3.861	1.94
0.95					
7.860	0.038	3.815	0.039	3.851	1.94
0.95					
7.865	0.038	3.805	0.038	3.842	1.94
0.95					

7.870	0.037	3.796	0.038	3.832	1.94
0.95					
7.875	0.037	3.787	0.038	3.823	1.94
0.95					
7.880	0.037	3.777	0.038	3.814	1.94
0.95					
7.885	0.037	3.768	0.038	3.804	1.95
0.95					
7.890	0.037	3.759	0.037	3.795	1.95
0.95					
7.895	0.037	3.750	0.037	3.786	1.95
0.96					
7.900	0.036	3.740	0.037	3.777	1.95
0.96					
7.905	0.036	3.731	0.037	3.767	1.95
0.96					
7.910	0.036	3.722	0.037	3.758	1.95
0.96					
7.915	0.036	3.713	0.037	3.749	1.95
0.96					
7.920	0.036	3.704	0.036	3.740	1.95
0.96					
7.925	0.035	3.695	0.036	3.731	1.96
0.96					
7.930	0.035	3.686	0.036	3.721	1.96
0.96					
7.935	0.035	3.677	0.036	3.712	1.96
0.96					
7.940	0.035	3.668	0.036	3.703	1.96
0.96					
7.945	0.035	3.659	0.035	3.694	1.96
0.96					
7.950	0.035	3.650	0.035	3.685	1.96
0.96					
7.955	0.034	3.641	0.035	3.676	1.96
0.96					
7.960	0.034	3.632	0.035	3.667	1.96
0.96					
7.965	0.034	3.623	0.035	3.658	1.96
0.96					
7.970	0.034	3.614	0.035	3.649	1.97
0.96					
7.975	0.034	3.605	0.034	3.640	1.97
0.96					
7.980	0.034	3.596	0.034	3.631	1.97
0.96					
7.985	0.033	3.588	0.034	3.622	1.97
0.96					
7.990	0.033	3.579	0.034	3.613	1.97
0.96					

7.995	0.033	3.570	0.034	3.605	1.97
0.96					
8.000	0.033	3.561	0.034	3.596	1.97
0.96					
8.005	0.033	3.552	0.033	3.587	1.97
0.96					
8.010	0.033	3.544	0.033	3.578	1.98
0.96					
8.015	0.032	3.535	0.033	3.569	1.98
0.96					
8.020	0.032	3.526	0.033	3.561	1.98
0.96					
8.025	0.032	3.518	0.033	3.552	1.98
0.96					
8.030	0.032	3.509	0.033	3.543	1.98
0.96					
8.035	0.032	3.500	0.032	3.535	1.98
0.97					
8.040	0.032	3.492	0.032	3.526	1.98
0.97					
8.045	0.031	3.483	0.032	3.517	1.98
0.97					
8.050	0.031	3.475	0.032	3.509	1.99
0.97					
8.055	0.031	3.466	0.032	3.500	1.99
0.97					
8.060	0.031	3.458	0.032	3.491	1.99
0.97					
8.065	0.031	3.449	0.031	3.483	1.99
0.97					
8.070	0.031	3.441	0.031	3.474	1.99
0.97					
8.075	0.030	3.432	0.031	3.466	1.99
0.97					
8.080	0.030	3.424	0.031	3.457	1.99
0.97					
8.085	0.030	3.415	0.031	3.449	1.99
0.97					
8.090	0.030	3.407	0.031	3.440	2.00
0.97					
8.095	0.030	3.399	0.031	3.432	2.00
0.97					
8.100	0.030	3.390	0.030	3.424	2.00
0.97					
8.105	0.030	3.382	0.030	3.415	2.00
0.97					
8.110	0.029	3.374	0.030	3.407	2.00
0.97					
8.115	0.029	3.365	0.030	3.398	2.00
0.97					

8.120	0.029	3.357	0.030	3.390	2.00
0.97					
8.125	0.029	3.349	0.030	3.382	2.00
0.97					
8.130	0.029	3.341	0.029	3.373	2.01
0.97					
8.135	0.029	3.332	0.029	3.365	2.01
0.97					
8.140	0.029	3.324	0.029	3.357	2.01
0.97					
8.145	0.028	3.316	0.029	3.349	2.01
0.97					
8.150	0.028	3.308	0.029	3.340	2.01
0.97					
8.155	0.028	3.300	0.029	3.332	2.01
0.97					
8.160	0.028	3.292	0.029	3.324	2.01
0.97					
8.165	0.028	3.284	0.028	3.316	2.01
0.97					
8.170	0.028	3.276	0.028	3.308	2.01
0.97					
8.175	0.028	3.267	0.028	3.300	2.02
0.98					
8.180	0.027	3.259	0.028	3.292	2.02
0.98					
8.185	0.027	3.251	0.028	3.284	2.02
0.98					
8.190	0.027	3.243	0.028	3.275	2.02
0.98					
8.195	0.027	3.235	0.028	3.267	2.02
0.98					
8.200	0.027	3.228	0.027	3.259	2.02
0.98					
8.205	0.027	3.220	0.027	3.251	2.02
0.98					
8.210	0.027	3.212	0.027	3.243	2.02
0.98					
8.215	0.027	3.204	0.027	3.235	2.03
0.98					
8.220	0.026	3.196	0.027	3.227	2.03
0.98					
8.225	0.026	3.188	0.027	3.220	2.03
0.98					
8.230	0.026	3.180	0.027	3.212	2.03
0.98					
8.235	0.026	3.172	0.027	3.204	2.03
0.98					
8.240	0.026	3.165	0.026	3.196	2.03
0.98					

