







GNU Octave, version 3.8.2

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Octave was configured for "x86_64-pc-linux-gnu".

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a = 1.000000

l = 1.000000

T = 0.200000

$\varepsilon =$

1.0000e-10

n = 10

k = 10

hx = 0.100000

ht = 0.020000

Всего демпферов: 2

Демпфер # 1

x_1 = 0.250000

Верхнее предельное значение w_1(t) =
NaN

Нижнее предельное значение w_1(t) =
NaN

Управляющая функция w_1(t):

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

9
10
11

Демпфер # 2

$x_2 = 0.750000$

Верхнее предельное значение $w_2(t) =$
NaN

Нижнее предельное значение $w_2(t) =$
NaN

Управляющая функция $w_2(t)$:

12
13
14
15
16
17
18
19
20
21
22

$E(T) =$
1.7056

Using Marquardt minimization

Iteration 0/100 error:
1.7056

Iteration 0/100 gradient:

-0.0058627
-0.0093817
-0.0047147
0.0057861
0.0268427
0.0467109
0.0537315
0.0439587
0.0350220
0.0318522
0.0139073
0.0078830

0.0209542
0.0238657
0.0193104
0.0173581
0.0192091
0.0236819
0.0219403
0.0383482
0.0587455
0.0290225

Iteration 0/100 gradient norm:
0.13876

Iteration 1/100 Hessian matrix:
Columns 1 through 6:

3.6855e-04	6.9325e-04	4.6587e-04	7.8271e-05	-2.1390e-04	-2.6101e-04
6.9325e-04	1.4615e-03	1.0754e-03	1.8734e-04	-3.9548e-04	-6.6434e-04
4.6587e-04	1.0754e-03	1.0616e-03	5.1805e-04	-1.9305e-04	-7.4114e-04
7.8271e-05	1.8734e-04	5.1805e-04	6.8683e-04	1.6831e-04	-4.4795e-04
-2.1390e-04	-3.9548e-04	-1.9305e-04	1.6831e-04	4.1873e-04	3.9568e-04
-2.6101e-04	-6.6434e-04	-7.4114e-04	-4.4795e-04	3.9568e-04	1.3082e-03
-3.4035e-04	-8.0638e-04	-9.0423e-04	-5.2036e-04	4.2026e-04	1.4490e-03
-4.8599e-04	-9.5659e-04	-6.7195e-04	-1.9829e-05	5.7008e-04	8.4011e-04
-1.5585e-04	-2.8775e-04	8.6020e-05	4.7176e-04	3.6640e-04	9.8299e-05
3.1406e-04	8.1035e-04	8.5980e-04	4.9281e-04	8.2379e-06	-2.9079e-04
2.5835e-04	5.9961e-04	5.3020e-04	2.1401e-04	-1.5876e-05	-1.1240e-04
-6.3594e-05	-1.7872e-04	-3.3640e-04	-3.2312e-04	8.2268e-05	5.5476e-04
-1.8749e-04	-5.3328e-04	-8.1775e-04	-6.9291e-04	2.3270e-04	1.1571e-03
-3.4859e-04	-8.4373e-04	-8.3746e-04	-3.5867e-04	3.3986e-04	9.6128e-04
-3.2137e-04	-6.8490e-04	-3.5132e-04	2.2744e-04	3.7788e-04	3.3489e-04
5.6688e-05	2.1618e-04	3.3062e-04	3.8203e-04	1.6944e-04	-1.6802e-04
5.2351e-04	1.1412e-03	9.6705e-04	3.3151e-04	-1.6935e-04	-3.2276e-04
5.3106e-04	1.1906e-03	1.0937e-03	4.0612e-04	-1.3294e-04	-3.4448e-04
1.6511e-04	5.1854e-04	7.6514e-04	7.1290e-04	1.9451e-04	-4.3172e-04
-2.8006e-04	-4.7036e-04	-6.2550e-05	4.5439e-04	4.8639e-04	3.0547e-04
-4.6438e-04	-9.4744e-04	-8.0329e-04	-2.5775e-04	5.8193e-04	1.3396e-03
-1.4522e-04	-4.0214e-04	-4.5488e-04	-2.1847e-04	2.5875e-04	7.9048e-04

Columns 7 through 12:

-3.4035e-04	-4.8599e-04	-1.5585e-04	3.1406e-04	2.5835e-04	-6.3594e-05
-8.0638e-04	-9.5659e-04	-2.8775e-04	8.1035e-04	5.9961e-04	-1.7872e-04
-9.0423e-04	-6.7195e-04	8.6020e-05	8.5980e-04	5.3020e-04	-3.3640e-04
-5.2036e-04	-1.9829e-05	4.7176e-04	4.9281e-04	2.1401e-04	-3.2312e-04
4.2026e-04	5.7008e-04	3.6640e-04	8.2379e-06	-1.5876e-05	8.2268e-05
1.4490e-03	8.4011e-04	9.8299e-05	-2.9079e-04	-1.1240e-04	5.5476e-04
1.6643e-03	9.9936e-04	2.3623e-04	-2.1445e-04	-1.4437e-04	5.0613e-04

9.9936e-04	1.1334e-03	6.3474e-04	-8.2889e-05	-1.2124e-04	1.5195e-04
2.3623e-04	6.3474e-04	9.6905e-04	7.8899e-04	2.8995e-04	-2.7576e-04
-2.1445e-04	-8.2889e-05	7.8899e-04	1.6288e-03	8.6853e-04	-4.6114e-04
-1.4437e-04	-1.2124e-04	2.8995e-04	8.6853e-04	5.3064e-04	-1.6591e-04
5.0613e-04	1.5195e-04	-2.7576e-04	-4.6114e-04	-1.6591e-04	3.7894e-04
1.1767e-03	4.8115e-04	-4.8634e-04	-9.5652e-04	-3.9897e-04	6.9993e-04
1.0690e-03	7.1834e-04	-4.1522e-05	-8.2578e-04	-4.4684e-04	4.4875e-04
3.7788e-04	6.9442e-04	4.4111e-04	-2.6856e-04	-2.1882e-04	8.0957e-05
-1.5552e-04	1.5790e-04	4.8659e-04	5.7327e-04	2.7078e-04	-2.0599e-04
-3.6207e-04	-4.4815e-04	3.1672e-04	1.3219e-03	7.8830e-04	-2.5515e-04
-3.8300e-04	-4.3929e-04	4.1560e-04	1.5181e-03	8.9848e-04	-3.0220e-04
-4.2888e-04	3.8458e-05	7.6077e-04	1.1945e-03	6.0125e-04	-4.5119e-04
4.1198e-04	7.4054e-04	8.9113e-04	5.7225e-04	2.0737e-04	-1.5270e-04
1.5228e-03	1.1840e-03	5.8094e-04	9.8832e-05	-5.5511e-07	3.3302e-04
8.7732e-04	5.7037e-04	1.8965e-04	-1.6498e-05	1.7031e-05	2.5080e-04

Columns 13 through 18:

-1.8749e-04	-3.4859e-04	-3.2137e-04	5.6688e-05	5.2351e-04	5.3106e-04
-5.3328e-04	-8.4373e-04	-6.8490e-04	2.1618e-04	1.1412e-03	1.1906e-03
-8.1775e-04	-8.3746e-04	-3.5132e-04	3.3062e-04	9.6705e-04	1.0937e-03
-6.9291e-04	-3.5867e-04	2.2744e-04	3.8203e-04	3.3151e-04	4.0612e-04
2.3270e-04	3.3986e-04	3.7788e-04	1.6944e-04	-1.6935e-04	-1.3294e-04
1.1571e-03	9.6128e-04	3.3489e-04	-1.6802e-04	-3.2276e-04	-3.4448e-04
1.1767e-03	1.0690e-03	3.7788e-04	-1.5552e-04	-3.6207e-04	-3.8300e-04
4.8115e-04	7.1834e-04	6.9442e-04	1.5790e-04	-4.4815e-04	-4.3929e-04
-4.8634e-04	-4.1522e-05	4.4111e-04	4.8659e-04	3.1672e-04	4.1560e-04
-9.5652e-04	-8.2578e-04	-2.6856e-04	5.7327e-04	1.3219e-03	1.5181e-03
-3.9897e-04	-4.4684e-04	-2.1882e-04	2.7078e-04	7.8830e-04	8.9848e-04
6.9993e-04	4.4875e-04	8.0957e-05	-2.0599e-04	-2.5515e-04	-3.0220e-04
1.4545e-03	1.0664e-03	1.9402e-04	-4.1798e-04	-6.6027e-04	-7.8462e-04
1.0664e-03	1.0385e-03	5.1121e-04	-2.1194e-04	-7.5246e-04	-9.1318e-04
1.9402e-04	5.1121e-04	6.8141e-04	1.6049e-04	-4.6514e-04	-4.9971e-04
-4.1798e-04	-2.1194e-04	1.6049e-04	3.9910e-04	3.7548e-04	4.1560e-04
-6.6027e-04	-7.5246e-04	-4.6514e-04	3.7548e-04	1.2985e-03	1.4639e-03
-7.8462e-04	-9.1318e-04	-4.9971e-04	4.1560e-04	1.4639e-03	1.6989e-03
-9.3612e-04	-6.7086e-04	-1.9118e-05	5.9341e-04	8.5856e-04	1.0296e-03
-2.7685e-04	9.2770e-05	4.7684e-04	3.7124e-04	1.2867e-04	2.4984e-04
8.2017e-04	8.5261e-04	4.9853e-04	3.5971e-06	-2.8315e-04	-2.0965e-04
5.9261e-04	5.2829e-04	1.9311e-04	-3.6082e-05	-1.4539e-04	-1.3374e-04

Columns 19 through 22:

1.6511e-04	-2.8006e-04	-4.6438e-04	-1.4522e-04
5.1854e-04	-4.7036e-04	-9.4744e-04	-4.0214e-04
7.6514e-04	-6.2550e-05	-8.0329e-04	-4.5488e-04
7.1290e-04	4.5439e-04	-2.5775e-04	-2.1847e-04
1.9451e-04	4.8639e-04	5.8193e-04	2.5875e-04
-4.3172e-04	3.0547e-04	1.3396e-03	7.9048e-04

-4.2888e-04	4.1198e-04	1.5228e-03	8.7732e-04
3.8458e-05	7.4054e-04	1.1840e-03	5.7037e-04
7.6077e-04	8.9113e-04	5.8094e-04	1.8965e-04
1.1945e-03	5.7225e-04	9.8832e-05	-1.6498e-05
6.0125e-04	2.0737e-04	-5.5511e-07	1.7031e-05
-4.5119e-04	-1.5270e-04	3.3302e-04	2.5080e-04
-9.3612e-04	-2.7685e-04	8.2017e-04	5.9261e-04
-6.7086e-04	9.2770e-05	8.5261e-04	5.2829e-04
-1.9118e-05	4.7684e-04	4.9853e-04	1.9311e-04
5.9341e-04	3.7124e-04	3.5971e-06	-3.6082e-05
8.5856e-04	1.2867e-04	-2.8315e-04	-1.4539e-04
1.0296e-03	2.4984e-04	-2.0965e-04	-1.3374e-04
1.1812e-03	6.7519e-04	-4.6985e-05	-1.0769e-04
6.7519e-04	9.7824e-04	7.9643e-04	3.0689e-04
-4.6985e-05	7.9643e-04	1.6701e-03	8.7388e-04
-1.0769e-04	3.0689e-04	8.7388e-04	5.2953e-04