8.245	0.026	3.157	0.026	3.188	2.03
0.98					
8.250	0.026	3.149	0.026	3.180	2.03
0.98					
8.255	0.025	3.141	0.026	3.172	2.04
0.98					
8.260	0.025	3.134	0.026	3.165	2.04
0.98					
8.265	0.025	3.126	0.026	3.157	2.04
0.98					
8.270	0.025	3.118	0.026	3.149	2.04
0.98					
8.275	0.025	3.111	0.025	3.141	2.04
0.98					
8.280	0.025	3.103	0.025	3.134	2.04
0.98					
8.285	0.025	3.095	0.025	3.126	2.04
0.98					
8.290	0.025	3.088	0.025	3.118	2.04
0.98					
8.295	0.024	3.080	0.025	3.111	2.05
0.98					
8.300	0.024	3.072	0.025	3.103	2.05
0.98					
8.305	0.024	3.065	0.025	3.095	2.05
0.98					
8.310	0.024	3.057	0.025	3.088	2.05
0.98					
8.315	0.024	3.050	0.024	3.080	2.05
0.99					
8.320	0.024	3.042	0.024	3.073	2.05
0.99					
8.325	0.024	3.035	0.024	3.065	2.05
0.99					
8.330	0.024	3.027	0.024	3.057	2.05
0.99					
8.335	0.024	3.020	0.024	3.050	2.05
0.99					
8.340	0.023	3.012	0.024	3.042	2.06
0.99					
8.345	0.023	3.005	0.024	3.035	2.06
0.99					
8.350	0.023	2.998	0.024	3.028	2.06
0.99					
8.355	0.023	2.990	0.024	3.020	2.06
0.99					
8.360	0.023	2.983	0.023	3.013	2.06
0.99					
8.365	0.023	2.976	0.023	3.005	2.06
0.99					

8.370	0.023	2.968	0.023	2.998	2.06
0.99					
8.375	0.023	2.961	0.023	2.991	2.06
0.99					
8.380	0.022	2.954	0.023	2.983	2.07
0.99					
8.385	0.022	2.946	0.023	2.976	2.07
0.99					
8.390	0.022	2.939	0.023	2.969	2.07
0.99					
8.395	0.022	2.932	0.023	2.961	2.07
0.99					
8.400	0.022	2.925	0.022	2.954	2.07
0.99					
8.405	0.022	2.917	0.022	2.947	2.07
0.99					
8.410	0.022	2.910	0.022	2.939	2.07
0.99					
8.415	0.022	2.903	0.022	2.932	2.07
0.99					
8.420	0.022	2.896	0.022	2.925	2.08
0.99					
8.425	0.021	2.889	0.022	2.918	2.08
0.99					
8.430	0.021	2.882	0.022	2.911	2.08
0.99					
8.435	0.021	2.875	0.022	2.903	2.08
0.99					
8.440	0.021	2.868	0.022	2.896	2.08
0.99					
8.445	0.021	2.860	0.021	2.889	2.08
0.99					
8.450	0.021	2.853	0.021	2.882	2.08
0.99					
8.455	0.021	2.846	0.021	2.875	2.08
0.99					
8.460	0.021	2.839	0.021	2.868	2.09
1.00					
8.465	0.021	2.832	0.021	2.861	2.09
1.00					
8.470	0.021	2.825	0.021	2.854	2.09
1.00					
8.475	0.020	2.818	0.021	2.847	2.09
1.00					
8.480	0.020	2.811	0.021	2.840	2.09
1.00					
8.485	0.020	2.805	0.021	2.833	2.09
1.00					
8.490	0.020	2.798	0.021	2.826	2.09
1.00					

8.495	0.020	2.791	0.020	2.819	2.09
1.00					
8.500	0.020	2.784	0.020	2.812	2.10
1.00					
8.505	0.020	2.777	0.020	2.805	2.10
1.00					
8.510	0.020	2.770	0.020	2.798	2.10
1.00					
8.515	0.020	2.763	0.020	2.791	2.10
1.00					
8.520	0.020	2.757	0.020	2.784	2.10
1.00					
8.525	0.019	2.750	0.020	2.778	2.10
1.00					
8.530	0.019	2.743	0.020	2.771	2.10
1.00					
8.535	0.019	2.736	0.020	2.764	2.10
1.00					
8.540	0.019	2.729	0.020	2.757	2.10
1.00					
8.545	0.019	2.723	0.019	2.750	2.11
1.00					
8.550	0.019	2.716	0.019	2.744	2.11
1.00					
8.555	0.019	2.709	0.019	2.737	2.11
1.00					
8.560	0.019	2.703	0.019	2.730	2.11
1.00					
8.565	0.019	2.696	0.019	2.723	2.11
1.00					
8.570	0.019	2.689	0.019	2.717	2.11
1.00					
8.575	0.018	2.683	0.019	2.710	2.11
1.00					
8.580	0.018	2.676	0.019	2.703	2.11
1.00					
8.585	0.018	2.669	0.019	2.697	2.12
1.00					
8.590	0.018	2.663	0.019	2.690	2.12
1.00					
8.595	0.018	2.656	0.019	2.683	2.12
1.00					
8.600	0.018	2.650	0.018	2.677	2.12
1.01					
8.605	0.018	2.643	0.018	2.670	2.12
1.01					
8.610	0.018	2.637	0.018	2.664	2.12
1.01					
8.615	0.018	2.630	0.018	2.657	2.12
1.01					

8.620	0.018	2.624	0.018	2.650	2.12
1.01					
8.625	0.018	2.617	0.018	2.644	2.13
1.01					
8.630	0.017	2.611	0.018	2.637	2.13
1.01					
8.635	0.017	2.604	0.018	2.631	2.13
1.01					
8.640	0.017	2.598	0.018	2.624	2.13
1.01					
8.645	0.017	2.592	0.018	2.618	2.13
1.01					
8.650	0.017	2.585	0.018	2.611	2.13
1.01					
8.655	0.017	2.579	0.017	2.605	2.13
1.01					
8.660	0.017	2.572	0.017	2.599	2.13
1.01					
8.665	0.017	2.566	0.017	2.592	2.14
1.01					
8.670	0.017	2.560	0.017	2.586	2.14
1.01					
8.675	0.017	2.553	0.017	2.579	2.14
1.01					
8.680	0.017	2.547	0.017	2.573	2.14
1.01					
8.685	0.017	2.541	0.017	2.567	2.14
1.01					
8.690	0.016	2.535	0.017	2.560	2.14
1.01					
8.695	0.016	2.528	0.017	2.554	2.14
1.01					
8.700	0.016	2.522	0.017	2.548	2.14
1.01					
8.705	0.016	2.516	0.017	2.542	2.14
1.01					
8.710	0.016	2.510	0.016	2.535	2.15
1.01					
8.715	0.016	2.503	0.016	2.529	2.15
1.01					
8.720	0.016	2.497	0.016	2.523	2.15
1.01					
8.725	0.016	2.491	0.016	2.517	2.15
1.01					
8.730	0.016	2.485	0.016	2.510	2.15
1.01					
8.735	0.016	2.479	0.016	2.504	2.15
1.01					
8.740	0.016	2.473	0.016	2.498	2.15
1.01					

8.745	0.016	2.467	0.016	2.492	2.15
1.02					
8.750	0.016	2.461	0.016	2.486	2.16
1.02					
8.755	0.015	2.454	0.016	2.480	2.16
1.02					
8.760	0.015	2.448	0.016	2.474	2.16
1.02					
8.765	0.015	2.442	0.016	2.467	2.16
1.02					
8.770	0.015	2.436	0.016	2.461	2.16
1.02					
8.775	0.015	2.430	0.015	2.455	2.16
1.02					
8.780	0.015	2.424	0.015	2.449	2.16
1.02					
8.785	0.015	2.418	0.015	2.443	2.16
1.02					
8.790	0.015	2.412	0.015	2.437	2.17
1.02					
8.795	0.015	2.406	0.015	2.431	2.17
1.02					
8.800	0.015	2.400	0.015	2.425	2.17
1.02					
8.805	0.015	2.395	0.015	2.419	2.17
1.02					
8.810	0.015	2.389	0.015	2.413	2.17
1.02					
8.815	0.015	2.383	0.015	2.407	2.17
1.02					
8.820	0.014	2.377	0.015	2.401	2.17
1.02					
8.825	0.014	2.371	0.015	2.395	2.17
1.02					
8.830	0.014	2.365	0.015	2.389	2.18
1.02					
8.835	0.014	2.359	0.015	2.384	2.18
1.02					
8.840	0.014	2.353	0.014	2.378	2.18
1.02					
8.845	0.014	2.348	0.014	2.372	2.18
1.02					
8.850	0.014	2.342	0.014	2.366	2.18
1.02					
8.855	0.014	2.336	0.014	2.360	2.18
1.02					
8.860	0.014	2.330	0.014	2.354	2.18
1.02					
8.865	0.014	2.324	0.014	2.349	2.18
1.02					