Positive Hessian matrix

Iteration 1/100 μ :
1.6989

Iteration 1/100 d:

0.0034186
0.0054566
0.0027280
-0.0034050
-0.0157384
-0.0273804
-0.0314942
-0.0257607
-0.0205339
-0.0187043
-0.0081666
-0.0046186
-0.0122795
-0.0139804
-0.0113125
-0.0101929
-0.0113014
-0.0139256
-0.0128837
-0.0224792
-0.0344265
-0.0170046

$\mu = 1.698885 / 2 \rightarrow 0.849443$

Iteration 1/100 $w(t)$:

1.0034	11.9954
2.0055	12.9877
3.0027	13.9860
3.9966	14.9887
4.9843	15.9898
5.9726	16.9887
6.9685	17.9861
7.9742	18.9871
8.9795	19.9775
9.9813	20.9656
10.9918	21.9830

Iteration 1/100 error:
1.6944

Iteration 1/100 gradient:

-0.0058051
-0.0092680
-0.0046311
0.0057911
0.0267414
0.0465184
0.0535027
0.0437612
0.0348859
0.0317733
0.0138820
0.0078517
0.0208646
0.0237522
0.0192232
0.0173176
0.0192006
0.0236593
0.0218922
0.0381929
0.0584875
0.0288944

Iteration 1/100 gradient norm:
0.13821

Iteration 2/100 Hessian matrix:
Columns 1 through 6:

3.2079e-04	6.8103e-04	4.5608e-04	2.7089e-05	-2.2349e-04	-2.7884e-04
6.8103e-04	1.4603e-03	1.0584e-03	1.7686e-04	-3.8183e-04	-6.3687e-04
4.5608e-04	1.0584e-03	1.0324e-03	4.8364e-04	-1.9078e-04	-7.2520e-04
2.7089e-05	1.7686e-04	4.8364e-04	6.7513e-04	1.3742e-04	-4.5941e-04

-2.2349e-04	-3.8183e-04	-1.9078e-04	1.3742e-04	4.1580e-04	4.0461e-04
-2.7884e-04	-6.3687e-04	-7.2520e-04	-4.5941e-04	4.0461e-04	1.3391e-03
-3.5416e-04	-8.0553e-04	-8.9924e-04	-5.2474e-04	4.2422e-04	1.4491e-03
-5.0608e-04	-9.5186e-04	-6.8714e-04	-5.7110e-05	5.7332e-04	8.7572e-04
-2.0617e-04	-3.0329e-04	6.4837e-05	4.5626e-04	3.6302e-04	9.3126e-05
3.4246e-04	8.4404e-04	8.5654e-04	5.0511e-04	3.4084e-05	-2.4729e-04
2.1776e-04	5.8897e-04	5.0344e-04	1.7857e-04	-4.5630e-05	-1.0889e-04
-1.0223e-04	-2.0783e-04	-3.2701e-04	-3.3578e-04	7.5762e-05	5.3686e-04
-2.3681e-04	-5.3550e-04	-8.3697e-04	-7.1168e-04	2.0395e-04	1.1701e-03
-3.5765e-04	-7.9809e-04	-8.7679e-04	-3.6653e-04	3.2843e-04	9.8916e-04
-3.6036e-04	-6.9715e-04	-3.7357e-04	2.3721e-04	3.9881e-04	3.5048e-04
4.1900e-05	2.0450e-04	3.1706e-04	3.5318e-04	1.5439e-04	-1.7777e-04
5.0662e-04	1.1420e-03	9.7033e-04	3.2014e-04	-1.7051e-04	-3.1941e-04
5.1064e-04	1.2013e-03	1.1041e-03	4.1167e-04	-1.3041e-04	-3.2578e-04
1.6307e-04	5.2582e-04	7.6070e-04	7.0255e-04	2.0108e-04	-4.0332e-04
-2.9732e-04	-4.8208e-04	-7.6139e-05	4.4980e-04	4.8810e-04	3.0993e-04
-4.4218e-04	-9.0301e-04	-7.9328e-04	-2.6008e-04	5.8398e-04	1.3692e-03
-2.1434e-04	-4.2282e-04	-4.7562e-04	-2.6406e-04	2.5233e-04	7.5766e-04

Columns 7 through 12:

-3.5416e-04	-5.0608e-04	-2.0617e-04	3.4246e-04	2.1776e-04	-1.0223e-04
-8.0553e-04	-9.5186e-04	-3.0329e-04	8.4404e-04	5.8897e-04	-2.0783e-04
-8.9924e-04	-6.8714e-04	6.4837e-05	8.5654e-04	5.0344e-04	-3.2701e-04
-5.2474e-04	-5.7110e-05	4.5626e-04	5.0511e-04	1.7857e-04	-3.3578e-04
4.2422e-04	5.7332e-04	3.6302e-04	3.4084e-05	-4.5630e-05	7.5762e-05
1.4491e-03	8.7572e-04	9.3126e-05	-2.4729e-04	-1.0889e-04	5.3686e-04
1.6886e-03	1.0166e-03	2.2000e-04	-1.9007e-04	-1.6995e-04	5.1072e-04
1.0166e-03	1.1460e-03	6.4231e-04	-4.7251e-05	-1.3094e-04	1.7839e-04
2.2000e-04	6.4231e-04	9.1915e-04	7.8650e-04	2.4805e-04	-3.0331e-04
-1.9007e-04	-4.7251e-05	7.8650e-04	1.6772e-03	8.7308e-04	-4.2841e-04
-1.6995e-04	-1.3094e-04	2.4805e-04	8.7308e-04	4.9292e-04	-1.8532e-04
5.1072e-04	1.7839e-04	-3.0331e-04	-4.2841e-04	-1.8532e-04	3.6520e-04
1.1827e-03	5.0697e-04	-5.0311e-04	-9.1147e-04	-4.2304e-04	6.8576e-04
1.0723e-03	7.4596e-04	-5.0382e-05	-7.9643e-04	-4.6594e-04	4.6974e-04
3.8893e-04	6.8932e-04	4.3776e-04	-2.4289e-04	-2.6836e-04	7.0632e-05
-1.6729e-04	1.6926e-04	4.5299e-04	5.7634e-04	2.3928e-04	-2.0661e-04
-3.5381e-04	-4.5481e-04	2.7929e-04	1.3433e-03	7.7824e-04	-2.8928e-04
-3.7370e-04	-4.1140e-04	4.0405e-04	1.5701e-03	8.8618e-04	-3.1608e-04
-4.4011e-04	6.6569e-05	7.5022e-04	1.2092e-03	5.8356e-04	-4.5266e-04
3.8010e-04	7.5915e-04	8.5727e-04	5.7261e-04	1.6793e-04	-1.6644e-04
1.5540e-03	1.2280e-03	5.7312e-04	1.2852e-04	1.8741e-05	3.7423e-04
8.7081e-04	5.7150e-04	1.5765e-04	-2.3737e-05	-1.9895e-05	2.4256e-04

Columns 13 through 18:

-2.3681e-04	-3.5765e-04	-3.6036e-04	4.1900e-05	5.0662e-04	5.1064e-04
-5.3550e-04	-7.9809e-04	-6.9715e-04	2.0450e-04	1.1420e-03	1.2013e-03
-8.3697e-04	-8.7679e-04	-3.7357e-04	3.1706e-04	9.7033e-04	1.1041e-03

-7.1168e-04	-3.6653e-04	2.3721e-04	3.5318e-04	3.2014e-04	4.1167e-04
2.0395e-04	3.2843e-04	3.9881e-04	1.5439e-04	-1.7051e-04	-1.3041e-04
1.1701e-03	9.8916e-04	3.5048e-04	-1.7777e-04	-3.1941e-04	-3.2578e-04
1.1827e-03	1.0723e-03	3.8893e-04	-1.6729e-04	-3.5381e-04	-3.7370e-04
5.0697e-04	7.4596e-04	6.8932e-04	1.6926e-04	-4.5481e-04	-4.1140e-04
-5.0311e-04	-5.0382e-05	4.3776e-04	4.5299e-04	2.7929e-04	4.0405e-04
-9.1147e-04	-7.9643e-04	-2.4289e-04	5.7634e-04	1.3433e-03	1.5701e-03
-4.2304e-04	-4.6594e-04	-2.6836e-04	2.3928e-04	7.7824e-04	8.8618e-04
6.8576e-04	4.6974e-04	7.0632e-05	-2.0661e-04	-2.8928e-04	-3.1608e-04
1.4402e-03	1.0663e-03	1.9007e-04	-4.0274e-04	-6.8225e-04	-7.8897e-04
1.0663e-03	1.0515e-03	5.0495e-04	-2.0766e-04	-7.3019e-04	-8.8847e-04
1.9007e-04	5.0495e-04	6.9706e-04	1.6120e-04	-4.5592e-04	-4.9059e-04
-4.0274e-04	-2.0766e-04	1.6120e-04	3.7721e-04	3.7335e-04	4.2848e-04
-6.8225e-04	-7.3019e-04	-4.5592e-04	3.7335e-04	1.3139e-03	1.4622e-03
-7.8897e-04	-8.8847e-04	-4.9059e-04	4.2848e-04	1.4622e-03	1.6955e-03
-9.1602e-04	-6.6103e-04	-8.5709e-06	5.9053e-04	8.9015e-04	1.0477e-03
-2.9146e-04	7.6539e-05	4.8102e-04	3.7064e-04	8.1202e-05	2.4301e-04
8.5949e-04	8.8407e-04	5.3009e-04	2.0450e-05	-2.5460e-04	-1.6172e-04
5.8480e-04	5.3253e-04	1.7948e-04	-5.5600e-05	-1.5037e-04	-1.2901e-04

Columns 19 through 22:

1.6307e-04	-2.9732e-04	-4.4218e-04	-2.1434e-04
5.2582e-04	-4.8208e-04	-9.0301e-04	-4.2282e-04
7.6070e-04	-7.6139e-05	-7.9328e-04	-4.7562e-04
7.0255e-04	4.4980e-04	-2.6008e-04	-2.6406e-04
2.0108e-04	4.8810e-04	5.8398e-04	2.5233e-04
-4.0332e-04	3.0993e-04	1.3692e-03	7.5766e-04
-4.4011e-04	3.8010e-04	1.5540e-03	8.7081e-04
6.6569e-05	7.5915e-04	1.2280e-03	5.7150e-04
7.5022e-04	8.5727e-04	5.7312e-04	1.5765e-04
1.2092e-03	5.7261e-04	1.2852e-04	-2.3737e-05
5.8356e-04	1.6793e-04	1.8741e-05	-1.9895e-05
-4.5266e-04	-1.6644e-04	3.7423e-04	2.4256e-04
-9.1602e-04	-2.9146e-04	8.5949e-04	5.8480e-04
-6.6103e-04	7.6539e-05	8.8407e-04	5.3253e-04
-8.5709e-06	4.8102e-04	5.3009e-04	1.7948e-04
5.9053e-04	3.7064e-04	2.0450e-05	-5.5600e-05
8.9015e-04	8.1202e-05	-2.5460e-04	-1.5037e-04
1.0477e-03	2.4301e-04	-1.6172e-04	-1.2901e-04
1.1845e-03	6.5969e-04	-3.0975e-05	-1.3558e-04
6.5969e-04	9.4140e-04	8.2310e-04	2.7884e-04
-3.0975e-05	8.2310e-04	1.6976e-03	8.9582e-04
-1.3558e-04	2.7884e-04	8.9582e-04	5.0295e-04