8.870	0.014	2.319	0.014	2.343	2.19 1.02
8.875	0.014	2.313	0.014	2.337	2.19 1.02
8.880	0.014	2.307	0.014	2.331	2.19 1.02
8.885	0.014	2.302	0.014	2.325	2.19 1.02
8.890	0.013	2.296	0.014	2.320	2.19 1.03
8.895	0.013	2.290	0.014	2.314	2.19 1.03
8.900	0.013	2.285	0.014	2.308	2.19 1.03
8.905	0.013	2.279	0.014	2.303	2.19 1.03
8.910	0.013	2.273	0.014	2.297	2.19 1.03
8.915	0.013	2.268	0.013	2.291	2.20 1.03
8.920	0.013	2.262	0.013	2.286	2.20 1.03
8.925	0.013	2.256	0.013	2.280	2.20 1.03
8.930	0.013	2.251	0.013	2.274	2.20 1.03
8.935	0.013	2.245	0.013	2.269	2.20 1.03
8.940	0.013	2.240	0.013	2.263	2.20 1.03
8.945	0.013	2.234	0.013	2.257	2.20 1.03
8.950	0.013	2.229	0.013	2.252	2.20 1.03
8.955	0.013	2.223	0.013	2.246	2.21 1.03
8.960	0.013	2.218	0.013	2.241	2.21 1.03
8.965	0.012	2.212	0.013	2.235	2.21 1.03
8.970	0.012	2.207	0.013	2.230	2.21 1.03
8.975	0.012	2.201	0.013	2.224	2.21 1.03
8.980	0.012	2.196	0.013	2.219	2.21 1.03
8.985	0.012	2.190	0.013	2.213	2.21 1.03
8.990	0.012	2.185	0.012	2.208	2.21 1.03

8.995	0.012	2.180	0.012	2.202	2.22 1.03
9.000	0.012	2.174	0.012	2.197	2.22 1.03
9.005	0.012	2.169	0.012	2.192	2.22 1.03
9.010	0.012	2.164	0.012	2.186	2.22 1.03
9.015	0.012	2.158	0.012	2.181	2.22 1.03
9.020	0.012	2.153	0.012	2.175	2.22 1.03
9.025	0.012	2.148	0.012	2.170	2.22 1.03
9.030	0.012	2.142	0.012	2.165	2.22 1.03
9.035	0.012	2.137	0.012	2.159	2.23 1.03
9.040	0.012	2.132	0.012	2.154	2.23 1.04
9.045	0.012	2.126	0.012	2.149	2.23 1.04
9.050	0.011	2.121	0.012	2.143	2.23 1.04
9.055	0.011	2.116	0.012	2.138	2.23 1.04
9.060	0.011	2.111	0.012	2.133	2.23 1.04
9.065	0.011	2.105	0.012	2.127	2.23 1.04
9.070	0.011	2.100	0.012	2.122	2.23 1.04
9.075	0.011	2.095	0.011	2.117	2.23 1.04
9.080	0.011	2.090	0.011	2.112	2.24 1.04
9.085	0.011	2.085	0.011	2.107	2.24 1.04
9.090	0.011	2.079	0.011	2.101	2.24 1.04
9.095	0.011	2.074	0.011	2.096	2.24 1.04
9.100	0.011	2.069	0.011	2.091	2.24 1.04
9.105	0.011	2.064	0.011	2.086	2.24 1.04
9.110	0.011	2.059	0.011	2.081	2.24 1.04
9.115	0.011	2.054	0.011	2.075	2.24 1.04