Iteration 2/100 μ :
0.84944

Iteration 2/100 d:

0.0066945
0.0106582
0.0052620
-0.0068222
-0.0312361
-0.0542997
-0.0624539
-0.0510502
-0.0407595
-0.0372091
-0.0162765
-0.0091571
-0.0243430
-0.0276880
-0.0224108
-0.0202919
-0.0225805
-0.0277851
-0.0256443
-0.0445986
-0.0682317
-0.0337113

$$\mu = 0.849443 / 2 \rightarrow 0.424721$$

Iteration 2/100 w(t):

1.0101	11.9862
2.0161	12.9634
3.0080	13.9583
3.9898	14.9663
4.9530	15.9695
5.9183	16.9661
6.9061	17.9583
7.9232	18.9615
8.9387	19.9329
9.9441	20.8973
10.9756	21.9493

Iteration 2/100 error:

1.6722

Iteration 2/100 gradient:

-0.0056913
-0.0090437
-0.0044664
0.0058003
0.0265407
0.0461374
0.0530495

0.0433700
0.0346157
0.0316154
0.0138311
0.0077901
0.0206880
0.0235279
0.0190509
0.0172368
0.0191825
0.0236130
0.0217957
0.0378848
0.0579763
0.0286407

Iteration 2/100 gradient norm:
0.13713

Iteration 3/100 Hessian matrix:
Columns 1 through 6:

3.6988e-04	7.0317e-04	4.6587e-04	9.9387e-05	-1.8705e-04	-2.9665e-04
7.0317e-04	1.4569e-03	1.0630e-03	2.2178e-04	-3.6824e-04	-6.7040e-04
4.6587e-04	1.0630e-03	1.0288e-03	5.1845e-04	-1.8370e-04	-7.6537e-04
9.9387e-05	2.2178e-04	5.1845e-04	7.1441e-04	1.7808e-04	-4.7351e-04
-1.8705e-04	-3.6824e-04	-1.8370e-04	1.7808e-04	4.5965e-04	3.9240e-04
-2.9665e-04	-6.7040e-04	-7.6537e-04	-4.7351e-04	3.9240e-04	1.2688e-03
-3.1917e-04	-7.9892e-04	-9.1835e-04	-5.0255e-04	4.4429e-04	1.4427e-03
-4.7469e-04	-9.2804e-04	-6.5672e-04	-1.1902e-05	5.9772e-04	8.5099e-04
-1.5383e-04	-2.6552e-04	8.7130e-05	5.1092e-04	3.6990e-04	1.1167e-04
3.4122e-04	8.2365e-04	8.5791e-04	4.9536e-04	2.1716e-05	-2.8761e-04
2.6628e-04	5.9093e-04	5.2296e-04	2.0512e-04	-2.2338e-05	-1.6560e-04
-6.1440e-05	-2.0961e-04	-3.4726e-04	-3.3056e-04	7.5606e-05	4.9922e-04
-2.0564e-04	-5.4114e-04	-8.3000e-04	-7.1170e-04	2.1632e-04	1.1061e-03
-3.2265e-04	-8.4006e-04	-8.6002e-04	-3.7812e-04	3.5316e-04	9.2903e-04
-3.0953e-04	-7.0037e-04	-3.8394e-04	2.0528e-04	3.8611e-04	2.9883e-04
6.2217e-05	1.9180e-04	3.1124e-04	3.8249e-04	1.9331e-04	-1.7815e-04
5.3939e-04	1.1440e-03	9.6241e-04	3.5798e-04	-1.3374e-04	-3.4077e-04
4.9585e-04	1.1828e-03	1.0655e-03	3.9200e-04	-1.5354e-04	-3.7086e-04
1.7679e-04	4.9942e-04	7.3079e-04	6.8805e-04	1.9311e-04	-4.7713e-04
-2.7549e-04	-4.7951e-04	-8.9284e-05	4.4595e-04	4.7813e-04	2.8400e-04
-4.5388e-04	-9.4011e-04	-8.2099e-04	-2.8082e-04	5.6919e-04	1.3076e-03
-1.8185e-04	-4.0141e-04	-4.7620e-04	-2.5671e-04	2.5970e-04	7.2693e-04

Columns 7 through 12:

-3.1917e-04	-4.7469e-04	-1.5383e-04	3.4122e-04	2.6628e-04	-6.1440e-05
-7.9892e-04	-9.2804e-04	-2.6552e-04	8.2365e-04	5.9093e-04	-2.0961e-04

-9.1835e-04	-6.5672e-04	8.7130e-05	8.5791e-04	5.2296e-04	-3.4726e-04
-5.0255e-04	-1.1902e-05	5.1092e-04	4.9536e-04	2.0512e-04	-3.3056e-04
4.4429e-04	5.9772e-04	3.6990e-04	2.1716e-05	-2.2338e-05	7.5606e-05
1.4427e-03	8.5099e-04	1.1167e-04	-2.8761e-04	-1.6560e-04	4.9922e-04
1.7043e-03	1.0197e-03	2.6603e-04	-1.9138e-04	-1.3749e-04	5.0404e-04
1.0197e-03	1.1368e-03	6.5956e-04	-7.3785e-05	-1.3511e-04	1.4078e-04
2.6603e-04	6.5956e-04	9.7755e-04	7.9849e-04	2.8324e-04	-2.5788e-04
-1.9138e-04	-7.3785e-05	7.9849e-04	1.6804e-03	8.7568e-04	-4.3747e-04
-1.3749e-04	-1.3511e-04	2.8324e-04	8.7568e-04	5.0764e-04	-1.9975e-04
5.0404e-04	1.4078e-04	-2.5788e-04	-4.3747e-04	-1.9975e-04	3.2339e-04
1.1862e-03	4.7415e-04	-4.8022e-04	-9.3803e-04	-4.2921e-04	6.4890e-04
1.0790e-03	7.3761e-04	-5.6044e-05	-7.9765e-04	-4.5344e-04	4.3197e-04
3.9395e-04	6.6940e-04	4.5317e-04	-2.6459e-04	-2.5013e-04	3.7215e-05
-1.4653e-04	1.8070e-04	4.8583e-04	5.6661e-04	2.5193e-04	-2.3779e-04
-3.3300e-04	-4.1389e-04	3.2503e-04	1.3216e-03	7.7851e-04	-2.7693e-04
-3.9477e-04	-4.6958e-04	3.9573e-04	1.5203e-03	8.8336e-04	-3.2621e-04
-4.3376e-04	2.8777e-05	7.6064e-04	1.2133e-03	5.8009e-04	-4.7533e-04
4.3034e-04	7.2093e-04	8.8947e-04	5.8584e-04	1.8163e-04	-1.7257e-04
1.5314e-03	1.1649e-03	5.8014e-04	1.0119e-04	-4.5741e-05	3.1271e-04
8.7934e-04	5.6612e-04	1.9231e-04	-1.0303e-05	-2.5979e-05	2.1962e-04

Columns 13 through 18:

-2.0564e-04	-3.2265e-04	-3.0953e-04	6.2217e-05	5.3939e-04	4.9585e-04
-5.4114e-04	-8.4006e-04	-7.0037e-04	1.9180e-04	1.1440e-03	1.1828e-03
-8.3000e-04	-8.6002e-04	-3.8394e-04	3.1124e-04	9.6241e-04	1.0655e-03
-7.1170e-04	-3.7812e-04	2.0528e-04	3.8249e-04	3.5798e-04	3.9200e-04
2.1632e-04	3.5316e-04	3.8611e-04	1.9331e-04	-1.3374e-04	-1.5354e-04
1.1061e-03	9.2903e-04	2.9883e-04	-1.7815e-04	-3.4077e-04	-3.7086e-04
1.1862e-03	1.0790e-03	3.9395e-04	-1.4653e-04	-3.3300e-04	-3.9477e-04
4.7415e-04	7.3761e-04	6.6940e-04	1.8070e-04	-4.1389e-04	-4.6958e-04
-4.8022e-04	-5.6044e-05	4.5317e-04	4.8583e-04	3.2503e-04	3.9573e-04
-9.3803e-04	-7.9765e-04	-2.6459e-04	5.6661e-04	1.3216e-03	1.5203e-03
-4.2921e-04	-4.5344e-04	-2.5013e-04	2.5193e-04	7.7851e-04	8.8336e-04
6.4890e-04	4.3197e-04	3.7215e-05	-2.3779e-04	-2.7693e-04	-3.2621e-04
1.4228e-03	1.0420e-03	1.5119e-04	-4.2810e-04	-6.4895e-04	-8.1151e-04
1.0420e-03	1.0386e-03	4.6791e-04	-2.2413e-04	-7.5642e-04	-9.0810e-04
1.5119e-04	4.6791e-04	6.4018e-04	1.2148e-04	-4.7000e-04	-5.1539e-04
-4.2810e-04	-2.2413e-04	1.2148e-04	4.1094e-04	4.1060e-04	4.0468e-04
-6.4895e-04	-7.5642e-04	-4.7000e-04	4.1060e-04	1.3181e-03	1.4473e-03
-8.1151e-04	-9.0810e-04	-5.1539e-04	4.0468e-04	1.4473e-03	1.6557e-03
-9.5819e-04	-6.7855e-04	-5.4223e-05	5.7343e-04	8.5161e-04	1.0210e-03
-3.0085e-04	7.6872e-05	4.7231e-04	3.5469e-04	1.1122e-04	2.1589e-04
7.8859e-04	8.3202e-04	4.5808e-04	5.9952e-06	-2.6796e-04	-2.3206e-04
5.6377e-04	4.7882e-04	1.6085e-04	-5.3779e-05	-1.4562e-04	-1.5654e-04

Columns 19 through 22:

1.7679e-04	-2.7549e-04	-4.5388e-04	-1.8185e-04
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4.9942e-04	-4.7951e-04	-9.4011e-04	-4.0141e-04
7.3079e-04	-8.9284e-05	-8.2099e-04	-4.7620e-04
6.8805e-04	4.4595e-04	-2.8082e-04	-2.5671e-04
1.9311e-04	4.7813e-04	5.6919e-04	2.5970e-04
-4.7713e-04	2.8400e-04	1.3076e-03	7.2693e-04
-4.3376e-04	4.3034e-04	1.5314e-03	8.7934e-04
2.8777e-05	7.2093e-04	1.1649e-03	5.6612e-04
7.6064e-04	8.8947e-04	5.8014e-04	1.9231e-04
1.2133e-03	5.8584e-04	1.0119e-04	-1.0303e-05
5.8009e-04	1.8163e-04	-4.5741e-05	-2.5979e-05
-4.7533e-04	-1.7257e-04	3.1271e-04	2.1962e-04
-9.5819e-04	-3.0085e-04	7.8859e-04	5.6377e-04
-6.7855e-04	7.6872e-05	8.3202e-04	4.7882e-04
-5.4223e-05	4.7231e-04	4.5808e-04	1.6085e-04
5.7343e-04	3.5469e-04	5.9952e-06	-5.3779e-05
8.5161e-04	1.1122e-04	-2.6796e-04	-1.4562e-04
1.0210e-03	2.1589e-04	-2.3206e-04	-1.5654e-04
1.1658e-03	6.6456e-04	-8.7907e-05	-1.3682e-04
6.6456e-04	9.4378e-04	7.6001e-04	2.6428e-04
-8.7907e-05	7.6001e-04	1.6327e-03	8.3562e-04
-1.3682e-04	2.6428e-04	8.3562e-04	4.7524e-04

Iteration 3/100 μ :
0.42472

Iteration 3/100 d:

0.0129129
0.0202950
0.0097569
-0.0136532
-0.0615101
-0.1069107
-0.1227920
-0.1003306
-0.0802163
-0.0736897
-0.0323102
-0.0180646
-0.0479205
-0.0543810
-0.0440726
-0.0402008
-0.0450414
-0.0554130
-0.0508692
-0.0877855
-0.1341917
-0.0662792

$$\mu = 0.424721 / 2 \rightarrow 0.212361$$

Iteration 3/100 w(t):

1.0230	11.9682
2.0364	12.9155
3.0177	13.9040
3.9761	14.9222
4.8915	15.9293
5.8114	16.9211
6.7833	17.9029
7.8229	18.9106
8.8585	19.8451
9.8704	20.7632
10.9432	21.8830

Iteration 3/100 error:

1.6289

Iteration 3/100 gradient:

-0.0054693
-0.0086068
-0.0041465
0.0058168
0.0261463
0.0453899
0.0521603
0.0426022
0.0340829
0.0312998
0.0137282
0.0076704
0.0203438
0.0230902
0.0187136
0.0170762
0.0191421
0.0235164
0.0216022
0.0372781
0.0569724
0.0281427

Iteration 3/100 gradient norm:

0.13500

Iteration 4/100 Hessian matrix:

Columns 1 through 6:

3.3378e-04 6.5181e-04 4.3356e-04 3.3618e-05 -2.6288e-04 -3.1148e-04

6.5181e-04	1.4586e-03	1.0346e-03	1.5195e-04	-4.1582e-04	-6.7364e-04
4.3356e-04	1.0346e-03	1.0254e-03	4.5983e-04	-2.0717e-04	-7.8380e-04
3.3618e-05	1.5195e-04	4.5983e-04	6.2990e-04	1.2419e-04	-5.1135e-04
-2.6288e-04	-4.1582e-04	-2.0717e-04	1.2419e-04	3.9793e-04	3.6162e-04
-3.1148e-04	-6.7364e-04	-7.8380e-04	-5.1135e-04	3.6162e-04	1.2799e-03
-3.3162e-04	-7.9314e-04	-9.0092e-04	-5.1048e-04	4.5270e-04	1.4547e-03
-5.1625e-04	-9.6541e-04	-6.8254e-04	-7.1765e-05	5.5771e-04	8.2363e-04
-1.5135e-04	-2.6401e-04	9.9742e-05	4.8990e-04	3.9599e-04	1.2315e-04
3.4119e-04	8.2268e-04	8.6855e-04	4.8872e-04	6.9056e-06	-2.8264e-04
2.1445e-04	5.5664e-04	4.9323e-04	1.3460e-04	-7.4318e-05	-1.9251e-04
-8.5354e-05	-2.2622e-04	-3.5634e-04	-3.6779e-04	4.1722e-05	4.7344e-04
-2.3948e-04	-5.7854e-04	-8.5925e-04	-7.6341e-04	1.6951e-04	1.0691e-03
-3.6280e-04	-8.5794e-04	-8.7812e-04	-4.3485e-04	3.1462e-04	9.1269e-04
-3.3344e-04	-7.1307e-04	-3.8967e-04	1.7295e-04	3.5973e-04	3.0453e-04
4.2566e-05	1.9380e-04	3.3584e-04	3.4497e-04	1.6396e-04	-2.0677e-04
4.9623e-04	1.0927e-03	9.5488e-04	3.0203e-04	-1.7524e-04	-3.2243e-04
4.9190e-04	1.1878e-03	1.0686e-03	3.8998e-04	-1.6642e-04	-3.5727e-04
1.5887e-04	4.9369e-04	7.4905e-04	6.5661e-04	1.7097e-04	-4.7569e-04
-2.6610e-04	-4.6696e-04	-5.5844e-05	4.2815e-04	4.8306e-04	3.0900e-04
-4.5031e-04	-9.3590e-04	-7.9976e-04	-2.9179e-04	5.6763e-04	1.3162e-03
-2.1665e-04	-4.4977e-04	-4.9591e-04	-3.0502e-04	2.3685e-04	7.1538e-04

Columns 7 through 12:

-3.3162e-04	-5.1625e-04	-1.5135e-04	3.4119e-04	2.1445e-04	-8.5354e-05
-7.9314e-04	-9.6541e-04	-2.6401e-04	8.2268e-04	5.5664e-04	-2.2622e-04
-9.0092e-04	-6.8254e-04	9.9742e-05	8.6855e-04	4.9323e-04	-3.5634e-04
-5.1048e-04	-7.1765e-05	4.8990e-04	4.8872e-04	1.3460e-04	-3.6779e-04
4.5270e-04	5.5771e-04	3.9599e-04	6.9056e-06	-7.4318e-05	4.1722e-05
1.4547e-03	8.2363e-04	1.2315e-04	-2.8264e-04	-1.9251e-04	4.7344e-04
1.7118e-03	1.0487e-03	2.7605e-04	-1.9855e-04	-1.4784e-04	4.8144e-04
1.0487e-03	1.1347e-03	6.8445e-04	-5.4090e-05	-1.8106e-04	1.3254e-04
2.7605e-04	6.8445e-04	9.8643e-04	8.0400e-04	2.9594e-04	-2.5009e-04
-1.9855e-04	-5.4090e-05	8.0400e-04	1.6812e-03	8.5649e-04	-4.4991e-04
-1.4784e-04	-1.8106e-04	2.9594e-04	8.5649e-04	4.6740e-04	-2.0672e-04
4.8144e-04	1.3254e-04	-2.5009e-04	-4.4991e-04	-2.0672e-04	3.1610e-04
1.1794e-03	4.6296e-04	-4.7518e-04	-9.3787e-04	-4.8450e-04	6.3187e-04
1.0848e-03	7.1558e-04	-5.4690e-05	-7.9778e-04	-4.9014e-04	4.2657e-04
4.1471e-04	6.7066e-04	4.7140e-04	-2.4938e-04	-2.8035e-04	4.9916e-05
-1.5228e-04	1.7608e-04	4.9991e-04	5.4583e-04	2.2813e-04	-2.4525e-04
-3.3296e-04	-4.5015e-04	3.3706e-04	1.3372e-03	7.2873e-04	-3.0043e-04
-3.6982e-04	-4.3332e-04	4.2479e-04	1.5400e-03	8.6111e-04	-3.2856e-04
-4.2701e-04	3.2219e-05	7.6668e-04	1.2031e-03	5.7567e-04	-5.0069e-04
4.3041e-04	7.5346e-04	8.9544e-04	5.9721e-04	1.8368e-04	-1.6143e-04
1.5448e-03	1.1825e-03	5.9770e-04	1.1062e-04	-5.1603e-05	3.1295e-04
8.6655e-04	5.4214e-04	1.9234e-04	-4.5408e-05	-6.7191e-05	1.9038e-04

Columns 13 through 18:

-2.3948e-04	-3.6280e-04	-3.3344e-04	4.2566e-05	4.9623e-04	4.9190e-04
-5.7854e-04	-8.5794e-04	-7.1307e-04	1.9380e-04	1.0927e-03	1.1878e-03
-8.5925e-04	-8.7812e-04	-3.8967e-04	3.3584e-04	9.5488e-04	1.0686e-03
-7.6341e-04	-4.3485e-04	1.7295e-04	3.4497e-04	3.0203e-04	3.8998e-04
1.6951e-04	3.1462e-04	3.5973e-04	1.6396e-04	-1.7524e-04	-1.6642e-04
1.0691e-03	9.1269e-04	3.0453e-04	-2.0677e-04	-3.2243e-04	-3.5727e-04
1.1794e-03	1.0848e-03	4.1471e-04	-1.5228e-04	-3.3296e-04	-3.6982e-04
4.6296e-04	7.1558e-04	6.7066e-04	1.7608e-04	-4.5015e-04	-4.3332e-04
-4.7518e-04	-5.4690e-05	4.7140e-04	4.9991e-04	3.3706e-04	4.2479e-04
-9.3787e-04	-7.9778e-04	-2.4938e-04	5.4583e-04	1.3372e-03	1.5400e-03
-4.8450e-04	-4.9014e-04	-2.8035e-04	2.2813e-04	7.2873e-04	8.6111e-04
6.3187e-04	4.2657e-04	4.9916e-05	-2.4525e-04	-3.0043e-04	-3.2856e-04
1.3777e-03	1.0022e-03	1.3916e-04	-4.4813e-04	-6.9051e-04	-8.0984e-04
1.0022e-03	1.0299e-03	4.7284e-04	-2.3477e-04	-7.8673e-04	-9.1334e-04
1.3916e-04	4.7284e-04	6.6736e-04	1.3007e-04	-4.6478e-04	-5.0455e-04
-4.4813e-04	-2.3477e-04	1.3007e-04	3.7801e-04	3.8129e-04	4.1422e-04
-6.9051e-04	-7.8673e-04	-4.6478e-04	3.8129e-04	1.3177e-03	1.4420e-03
-8.0984e-04	-9.1334e-04	-5.0455e-04	4.1422e-04	1.4420e-03	1.6741e-03
-9.6323e-04	-6.6864e-04	-2.7667e-05	5.5083e-04	8.4566e-04	1.0378e-03
-2.7307e-04	9.6412e-05	4.9998e-04	3.6302e-04	1.3713e-04	2.6050e-04
7.9081e-04	8.6240e-04	4.8819e-04	-4.1300e-06	-2.5862e-04	-1.9458e-04
5.1810e-04	4.6074e-04	1.4002e-04	-7.8160e-05	-1.7695e-04	-1.7151e-04

Columns 19 through 22:

1.5887e-04	-2.6610e-04	-4.5031e-04	-2.1665e-04
4.9369e-04	-4.6696e-04	-9.3590e-04	-4.4977e-04
7.4905e-04	-5.5844e-05	-7.9976e-04	-4.9591e-04
6.5661e-04	4.2815e-04	-2.9179e-04	-3.0502e-04
1.7097e-04	4.8306e-04	5.6763e-04	2.3685e-04
-4.7569e-04	3.0900e-04	1.3162e-03	7.1538e-04
-4.2701e-04	4.3041e-04	1.5448e-03	8.6655e-04
3.2219e-05	7.5346e-04	1.1825e-03	5.4214e-04
7.6668e-04	8.9544e-04	5.9770e-04	1.9234e-04
1.2031e-03	5.9721e-04	1.1062e-04	-4.5408e-05
5.7567e-04	1.8368e-04	-5.1603e-05	-6.7191e-05
-5.0069e-04	-1.6143e-04	3.1295e-04	1.9038e-04
-9.6323e-04	-2.7307e-04	7.9081e-04	5.1810e-04
-6.6864e-04	9.6412e-05	8.6240e-04	4.6074e-04
-2.7667e-05	4.9998e-04	4.8819e-04	1.4002e-04
5.5083e-04	3.6302e-04	-4.1300e-06	-7.8160e-05
8.4566e-04	1.3713e-04	-2.5862e-04	-1.7695e-04
1.0378e-03	2.6050e-04	-1.9458e-04	-1.7151e-04
1.1443e-03	6.6918e-04	-5.3224e-05	-1.6369e-04
6.6918e-04	9.7897e-04	7.8544e-04	2.4627e-04
-5.3224e-05	7.8544e-04	1.6463e-03	8.4137e-04
-1.6369e-04	2.4627e-04	8.4137e-04	4.3305e-04

Iteration 4/100 μ :

0.21236

Iteration 4/100 d:

0.023697
0.036610
0.016666
-0.027681
-0.119541
-0.207140
-0.237414
-0.193723
-0.155361
-0.144393
-0.063856
-0.035194
-0.092967
-0.104918
-0.085014
-0.079032
-0.089638
-0.109744
-0.099902
-0.169878
-0.259210
-0.128280

$\mu = 0.212361 / 2 \rightarrow 0.106180$

Iteration 4/100 w(t):

1.0467	11.9330
2.0730	12.8225
3.0344	13.7990
3.9484	14.8372
4.7720	15.8503
5.6043	16.8314
6.5458	17.7931
7.6291	18.8107
8.7031	19.6753
9.7260	20.5039
10.8794	21.7547

Iteration 4/100 error:

1.5469

Iteration 4/100 gradient:

-0.0050472
-0.0077782
-0.0035430
0.0058419

0.0253857
0.0439518
0.0504489
0.0411244
0.0330473
0.0306703
0.0135184
0.0074444
0.0196905
0.0222563
0.0180676
0.0167591
0.0190453
0.0233087
0.0212136
0.0361023
0.0550371
0.0271833

Iteration 4/100 gradient norm:
0.13090

Iteration 5/100 Hessian matrix:
Columns 1 through 6:

3.0498e-04	6.6309e-04	4.2288e-04	4.2988e-05	-2.5624e-04	-3.1080e-04
6.6309e-04	1.4273e-03	1.0437e-03	1.7597e-04	-4.2706e-04	-6.9484e-04
4.2288e-04	1.0437e-03	1.0205e-03	4.7620e-04	-2.3952e-04	-7.8362e-04
4.2988e-05	1.7597e-04	4.7620e-04	6.5492e-04	1.3052e-04	-4.9947e-04
-2.5624e-04	-4.2706e-04	-2.3952e-04	1.3052e-04	3.7732e-04	3.6318e-04
-3.1080e-04	-6.9484e-04	-7.8362e-04	-4.9947e-04	3.6318e-04	1.2800e-03
-3.3189e-04	-7.9501e-04	-9.1609e-04	-5.0875e-04	4.4136e-04	1.4533e-03
-4.8450e-04	-9.3603e-04	-6.7926e-04	-2.2271e-05	5.9146e-04	8.5618e-04
-1.6989e-04	-2.8062e-04	7.7827e-05	4.9052e-04	3.7255e-04	1.0005e-04
3.4885e-04	8.4031e-04	8.3971e-04	4.7644e-04	-1.6165e-05	-2.7414e-04
2.1876e-04	5.8158e-04	4.9993e-04	1.7855e-04	-3.7970e-05	-1.5070e-04
-9.7011e-05	-2.1108e-04	-3.3147e-04	-3.2061e-04	7.6827e-05	5.1088e-04
-2.4110e-04	-5.6339e-04	-8.6486e-04	-7.3141e-04	1.9391e-04	1.1126e-03
-3.6742e-04	-8.5296e-04	-8.7454e-04	-3.8605e-04	3.0749e-04	9.4031e-04
-3.4956e-04	-7.1971e-04	-3.7674e-04	2.0319e-04	3.6917e-04	3.0400e-04
6.1773e-05	2.0364e-04	3.2596e-04	3.7863e-04	1.6751e-04	-1.7295e-04
4.8046e-04	1.1020e-03	9.3399e-04	2.8950e-04	-1.9245e-04	-3.4168e-04
4.7593e-04	1.1659e-03	1.0468e-03	3.7712e-04	-1.6576e-04	-3.6602e-04
1.3098e-04	5.0508e-04	7.1307e-04	6.6347e-04	1.6196e-04	-4.4620e-04
-2.8171e-04	-4.6196e-04	-5.4312e-05	4.6145e-04	4.9800e-04	3.1182e-04
-4.5133e-04	-9.1809e-04	-8.1850e-04	-2.3750e-04	5.7125e-04	1.3560e-03
-1.8689e-04	-4.0403e-04	-4.5328e-04	-2.3996e-04	2.8055e-04	7.7558e-04

Columns 7 through 12:

-3.3189e-04	-4.8450e-04	-1.6989e-04	3.4885e-04	2.1876e-04	-9.7011e-05
-7.9501e-04	-9.3603e-04	-2.8062e-04	8.4031e-04	5.8158e-04	-2.1108e-04
-9.1609e-04	-6.7926e-04	7.7827e-05	8.3971e-04	4.9993e-04	-3.3147e-04
-5.0875e-04	-2.2271e-05	4.9052e-04	4.7644e-04	1.7855e-04	-3.2061e-04
4.4136e-04	5.9146e-04	3.7255e-04	-1.6165e-05	-3.7970e-05	7.6827e-05
1.4533e-03	8.5618e-04	1.0005e-04	-2.7414e-04	-1.5070e-04	5.1088e-04
1.6915e-03	1.0328e-03	2.4836e-04	-1.9451e-04	-1.3753e-04	4.9674e-04
1.0328e-03	1.1897e-03	6.5903e-04	-6.1107e-05	-1.1242e-04	1.8943e-04
2.4836e-04	6.5903e-04	9.8166e-04	8.0829e-04	2.9610e-04	-2.8513e-04
-1.9451e-04	-6.1107e-05	8.0829e-04	1.6735e-03	8.6369e-04	-4.5313e-04
-1.3753e-04	-1.1242e-04	2.9610e-04	8.6369e-04	5.0415e-04	-1.7457e-04
4.9674e-04	1.8943e-04	-2.8513e-04	-4.5313e-04	-1.7457e-04	3.3544e-04
1.1980e-03	5.2411e-04	-4.9678e-04	-9.5610e-04	-4.1802e-04	6.7879e-04
1.0927e-03	7.3515e-04	-8.2112e-05	-8.2765e-04	-4.6911e-04	4.5819e-04
3.8625e-04	7.0268e-04	4.5355e-04	-2.8850e-04	-2.6388e-04	7.3275e-05
-1.3809e-04	1.8137e-04	4.9616e-04	5.6712e-04	2.7378e-04	-2.1669e-04
-3.4479e-04	-4.4935e-04	3.0111e-04	1.3243e-03	7.4170e-04	-2.7334e-04
-3.7252e-04	-4.4393e-04	4.0441e-04	1.5431e-03	8.6620e-04	-3.3793e-04
-4.2826e-04	3.7703e-05	7.5782e-04	1.1845e-03	5.7490e-04	-4.8466e-04
4.1642e-04	7.6692e-04	9.0317e-04	5.9213e-04	1.7599e-04	-1.6565e-04
1.5483e-03	1.2100e-03	5.9521e-04	1.2237e-04	-5.7510e-06	3.5152e-04
8.8545e-04	6.2410e-04	1.9462e-04	-5.7510e-06	1.2612e-05	2.4827e-04

Columns 13 through 18:

-2.4110e-04	-3.6742e-04	-3.4956e-04	6.1773e-05	4.8046e-04	4.7593e-04
-5.6339e-04	-8.5296e-04	-7.1971e-04	2.0364e-04	1.1020e-03	1.1659e-03
-8.6486e-04	-8.7454e-04	-3.7674e-04	3.2596e-04	9.3399e-04	1.0468e-03
-7.3141e-04	-3.8605e-04	2.0319e-04	3.7863e-04	2.8950e-04	3.7712e-04
1.9391e-04	3.0749e-04	3.6917e-04	1.6751e-04	-1.9245e-04	-1.6576e-04
1.1126e-03	9.4031e-04	3.0400e-04	-1.7295e-04	-3.4168e-04	-3.6602e-04
1.1980e-03	1.0927e-03	3.8625e-04	-1.3809e-04	-3.4479e-04	-3.7252e-04
5.2411e-04	7.3515e-04	7.0268e-04	1.8137e-04	-4.4935e-04	-4.4393e-04
-4.9678e-04	-8.2112e-05	4.5355e-04	4.9616e-04	3.0111e-04	4.0441e-04
-9.5610e-04	-8.2765e-04	-2.8850e-04	5.6712e-04	1.3243e-03	1.5431e-03
-4.1802e-04	-4.6911e-04	-2.6388e-04	2.7378e-04	7.4170e-04	8.6620e-04
6.7879e-04	4.5819e-04	7.3275e-05	-2.1669e-04	-2.7334e-04	-3.3793e-04
1.4315e-03	1.0420e-03	1.7597e-04	-4.0368e-04	-6.9458e-04	-8.2416e-04
1.0420e-03	1.0122e-03	4.7622e-04	-2.0570e-04	-7.7360e-04	-9.2877e-04
1.7597e-04	4.7622e-04	6.6200e-04	1.6047e-04	-4.8719e-04	-5.3437e-04
-4.0368e-04	-2.0570e-04	1.6047e-04	3.8776e-04	3.8249e-04	4.3261e-04
-6.9458e-04	-7.7360e-04	-4.8719e-04	3.8249e-04	1.2703e-03	1.4273e-03
-8.2416e-04	-9.2877e-04	-5.3437e-04	4.3261e-04	1.4273e-03	1.6612e-03
-9.7016e-04	-6.9373e-04	-4.6074e-05	5.6375e-04	8.2570e-04	1.0246e-03
-2.9681e-04	9.9964e-05	4.9265e-04	3.8205e-04	1.1355e-04	2.3579e-04
8.4814e-04	8.5498e-04	5.1394e-04	2.0495e-05	-2.6139e-04	-2.0517e-04
5.9146e-04	5.3222e-04	1.8836e-04	-4.6452e-05	-1.3973e-04	-1.4613e-04

Columns 19 through 22:

1.3098e-04	-2.8171e-04	-4.5133e-04	-1.8689e-04
5.0508e-04	-4.6196e-04	-9.1809e-04	-4.0403e-04
7.1307e-04	-5.4312e-05	-8.1850e-04	-4.5328e-04
6.6347e-04	4.6145e-04	-2.3750e-04	-2.3996e-04
1.6196e-04	4.9800e-04	5.7125e-04	2.8055e-04
-4.4620e-04	3.1182e-04	1.3560e-03	7.7558e-04
-4.2826e-04	4.1642e-04	1.5483e-03	8.8545e-04
3.7703e-05	7.6692e-04	1.2100e-03	6.2410e-04
7.5782e-04	9.0317e-04	5.9521e-04	1.9462e-04
1.1845e-03	5.9213e-04	1.2237e-04	-5.7510e-06
5.7490e-04	1.7599e-04	-5.7510e-06	1.2612e-05
-4.8466e-04	-1.6565e-04	3.5152e-04	2.4827e-04
-9.7016e-04	-2.9681e-04	8.4814e-04	5.9146e-04
-6.9373e-04	9.9964e-05	8.5498e-04	5.3222e-04
-4.6074e-05	4.9265e-04	5.1394e-04	1.8836e-04
5.6375e-04	3.8205e-04	2.0495e-05	-4.6452e-05
8.2570e-04	1.1355e-04	-2.6139e-04	-1.3973e-04
1.0246e-03	2.3579e-04	-2.0517e-04	-1.4613e-04
1.1427e-03	6.5450e-04	-4.4276e-05	-1.2315e-04
6.5450e-04	9.7808e-04	8.1610e-04	2.9925e-04
-4.4276e-05	8.1610e-04	1.6912e-03	8.9133e-04
-1.2315e-04	2.9925e-04	8.9133e-04	5.3160e-04

Iteration 5/100 μ :
0.10618

Iteration 5/100 d:

0.040072
0.059435
0.022843
-0.054906
-0.225611
-0.388862
-0.444898
-0.360907
-0.292389
-0.277043
-0.122771
-0.065854
-0.174204
-0.195527
-0.158653
-0.151633
-0.177273
-0.215401
-0.192465
-0.318554

-0.483667
-0.238220

$\mu = 0.106180 / 2 \rightarrow 0.053090$

Iteration 5/100 w(t):

1.0868	11.8671
2.1325	12.6483
3.0573	13.6035
3.8935	14.6785
4.5464	15.6986
5.2154	16.6542
6.1009	17.5777
7.2682	18.6182
8.4107	19.3567
9.4490	20.0203
10.7566	21.5165

Iteration 5/100 error:

1.3996

Iteration 5/100 gradient:

-0.0042832
-0.0062880
-0.0024700
0.0058638
0.0239703
0.0412895
0.0472780
0.0383851
0.0310909
0.0294221
0.0130863
0.0070419
0.0185142
0.0207430
0.0168819
0.0161417
0.0187967
0.0228436
0.0204343
0.0338935
0.0514391
0.0254025

Iteration 5/100 gradient norm:

0.12325

Iteration 6/100 Hessian matrix:

Columns 1 through 6:

3.7010e-04	6.9336e-04	4.5675e-04	6.0352e-05	-2.1585e-04	-2.4822e-04
6.9336e-04	1.4685e-03	1.0759e-03	1.7899e-04	-3.8909e-04	-6.3090e-04
4.5675e-04	1.0759e-03	1.0314e-03	4.9563e-04	-1.9857e-04	-7.5124e-04
6.0352e-05	1.7899e-04	4.9563e-04	6.6560e-04	1.6664e-04	-4.5985e-04
-2.1585e-04	-3.8909e-04	-1.9857e-04	1.6664e-04	4.0457e-04	3.9422e-04
-2.4822e-04	-6.3090e-04	-7.5124e-04	-4.5985e-04	3.9422e-04	1.3342e-03
-3.2532e-04	-7.8595e-04	-8.9166e-04	-5.1292e-04	4.2775e-04	1.4692e-03
-4.9432e-04	-9.4118e-04	-6.8467e-04	-3.2863e-05	5.9757e-04	8.6677e-04
-1.9291e-04	-2.8724e-04	6.9833e-05	4.3876e-04	3.5714e-04	1.0725e-04
3.3900e-04	8.3247e-04	8.5874e-04	4.9272e-04	1.8607e-05	-2.4398e-04
2.5915e-04	6.1526e-04	5.4545e-04	1.9107e-04	-1.7764e-05	-9.0883e-05
-8.8130e-05	-2.2038e-04	-3.4157e-04	-3.4905e-04	4.7118e-05	5.1590e-04
-1.8161e-04	-5.1108e-04	-8.3369e-04	-6.9404e-04	2.2298e-04	1.1655e-03
-3.2390e-04	-7.9914e-04	-8.5141e-04	-3.5163e-04	3.5014e-04	9.7720e-04
-3.2339e-04	-6.7732e-04	-3.5232e-04	2.0430e-04	3.9013e-04	3.5700e-04
6.0330e-05	2.0977e-04	3.3096e-04	3.6484e-04	1.7704e-04	-1.7060e-04
5.4394e-04	1.1663e-03	9.6494e-04	3.3529e-04	-1.6247e-04	-2.9339e-04
5.2711e-04	1.2319e-03	1.0988e-03	4.0077e-04	-1.3283e-04	-3.0804e-04
1.4155e-04	5.0484e-04	7.4771e-04	6.7546e-04	1.7779e-04	-4.3263e-04
-2.8384e-04	-4.6199e-04	-4.1789e-05	4.3818e-04	4.9754e-04	3.2623e-04
-4.5299e-04	-9.3594e-04	-8.0611e-04	-2.5329e-04	5.7927e-04	1.3403e-03
-1.9762e-04	-4.1431e-04	-4.8768e-04	-2.7642e-04	2.5449e-04	7.9459e-04

Columns 7 through 12:

-3.2532e-04	-4.9432e-04	-1.9291e-04	3.3900e-04	2.5915e-04	-8.8130e-05
-7.8595e-04	-9.4118e-04	-2.8724e-04	8.3247e-04	6.1526e-04	-2.2038e-04
-8.9166e-04	-6.8467e-04	6.9833e-05	8.5874e-04	5.4545e-04	-3.4157e-04
-5.1292e-04	-3.2863e-05	4.3876e-04	4.9272e-04	1.9107e-04	-3.4905e-04
4.2775e-04	5.9757e-04	3.5714e-04	1.8607e-05	-1.7764e-05	4.7118e-05
1.4692e-03	8.6677e-04	1.0725e-04	-2.4398e-04	-9.0883e-05	5.1590e-04
1.6978e-03	1.0298e-03	2.3372e-04	-2.0139e-04	-1.1782e-04	4.9731e-04
1.0298e-03	1.1767e-03	6.4992e-04	-5.1159e-05	-1.3081e-04	1.6540e-04
2.3372e-04	6.4992e-04	9.2530e-04	7.7596e-04	2.8888e-04	-2.8351e-04
-2.0139e-04	-5.1159e-05	7.7596e-04	1.6673e-03	8.7166e-04	-4.6174e-04
-1.1782e-04	-1.3081e-04	2.8888e-04	8.7166e-04	5.4969e-04	-1.8179e-04
4.9731e-04	1.6540e-04	-2.8351e-04	-4.6174e-04	-1.8179e-04	3.3893e-04
1.1922e-03	5.0298e-04	-4.9598e-04	-9.2075e-04	-3.7257e-04	6.7633e-04
1.1000e-03	7.4658e-04	-5.4023e-05	-7.9066e-04	-4.4067e-04	4.3530e-04
4.0163e-04	6.9751e-04	4.3736e-04	-2.5127e-04	-2.2962e-04	5.7820e-05
-1.4613e-04	1.8079e-04	4.7551e-04	5.7996e-04	2.8439e-04	-2.3015e-04
-3.3160e-04	-4.2508e-04	2.9035e-04	1.3397e-03	7.9459e-04	-2.8113e-04
-3.7690e-04	-4.1429e-04	4.0616e-04	1.5487e-03	9.1578e-04	-3.3167e-04
-4.3590e-04	3.6415e-05	7.4534e-04	1.1940e-03	5.9162e-04	-5.0155e-04
4.1078e-04	7.7300e-04	8.6404e-04	5.8322e-04	2.0135e-04	-1.8030e-04
1.5488e-03	1.2065e-03	5.8036e-04	1.1726e-04	-1.1213e-05	3.3549e-04
8.8096e-04	5.7236e-04	1.5024e-04	-2.7289e-05	-6.3727e-06	2.3284e-04

Columns 13 through 18:

-1.8161e-04	-3.2390e-04	-3.2339e-04	6.0330e-05	5.4394e-04	5.2711e-04
-5.1108e-04	-7.9914e-04	-6.7732e-04	2.0977e-04	1.1663e-03	1.2319e-03
-8.3369e-04	-8.5141e-04	-3.5232e-04	3.3096e-04	9.6494e-04	1.0988e-03
-6.9404e-04	-3.5163e-04	2.0430e-04	3.6484e-04	3.3529e-04	4.0077e-04
2.2298e-04	3.5014e-04	3.9013e-04	1.7704e-04	-1.6247e-04	-1.3283e-04
1.1655e-03	9.7720e-04	3.5700e-04	-1.7060e-04	-2.9339e-04	-3.0804e-04
1.1922e-03	1.1000e-03	4.0163e-04	-1.4613e-04	-3.3160e-04	-3.7690e-04
5.0298e-04	7.4658e-04	6.9751e-04	1.8079e-04	-4.2508e-04	-4.1429e-04
-4.9598e-04	-5.4023e-05	4.3736e-04	4.7551e-04	2.9035e-04	4.0616e-04
-9.2075e-04	-7.9066e-04	-2.5127e-04	5.7996e-04	1.3397e-03	1.5487e-03
-3.7257e-04	-4.4067e-04	-2.2962e-04	2.8439e-04	7.9459e-04	9.1578e-04
6.7633e-04	4.3530e-04	5.7820e-05	-2.3015e-04	-2.8113e-04	-3.3167e-04
1.4681e-03	1.0585e-03	2.0490e-04	-4.1283e-04	-6.2801e-04	-7.7018e-04
1.0585e-03	1.0719e-03	5.2081e-04	-1.8912e-04	-7.3681e-04	-8.8729e-04
2.0490e-04	5.2081e-04	7.0930e-04	1.7115e-04	-4.3250e-04	-4.9198e-04
-4.1283e-04	-1.8912e-04	1.7115e-04	4.0850e-04	3.8607e-04	4.2699e-04
-6.2801e-04	-7.3681e-04	-4.3250e-04	3.8607e-04	1.3417e-03	1.4811e-03
-7.7018e-04	-8.8729e-04	-4.9198e-04	4.2699e-04	1.4811e-03	1.7120e-03
-9.5302e-04	-6.6733e-04	-3.0953e-05	5.8487e-04	8.5805e-04	1.0181e-03
-2.6794e-04	1.0478e-04	4.8759e-04	3.8491e-04	1.2168e-04	2.4047e-04
8.2903e-04	8.6937e-04	5.0726e-04	2.6823e-05	-2.4600e-04	-1.9993e-04
5.9055e-04	5.0671e-04	1.7391e-04	-4.4986e-05	-1.3853e-04	-1.4442e-04

Columns 19 through 22:

1.4155e-04	-2.8384e-04	-4.5299e-04	-1.9762e-04
5.0484e-04	-4.6199e-04	-9.3594e-04	-4.1431e-04
7.4771e-04	-4.1789e-05	-8.0611e-04	-4.8768e-04
6.7546e-04	4.3818e-04	-2.5329e-04	-2.7642e-04
1.7779e-04	4.9754e-04	5.7927e-04	2.5449e-04
-4.3263e-04	3.2623e-04	1.3403e-03	7.9459e-04
-4.3590e-04	4.1078e-04	1.5488e-03	8.8096e-04
3.6415e-05	7.7300e-04	1.2065e-03	5.7236e-04
7.4534e-04	8.6404e-04	5.8036e-04	1.5024e-04
1.1940e-03	5.8322e-04	1.1726e-04	-2.7289e-05
5.9162e-04	2.0135e-04	-1.1213e-05	-6.3727e-06
-5.0155e-04	-1.8030e-04	3.3549e-04	2.3284e-04
-9.5302e-04	-2.6794e-04	8.2903e-04	5.9055e-04
-6.6733e-04	1.0478e-04	8.6937e-04	5.0671e-04
-3.0953e-05	4.8759e-04	5.0726e-04	1.7391e-04
5.8487e-04	3.8491e-04	2.6823e-05	-4.4986e-05
8.5805e-04	1.2168e-04	-2.4600e-04	-1.3853e-04
1.0181e-03	2.4047e-04	-1.9993e-04	-1.4442e-04
1.1319e-03	6.5057e-04	-6.6391e-05	-1.4659e-04
6.5057e-04	9.6194e-04	8.0458e-04	2.8351e-04
-6.6391e-05	8.0458e-04	1.6835e-03	8.6673e-04

-1.4659e-04 2.8351e-04 8.6673e-04 4.8739e-04

Iteration 6/100 μ :
0.053090

Iteration 6/100 d:

0.058149
0.075618
0.015122
-0.108330
-0.402800
-0.687422
-0.785745
-0.631656
-0.520602
-0.507736
-0.225631
-0.120284
-0.309317
-0.340445
-0.276258
-0.280480
-0.339109
-0.408483
-0.356092
-0.562792
-0.848883
-0.419226

$\mu = 0.053090 / 2 \rightarrow 0.026545$

Iteration 6/100 w(t):

1.1449 11.7468
2.2081 12.3390
3.0724 13.2631
3.7852 14.4023
4.1436 15.4182
4.5280 16.3151
5.3152 17.1692
6.6366 18.2621
7.8901 18.7939
8.9412 19.1714
10.5310 21.0973

Iteration 6/100 error:
1.1592

Iteration 6/100 gradient:
-3.0141e-03

-3.8405e-03
-7.4507e-04
5.8294e-03
2.1499e-02
3.6681e-02
4.1782e-02
3.3635e-02
2.7589e-02
2.7015e-02
1.2209e-02
6.3923e-03
1.6576e-02
1.8215e-02
1.4862e-02
1.4984e-02
1.8159e-02
2.1798e-02
1.8907e-02
2.9976e-02
4.5167e-02
2.2306e-02

Iteration 6/100 gradient norm:
0.10988

Iteration 7/100 Hessian matrix:
Columns 1 through 6:

3.2674e-04	6.5143e-04	4.4389e-04	4.3898e-05	-2.3732e-04	-3.1017e-04
6.5143e-04	1.4271e-03	1.0680e-03	1.7446e-04	-3.9937e-04	-6.8159e-04
4.4389e-04	1.0680e-03	1.0459e-03	4.9729e-04	-1.9174e-04	-7.6577e-04
4.3898e-05	1.7446e-04	4.9729e-04	6.7395e-04	1.4659e-04	-4.8543e-04
-2.3732e-04	-3.9937e-04	-1.9174e-04	1.4659e-04	4.0505e-04	3.7081e-04
-3.1017e-04	-6.8159e-04	-7.6577e-04	-4.8543e-04	3.7081e-04	1.2925e-03
-3.3049e-04	-7.9579e-04	-8.9815e-04	-4.9676e-04	4.3767e-04	1.4522e-03
-4.8912e-04	-9.4467e-04	-6.6911e-04	-4.0923e-05	5.6586e-04	8.3298e-04
-1.8765e-04	-2.9385e-04	7.7138e-05	4.8135e-04	3.6933e-04	9.9831e-05
3.1715e-04	8.1719e-04	8.6435e-04	4.9449e-04	-1.7542e-06	-2.7633e-04
2.1516e-04	5.6686e-04	5.1339e-04	1.5852e-04	-7.0166e-05	-1.5643e-04
-9.5834e-05	-2.2082e-04	-3.3304e-04	-3.5583e-04	4.3165e-05	4.8379e-04
-2.3048e-04	-5.5045e-04	-8.4504e-04	-7.3195e-04	2.0504e-04	1.1066e-03
-3.3489e-04	-8.1970e-04	-8.5953e-04	-3.8485e-04	3.3675e-04	9.4238e-04
-3.6993e-04	-7.3554e-04	-3.9004e-04	1.8012e-04	3.5503e-04	2.8895e-04
4.8472e-05	2.0164e-04	3.4668e-04	3.7486e-04	1.7855e-04	-1.6291e-04
4.7906e-04	1.1053e-03	9.3350e-04	3.0924e-04	-1.8383e-04	-3.3535e-04
4.9616e-04	1.1906e-03	1.0828e-03	3.8780e-04	-1.4477e-04	-3.4466e-04
1.4486e-04	4.9738e-04	7.4953e-04	6.7624e-04	1.7619e-04	-4.6068e-04
-2.9881e-04	-4.8965e-04	-4.8539e-05	4.3161e-04	4.7553e-04	2.9097e-04
-4.5226e-04	-9.3177e-04	-8.0467e-04	-2.6723e-04	5.5784e-04	1.3076e-03

-1.9855e-04 -4.2988e-04 -4.7247e-04 -2.8326e-04 2.4072e-04 7.3341e-04

Columns 7 through 12:

-3.3049e-04 -4.8912e-04 -1.8765e-04 3.1715e-04 2.1516e-04 -9.5834e-05
-7.9579e-04 -9.4467e-04 -2.9385e-04 8.1719e-04 5.6686e-04 -2.2082e-04
-8.9815e-04 -6.6911e-04 7.7138e-05 8.6435e-04 5.1339e-04 -3.3304e-04
-4.9676e-04 -4.0923e-05 4.8135e-04 4.9449e-04 1.5852e-04 -3.5583e-04
4.3767e-04 5.6586e-04 3.6933e-04 -1.7542e-06 -7.0166e-05 4.3165e-05
1.4522e-03 8.3298e-04 9.9831e-05 -2.7633e-04 -1.5643e-04 4.8379e-04
1.6872e-03 1.0373e-03 2.3239e-04 -2.0457e-04 -1.4277e-04 5.0646e-04
1.0373e-03 1.1527e-03 6.5601e-04 -5.8464e-05 -1.6587e-04 1.5021e-04
2.3239e-04 6.5601e-04 9.4298e-04 7.8009e-04 2.6925e-04 -2.9881e-04
-2.0457e-04 -5.8464e-05 7.8009e-04 1.6467e-03 8.4608e-04 -4.5020e-04
-1.4277e-04 -1.6587e-04 2.6925e-04 8.4608e-04 4.7309e-04 -1.9751e-04
5.0646e-04 1.5021e-04 -2.9881e-04 -4.5020e-04 -1.9751e-04 3.1841e-04
1.1917e-03 4.8439e-04 -4.9787e-04 -9.3026e-04 -4.4251e-04 6.4759e-04
1.0862e-03 7.3337e-04 -5.9908e-05 -7.9845e-04 -4.6385e-04 4.5812e-04
3.8527e-04 6.6334e-04 4.2000e-04 -2.8377e-04 -2.9781e-04 4.2721e-05
-1.3720e-04 1.8365e-04 4.9036e-04 5.6410e-04 2.4423e-04 -2.3204e-04
-3.5352e-04 -4.4773e-04 2.8342e-04 1.3173e-03 7.4734e-04 -3.0946e-04
-3.7474e-04 -4.2781e-04 3.9664e-04 1.5477e-03 8.8352e-04 -3.2687e-04
-4.2766e-04 3.0531e-05 7.4294e-04 1.1836e-03 5.7818e-04 -4.8295e-04
4.0272e-04 7.4207e-04 8.6318e-04 5.9224e-04 1.6924e-04 -1.9700e-04
1.5419e-03 1.1729e-03 5.8622e-04 9.9476e-05 -4.4542e-05 3.1519e-04
8.7472e-04 5.6632e-04 1.5710e-04 -2.9066e-05 -4.0656e-05 2.0892e-04

Columns 13 through 18:

-2.3048e-04 -3.3489e-04 -3.6993e-04 4.8472e-05 4.7906e-04 4.9616e-04
-5.5045e-04 -8.1970e-04 -7.3554e-04 2.0164e-04 1.1053e-03 1.1906e-03
-8.4504e-04 -8.5953e-04 -3.9004e-04 3.4668e-04 9.3350e-04 1.0828e-03
-7.3195e-04 -3.8485e-04 1.8012e-04 3.7486e-04 3.0924e-04 3.8780e-04
2.0504e-04 3.3675e-04 3.5503e-04 1.7855e-04 -1.8383e-04 -1.4477e-04
1.1066e-03 9.4238e-04 2.8895e-04 -1.6291e-04 -3.3535e-04 -3.4466e-04
1.1917e-03 1.0862e-03 3.8527e-04 -1.3720e-04 -3.5352e-04 -3.7474e-04
4.8439e-04 7.3337e-04 6.6334e-04 1.8365e-04 -4.4773e-04 -4.2781e-04
-4.9787e-04 -5.9908e-05 4.2000e-04 4.9036e-04 2.8342e-04 3.9664e-04
-9.3026e-04 -7.9845e-04 -2.8377e-04 5.6410e-04 1.3173e-03 1.5477e-03
-4.4251e-04 -4.6385e-04 -2.9781e-04 2.4423e-04 7.4734e-04 8.8352e-04
6.4759e-04 4.5812e-04 4.2721e-05 -2.3204e-04 -3.0946e-04 -3.2687e-04
1.4156e-03 1.0604e-03 1.4506e-04 -4.0252e-04 -6.7673e-04 -7.9574e-04
1.0604e-03 1.0636e-03 4.9145e-04 -1.9045e-04 -7.6612e-04 -8.9768e-04
1.4506e-04 4.9145e-04 6.4215e-04 1.3778e-04 -4.9687e-04 -5.1428e-04
-4.0252e-04 -1.9045e-04 1.3778e-04 4.1906e-04 3.8571e-04 4.3154e-04
-6.7673e-04 -7.6612e-04 -4.9687e-04 3.8571e-04 1.2780e-03 1.4441e-03
-7.9574e-04 -8.9768e-04 -5.1428e-04 4.3154e-04 1.4441e-03 1.6827e-03
-9.5193e-04 -6.6356e-04 -4.2077e-05 5.7645e-04 8.4781e-04 1.0423e-03
-3.0649e-04 9.9831e-05 4.5761e-04 3.7601e-04 9.8233e-05 2.3541e-04

8.0420e-04	8.4472e-04	4.7589e-04	9.9476e-06	-2.8184e-04	-1.9511e-04
5.5183e-04	4.9754e-04	1.2594e-04	-5.9686e-05	-1.6156e-04	-1.4966e-04