9.120	0.011	2.049	0.011	2.070	2.25
1.04					
9.125	0.011	2.044	0.011	2.065	2.25
1.04					
9.130	0.011	2.039	0.011	2.060	2.25
1.04					
9.135	0.011	2.034	0.011	2.055	2.25
1.04					
9.140	0.010	2.029	0.011	2.050	2.25
1.04					
9.145	0.010	2.024	0.011	2.045	2.25
1.04					
9.150	0.010	2.019	0.011	2.040	2.25
1.04					
9.155	0.010	2.014	0.011	2.035	2.25
1.04					
9.160	0.010	2.009	0.011	2.030	2.26
1.04					
9.165	0.010	2.004	0.010	2.025	2.26
1.04					
9.170	0.010	1.999	0.010	2.020	2.26
1.04					
9.175	0.010	1.994	0.010	2.015	2.26
1.04					
9.180	0.010	1.989	0.010	2.010	2.26
1.04					
9.185	0.010	1.984	0.010	2.005	2.26
1.05					
9.190	0.010	1.979	0.010	2.000	2.26
1.05					
9.195	0.010	1.974	0.010	1.995	2.26
1.05					
9.200	0.010	1.969	0.010	1.990	2.27
1.05					
9.205	0.010	1.964	0.010	1.985	2.27
1.05					
9.210	0.010	1.959	0.010	1.980	2.27
1.05					
9.215	0.010	1.955	0.010	1.975	2.27
1.05					
9.220	0.010	1.950	0.010	1.970	2.27
1.05					
9.225	0.010	1.945	0.010	1.966	2.27
1.05					
9.230	0.010	1.940	0.010	1.961	2.27
1.05					
9.235	0.010	1.935	0.010	1.956	2.27
1.05					
9.240	0.009	1.931	0.010	1.951	2.28
1.05					

9.245	0.009	1.926	0.010	1.946	2.28
1.05					
9.250	0.009	1.921	0.010	1.941	2.28
1.05					
9.255	0.009	1.916	0.010	1.937	2.28
1.05					
9.260	0.009	1.911	0.010	1.932	2.28
1.05					
9.265	0.009	1.907	0.009	1.927	2.28
1.05					
9.270	0.009	1.902	0.009	1.922	2.28
1.05					
9.275	0.009	1.897	0.009	1.917	2.28
1.05					
9.280	0.009	1.893	0.009	1.913	2.28
1.05					
9.285	0.009	1.888	0.009	1.908	2.29
1.05					
9.290	0.009	1.883	0.009	1.903	2.29
1.05					
9.295	0.009	1.879	0.009	1.899	2.29
1.05					
9.300	0.009	1.874	0.009	1.894	2.29
1.05					
9.305	0.009	1.869	0.009	1.889	2.29
1.05					
9.310	0.009	1.865	0.009	1.885	2.29
1.05					
9.315	0.009	1.860	0.009	1.880	2.29
1.05					
9.320	0.009	1.855	0.009	1.875	2.29
1.05					
9.325	0.009	1.851	0.009	1.871	2.30
1.05					
9.330	0.009	1.846	0.009	1.866	2.30
1.05					
9.335	0.009	1.842	0.009	1.861	2.30
1.06					
9.340	0.009	1.837	0.009	1.857	2.30
1.06					
9.345	0.009	1.833	0.009	1.852	2.30
1.06					
9.350	0.008	1.828	0.009	1.848	2.30
1.06					
9.355	0.008	1.824	0.009	1.843	2.30
1.06					
9.360	0.008	1.819	0.009	1.838	2.30
1.06					
9.365	0.008	1.814	0.009	1.834	2.31
1.06					

9.370	0.008	1.810	0.009	1.829	2.31
1.06					
9.375	0.008	1.806	0.008	1.825	2.31
1.06					
9.380	0.008	1.801	0.008	1.820	2.31
1.06					
9.385	0.008	1.797	0.008	1.816	2.31
1.06					
9.390	0.008	1.792	0.008	1.811	2.31
1.06					
9.395	0.008	1.788	0.008	1.807	2.31
1.06					
9.400	0.008	1.783	0.008	1.802	2.31
1.06					
9.405	0.008	1.779	0.008	1.798	2.32
1.06					
9.410	0.008	1.774	0.008	1.793	2.32
1.06					
9.415	0.008	1.770	0.008	1.789	2.32
1.06					
9.420	0.008	1.766	0.008	1.785	2.32
1.06					
9.425	0.008	1.761	0.008	1.780	2.32
1.06					
9.430	0.008	1.757	0.008	1.776	2.32
1.06					
9.435	0.008	1.753	0.008	1.771	2.32
1.06					
9.440	0.008	1.748	0.008	1.767	2.32
1.06					
9.445	0.008	1.744	0.008	1.763	2.32
1.06					
9.450	0.008	1.740	0.008	1.758	2.33
1.06					
9.455	0.008	1.735	0.008	1.754	2.33
1.06					
9.460	0.008	1.731	0.008	1.750	2.33
1.06					
9.465	0.008	1.727	0.008	1.745	2.33
1.06					
9.470	0.008	1.722	0.008	1.741	2.33
1.06					
9.475	0.007	1.718	0.008	1.737	2.33
1.06					
9.480	0.007	1.714	0.008	1.732	2.33
1.06					
9.485	0.007	1.710	0.008	1.728	2.33
1.07					
9.490	0.007	1.705	0.008	1.724	2.34
1.07					

9.495	0.007	1.701	0.008	1.719	2.34
1.07					
9.500	0.007	1.697	0.007	1.715	2.34
1.07					
9.505	0.007	1.693	0.007	1.711	2.34
1.07					
9.510	0.007	1.689	0.007	1.707	2.34
1.07					
9.515	0.007	1.684	0.007	1.703	2.34
1.07					
9.520	0.007	1.680	0.007	1.698	2.34
1.07					
9.525	0.007	1.676	0.007	1.694	2.34
1.07					
9.530	0.007	1.672	0.007	1.690	2.35
1.07					
9.535	0.007	1.668	0.007	1.686	2.35
1.07					
9.540	0.007	1.664	0.007	1.682	2.35
1.07					
9.545	0.007	1.659	0.007	1.677	2.35
1.07					
9.550	0.007	1.655	0.007	1.673	2.35
1.07					
9.555	0.007	1.651	0.007	1.669	2.35
1.07					
9.560	0.007	1.647	0.007	1.665	2.35
1.07					
9.565	0.007	1.643	0.007	1.661	2.35
1.07					
9.570	0.007	1.639	0.007	1.657	2.36
1.07					
9.575	0.007	1.635	0.007	1.653	2.36
1.07					
9.580	0.007	1.631	0.007	1.649	2.36
1.07					
9.585	0.007	1.627	0.007	1.644	2.36
1.07					
9.590	0.007	1.623	0.007	1.640	2.36
1.07					
9.595	0.007	1.619	0.007	1.636	2.36
1.07					
9.600	0.007	1.615	0.007	1.632	2.36
1.07					
9.605	0.007	1.611	0.007	1.628	2.36
1.07					
9.610	0.007	1.607	0.007	1.624	2.36
1.07					
9.615	0.007	1.603	0.007	1.620	2.37
1.07					

9.620	0.006	1.599	0.007	1.616	2.37
1.07					
9.625	0.006	1.595	0.007	1.612	2.37
1.07					
9.630	0.006	1.591	0.007	1.608	2.37
1.07					
9.635	0.006	1.587	0.007	1.604	2.37
1.08					
9.640	0.006	1.583	0.007	1.600	2.37
1.08					
9.645	0.006	1.579	0.006	1.596	2.37
1.08					
9.650	0.006	1.575	0.006	1.592	2.37
1.08					
9.655	0.006	1.571	0.006	1.588	2.38
1.08					
9.660	0.006	1.567	0.006	1.584	2.38
1.08					
9.665	0.006	1.563	0.006	1.580	2.38
1.08					
9.670	0.006	1.560	0.006	1.577	2.38
1.08					
9.675	0.006	1.556	0.006	1.573	2.38
1.08					
9.680	0.006	1.552	0.006	1.569	2.38
1.08					
9.685	0.006	1.548	0.006	1.565	2.38
1.08					
9.690	0.006	1.544	0.006	1.561	2.38
1.08					
9.695	0.006	1.540	0.006	1.557	2.39
1.08					
9.700	0.006	1.537	0.006	1.553	2.39
1.08					
9.705	0.006	1.533	0.006	1.549	2.39
1.08					
9.710	0.006	1.529	0.006	1.546	2.39
1.08					
9.715	0.006	1.525	0.006	1.542	2.39
1.08					
9.720	0.006	1.521	0.006	1.538	2.39
1.08					
9.725	0.006	1.518	0.006	1.534	2.39
1.08					
9.730	0.006	1.514	0.006	1.530	2.39
1.08					
9.735	0.006	1.510	0.006	1.527	2.40
1.08					
9.740	0.006	1.506	0.006	1.523	2.40
1.08					

9.745	0.006	1.503	0.006	1.519	2.40
1.08					
9.750	0.006	1.499	0.006	1.515	2.40
1.08					
9.755	0.006	1.495	0.006	1.511	2.40
1.08					
9.760	0.006	1.491	0.006	1.508	2.40
1.08					
9.765	0.006	1.488	0.006	1.504	2.40
1.08					
9.770	0.006	1.484	0.006	1.500	2.40
1.08					
9.775	0.006	1.480	0.006	1.497	2.40
1.08					
9.780	0.006	1.477	0.006	1.493	2.41
1.08					
9.785	0.005	1.473	0.006	1.489	2.41
1.09					
9.790	0.005	1.469	0.006	1.485	2.41
1.09					
9.795	0.005	1.466	0.006	1.482	2.41
1.09					
9.800	0.005	1.462	0.006	1.478	2.41
1.09					
9.805	0.005	1.458	0.006	1.474	2.41
1.09					
9.810	0.005	1.455	0.005	1.471	2.41
1.09					
9.815	0.005	1.451	0.005	1.467	2.41
1.09					
9.820	0.005	1.448	0.005	1.463	2.42
1.09					
9.825	0.005	1.444	0.005	1.460	2.42
1.09					
9.830	0.005	1.440	0.005	1.456	2.42
1.09					
9.835	0.005	1.437	0.005	1.453	2.42
1.09					
9.840	0.005	1.433	0.005	1.449	2.42
1.09					
9.845	0.005	1.430	0.005	1.445	2.42
1.09					
9.850	0.005	1.426	0.005	1.442	2.42
1.09					
9.855	0.005	1.423	0.005	1.438	2.42
1.09					
9.860	0.005	1.419	0.005	1.435	2.43
1.09					
9.865	0.005	1.416	0.005	1.431	2.43
1.09					

9.870	0.005	1.412	0.005	1.428	2.43
1.09					
9.875	0.005	1.409	0.005	1.424	2.43
1.09					
9.880	0.005	1.405	0.005	1.421	2.43
1.09					
9.885	0.005	1.402	0.005	1.417	2.43
1.09					
9.890	0.005	1.398	0.005	1.414	2.43
1.09					
9.895	0.005	1.395	0.005	1.410	2.43
1.09					
9.900	0.005	1.391	0.005	1.407	2.44
1.09					
9.905	0.005	1.388	0.005	1.403	2.44
1.09					
9.910	0.005	1.384	0.005	1.400	2.44
1.09					
9.915	0.005	1.381	0.005	1.396	2.44
1.09					
9.920	0.005	1.377	0.005	1.393	2.44
1.09					
9.925	0.005	1.374	0.005	1.389	2.44
1.09					
9.930	0.005	1.371	0.005	1.386	2.44
1.09					
9.935	0.005	1.367	0.005	1.382	2.44
1.10					
9.940	0.005	1.364	0.005	1.379	2.44
1.10					
9.945	0.005	1.360	0.005	1.375	2.45
1.10					
9.950	0.005	1.357	0.005	1.372	2.45
1.10					
9.955	0.005	1.354	0.005	1.369	2.45
1.10					
9.960	0.005	1.350	0.005	1.365	2.45
1.10					
9.965	0.005	1.347	0.005	1.362	2.45
1.10					
9.970	0.005	1.344	0.005	1.358	2.45
1.10					
9.975	0.005	1.340	0.005	1.355	2.45
1.10					
9.980	0.005	1.337	0.005	1.352	2.45
1.10					
9.985	0.004	1.334	0.005	1.348	2.46
1.10					
9.990	0.004	1.330	0.005	1.345	2.46
1.10					

```
9.995       0.004     1.327     0.005          1.342        2.46
1.10
# Average Error of A =  1.24
# Average Error of B =  0.69
```

```
       JobID    JobName      User  Partition   NodeList AllocNodes
NTask NCPUS  ReqMem  MaxVMSize      State    CPUTime    Elapsed
Timelimit ExitCode
------------ ---------- --------- ---------- ---------- ----------
----- ----- ------- ---------- ---------- ---------- ----------
---------- --------
14275            qlogin  spm09163 interacti+      tcn26          1
1     2Gn            FAILED       01:34:51   01:34:51   08:00:00
0:9
14275.extern     extern                             tcn26          1
1     1     2Gn    142620K COMPLETED    01:34:51   01:34:51
0:0
14275.0          qlogin                             tcn26          1
1     1     2Gn    299536K CANCELLED+   01:34:51   01:34:51
0:9
14276            qlogin  spm09163 interacti+      tcn26          1
1     2Gn            RUNNING      04:09:20   04:09:20   08:00:00
0:0
14276.extern     extern                             tcn26          1
1     1     2Gn            RUNNING      04:09:20   04:09:20
0:0
14276.0          qlogin                             tcn26          1
1     1     2Gn            RUNNING      04:09:20   04:09:20
0:0
14277              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:27   00:00:27   00:01:00
0:0
14277.batch       batch                             tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:27   00:00:27
0:0
14277.extern     extern                             tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:27   00:00:27
0:0
14278              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:23   00:00:23   00:01:00
0:0
14278.batch       batch                             tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:23   00:00:23
0:0
14278.extern     extern                             tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:23   00:00:23
0:0
14279              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:21   00:00:21   00:01:00
0:0
14279.batch       batch                             tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:21   00:00:21
0:0
14279.extern     extern                             tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:21   00:00:21
```

```
0:0
14280              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:22   00:00:22   00:01:00
0:0
14280.batch       batch                            tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:22   00:00:22
0:0
14280.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:22   00:00:22
0:0
14281              test  spm09163    fsr4601      tcn18          1
1     2Gn            TIMEOUT      00:01:14   00:01:14   00:01:00
0:0
14281.batch       batch                            tcn18          1
1     1     2Gn    143096K CANCELLED    00:01:15   00:01:15
0:15
14281.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:01:14   00:01:14
0:0
14282              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:24   00:00:24   00:01:00
0:0
14282.batch       batch                            tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:24   00:00:24
0:0
14282.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:24   00:00:24
0:0
14283              test  spm09163    fsr4601      tcn18          1
1     2Gn            FAILED       00:00:32   00:00:32   00:01:00
2:0
14283.batch       batch                            tcn18          1
1     1     2Gn    158092K FAILED       00:00:32   00:00:32
2:0
14283.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:32   00:00:32
0:0
14284              test  spm09163    fsr4601      tcn18          1
1     2Gn            FAILED       00:00:24   00:00:24   00:01:00
2:0
14284.batch       batch                            tcn18          1
1     1     2Gn    143096K FAILED       00:00:24   00:00:24
2:0
14284.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:24   00:00:24
0:0
14285              test  spm09163    fsr4601      tcn18          1
1     2Gn            FAILED       00:00:20   00:00:20   00:01:00
2:0
14285.batch       batch                            tcn18          1
```

```
1     1     2Gn    143096K FAILED       00:00:20   00:00:20
2:0
14285.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:20   00:00:20
0:0
14286              test  spm09163    fsr4601      tcn18          1
1     2Gn            FAILED       00:00:18   00:00:18   00:01:00
2:0
14286.batch       batch                            tcn18          1
1     1     2Gn    143096K FAILED       00:00:18   00:00:18
2:0
14286.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:18   00:00:18
0:0
14287              test  spm09163    fsr4601      tcn18          1
1     2Gn            FAILED       00:00:19   00:00:19   00:01:00
2:0
14287.batch       batch                            tcn18          1
1     1     2Gn    143096K FAILED       00:00:19   00:00:19
2:0
14287.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:19   00:00:19
0:0
14288              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:22   00:00:22   00:01:00
0:0
14288.batch       batch                            tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:22   00:00:22
0:0
14288.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:22   00:00:22
0:0
14289              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:21   00:00:21   00:01:00
0:0
14289.batch       batch                            tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:21   00:00:21
0:0
14289.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:21   00:00:21
0:0
14290              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:17   00:00:17   00:01:00
0:0
14290.batch       batch                            tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:17   00:00:17
0:0
14290.extern     extern                            tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:17   00:00:17
0:0
```

```
14291              test  spm09163    fsr4601      tcn18          1
1     2Gn           TIMEOUT      00:01:17   00:01:17   00:01:00
0:0
14291.batch       batch                           tcn18          1
1     1     2Gn    143096K CANCELLED    00:01:19   00:01:19
0:15
14291.extern     extern                           tcn18          1
1     1     2Gn    142620K COMPLETED    00:01:18   00:01:18
0:0
14292              test  spm09163    fsr4601      tcn18          1
1     2Gn           COMPLETED    00:00:12   00:00:12   00:01:00
0:0
14292.batch       batch                           tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:12   00:00:12
0:0
14292.extern     extern                           tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:12   00:00:12
0:0
14293              test  spm09163    fsr4601      tcn18          1
1     2Gn           COMPLETED    00:00:13   00:00:13   00:01:00
0:0
14293.batch       batch                           tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:13   00:00:13
0:0
14293.extern     extern                           tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:14   00:00:14
0:0
14294              test  spm09163    fsr4601      tcn18          1
1     2Gn           COMPLETED    00:00:15   00:00:15   00:01:00
0:0
14294.batch       batch                           tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:15   00:00:15
0:0
14294.extern     extern                           tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:15   00:00:15
0:0
14295              test  spm09163    fsr4601      tcn18          1
1     2Gn           COMPLETED    00:00:16   00:00:16   00:01:00
0:0
14295.batch       batch                           tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:16   00:00:16
0:0
14295.extern     extern                           tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:16   00:00:16
0:0
14296              test  spm09163    fsr4601      tcn18          1
1     2Gn           COMPLETED    00:00:19   00:00:19   00:01:00
0:0
14296.batch       batch                           tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:19   00:00:19
```

```
0:0
14296.extern     extern                             tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:19   00:00:19
0:0
14297              test  spm09163    fsr4601      tcn18          1
1     2Gn            COMPLETED    00:00:23   00:00:23   00:01:00
0:0
14297.batch       batch                             tcn18          1
1     1     2Gn    143096K COMPLETED    00:00:23   00:00:23
0:0
14297.extern     extern                             tcn18          1
1     1     2Gn    142620K COMPLETED    00:00:23   00:00:23
0:0
```

```
real    0m0.281s
user    0m0.020s
sys     0m0.005s
```