Columns 19 through 22:

1.4486e-04	-2.9881e-04	-4.5226e-04	-1.9855e-04
4.9738e-04	-4.8965e-04	-9.3177e-04	-4.2988e-04
7.4953e-04	-4.8539e-05	-8.0467e-04	-4.7247e-04
6.7624e-04	4.3161e-04	-2.6723e-04	-2.8326e-04
1.7619e-04	4.7553e-04	5.5784e-04	2.4072e-04
-4.6068e-04	2.9097e-04	1.3076e-03	7.3341e-04
-4.2766e-04	4.0272e-04	1.5419e-03	8.7472e-04
3.0531e-05	7.4207e-04	1.1729e-03	5.6632e-04
7.4294e-04	8.6318e-04	5.8622e-04	1.5710e-04
1.1836e-03	5.9224e-04	9.9476e-05	-2.9066e-05
5.7818e-04	1.6924e-04	-4.4542e-05	-4.0656e-05
-4.8295e-04	-1.9700e-04	3.1519e-04	2.0892e-04
-9.5193e-04	-3.0649e-04	8.0420e-04	5.5183e-04
-6.6356e-04	9.9831e-05	8.4472e-04	4.9754e-04
-4.2077e-05	4.5761e-04	4.7589e-04	1.2594e-04
5.7645e-04	3.7601e-04	9.9476e-06	-5.9686e-05
8.4781e-04	9.8233e-05	-2.8184e-04	-1.6156e-04
1.0423e-03	2.3541e-04	-1.9511e-04	-1.4966e-04
1.1574e-03	6.6687e-04	-6.1195e-05	-1.5330e-04
6.6687e-04	9.5457e-04	7.8311e-04	2.5222e-04
-6.1195e-05	7.8311e-04	1.6511e-03	8.3322e-04
-1.5330e-04	2.5222e-04	8.3322e-04	4.7202e-04

Iteration 7/100 μ :
0.026545

Iteration 7/100 d:

0.041501
0.018304
-0.055904
-0.209665
-0.664122
-1.118080
-1.251209
-0.993046
-0.827552
-0.854228
-0.399578
-0.211528
-0.523065
-0.546105
-0.452304
-0.483689
-0.629272

-0.732592
-0.605632
-0.894676
-1.336605
-0.665602

$\mu = 0.026545 / 2 \rightarrow 0.013273$

Iteration 7/100 w(t):

1.1864	11.5353
2.2264	11.8159
3.0165	12.7170
3.5755	13.9500
3.4794	14.9345
3.4099	15.6858
4.0640	16.4367
5.6435	17.6565
7.0626	17.8992
8.0870	17.8348
10.1314	20.4317

Iteration 7/100 error:

0.82627

Iteration 7/100 gradient:

-1.2234e-03
-4.6779e-04
1.5389e-03
5.5962e-03
1.7634e-02
2.9547e-02
3.3262e-02
2.6298e-02
2.1900e-02
2.2628e-02
1.0490e-02
5.4969e-03
1.3812e-02
1.4550e-02
1.1851e-02
1.2956e-02
1.6579e-02
1.9501e-02
1.6080e-02
2.3704e-02
3.5372e-02
1.7485e-02

Iteration 7/100 gradient norm:

0.088839

Iteration 8/100 Hessian matrix:
Columns 1 through 6:

3.3723e-04	6.6737e-04	4.3412e-04	5.1015e-05	-2.3087e-04	-2.7653e-04
6.6737e-04	1.4277e-03	1.0380e-03	1.6085e-04	-4.0580e-04	-6.7303e-04
4.3412e-04	1.0380e-03	1.0270e-03	4.8426e-04	-2.1206e-04	-7.7158e-04
5.1015e-05	1.6085e-04	4.8426e-04	6.5706e-04	1.5352e-04	-4.6815e-04
-2.3087e-04	-4.0580e-04	-2.1206e-04	1.5352e-04	4.1064e-04	3.9230e-04
-2.7653e-04	-6.7303e-04	-7.7158e-04	-4.6815e-04	3.9230e-04	1.3158e-03
-3.2018e-04	-7.9392e-04	-9.1057e-04	-5.0725e-04	4.2161e-04	1.4577e-03
-4.9283e-04	-9.4810e-04	-6.6573e-04	-3.0387e-05	5.8114e-04	8.6054e-04
-1.8522e-04	-2.9694e-04	7.1132e-05	4.5181e-04	3.6960e-04	1.0041e-04
3.2637e-04	8.0747e-04	8.3517e-04	4.7796e-04	4.9294e-06	-2.7586e-04
2.1432e-04	5.6507e-04	4.8924e-04	1.5357e-04	-5.6377e-05	-1.4476e-04
-8.8052e-05	-2.0568e-04	-3.4527e-04	-3.4297e-04	5.8464e-05	5.1447e-04
-2.1787e-04	-5.4755e-04	-8.4491e-04	-7.2151e-04	2.0256e-04	1.1308e-03
-3.4115e-04	-8.4340e-04	-8.7149e-04	-3.8496e-04	3.2990e-04	9.4418e-04
-3.4865e-04	-7.3415e-04	-3.9788e-04	1.7546e-04	3.6463e-04	3.1103e-04
4.8517e-05	1.8584e-04	3.1184e-04	3.6785e-04	1.7174e-04	-1.7881e-04
5.1098e-04	1.1298e-03	9.4923e-04	3.2347e-04	-1.6719e-04	-3.1514e-04
5.1059e-04	1.1906e-03	1.0664e-03	3.8555e-04	-1.5407e-04	-3.4666e-04
1.5355e-04	4.8694e-04	7.2988e-04	6.7418e-04	1.7187e-04	-4.4315e-04
-2.8231e-04	-4.9722e-04	-7.0233e-05	4.2917e-04	4.7533e-04	2.9633e-04
-4.4885e-04	-9.2223e-04	-7.9362e-04	-2.5703e-04	5.7768e-04	1.3335e-03
-1.9413e-04	-4.1176e-04	-4.6988e-04	-2.6609e-04	2.5953e-04	7.6810e-04

Columns 7 through 12:

-3.2018e-04	-4.9283e-04	-1.8522e-04	3.2637e-04	2.1432e-04	-8.8052e-05
-7.9392e-04	-9.4810e-04	-2.9694e-04	8.0747e-04	5.6507e-04	-2.0568e-04
-9.1057e-04	-6.6573e-04	7.1132e-05	8.3517e-04	4.8924e-04	-3.4527e-04
-5.0725e-04	-3.0387e-05	4.5181e-04	4.7796e-04	1.5357e-04	-3.4297e-04
4.2161e-04	5.8114e-04	3.6960e-04	4.9294e-06	-5.6377e-05	5.8464e-05
1.4577e-03	8.6054e-04	1.0041e-04	-2.7586e-04	-1.4476e-04	5.1447e-04
1.6807e-03	1.0356e-03	2.3922e-04	-2.0314e-04	-1.5735e-04	5.1473e-04
1.0356e-03	1.1739e-03	6.6502e-04	-7.4507e-05	-1.5116e-04	1.5812e-04
2.3922e-04	6.6502e-04	9.4103e-04	7.8175e-04	2.6239e-04	-2.8488e-04
-2.0314e-04	-7.4507e-05	7.8175e-04	1.6512e-03	8.5025e-04	-4.7241e-04
-1.5735e-04	-1.5116e-04	2.6239e-04	8.5025e-04	4.6290e-04	-2.0280e-04
5.1473e-04	1.5812e-04	-2.8488e-04	-4.7241e-04	-2.0280e-04	3.4750e-04
1.1929e-03	4.9841e-04	-4.8925e-04	-9.5679e-04	-4.3399e-04	6.6298e-04
1.0728e-03	7.3834e-04	-6.0241e-05	-8.1017e-04	-4.8543e-04	4.3059e-04
3.8159e-04	6.6923e-04	4.2237e-04	-2.7388e-04	-2.8688e-04	3.5683e-05
-1.5676e-04	1.8960e-04	4.7889e-04	5.5879e-04	2.4104e-04	-2.3737e-04
-3.3902e-04	-4.2405e-04	3.0713e-04	1.3238e-03	7.6203e-04	-2.8286e-04
-3.8288e-04	-4.3823e-04	4.0471e-04	1.5354e-03	8.6273e-04	-3.3277e-04
-4.4160e-04	3.0509e-05	7.4162e-04	1.1818e-03	5.5286e-04	-5.0144e-04

4.0878e-04	7.3977e-04	8.6282e-04	5.7631e-04	1.5717e-04	-1.9119e-04
1.5503e-03	1.2076e-03	5.9731e-04	1.0104e-04	-2.5735e-05	3.3757e-04
8.9289e-04	5.8128e-04	1.7997e-04	-2.9010e-05	-3.3695e-05	2.3725e-04

Columns 13 through 18:

-2.1787e-04	-3.4115e-04	-3.4865e-04	4.8517e-05	5.1098e-04	5.1059e-04
-5.4755e-04	-8.4340e-04	-7.3415e-04	1.8584e-04	1.1298e-03	1.1906e-03
-8.4491e-04	-8.7149e-04	-3.9788e-04	3.1184e-04	9.4923e-04	1.0664e-03
-7.2151e-04	-3.8496e-04	1.7546e-04	3.6785e-04	3.2347e-04	3.8555e-04
2.0256e-04	3.2990e-04	3.6463e-04	1.7174e-04	-1.6719e-04	-1.5407e-04
1.1308e-03	9.4418e-04	3.1103e-04	-1.7881e-04	-3.1514e-04	-3.4666e-04
1.1929e-03	1.0728e-03	3.8159e-04	-1.5676e-04	-3.3902e-04	-3.8288e-04
4.9841e-04	7.3834e-04	6.6923e-04	1.8960e-04	-4.2405e-04	-4.3823e-04
-4.8925e-04	-6.0241e-05	4.2237e-04	4.7889e-04	3.0713e-04	4.0471e-04
-9.5679e-04	-8.1017e-04	-2.7388e-04	5.5879e-04	1.3238e-03	1.5354e-03
-4.3399e-04	-4.8543e-04	-2.8688e-04	2.4104e-04	7.6203e-04	8.6273e-04
6.6298e-04	4.3059e-04	3.5683e-05	-2.3737e-04	-2.8286e-04	-3.3277e-04
1.4318e-03	1.0396e-03	1.5626e-04	-4.1377e-04	-6.6009e-04	-8.0762e-04
1.0396e-03	1.0227e-03	4.8029e-04	-2.1440e-04	-7.5867e-04	-9.0974e-04
1.5626e-04	4.8029e-04	6.3980e-04	1.4236e-04	-4.7650e-04	-5.1532e-04
-4.1377e-04	-2.1440e-04	1.4236e-04	3.9118e-04	3.8430e-04	4.1779e-04
-6.6009e-04	-7.5867e-04	-4.7650e-04	3.8430e-04	1.3140e-03	1.4564e-03
-8.0762e-04	-9.0974e-04	-5.1532e-04	4.1779e-04	1.4564e-03	1.6906e-03
-9.6779e-04	-6.6660e-04	-4.3843e-05	5.6325e-04	8.4908e-04	1.0189e-03
-2.9778e-04	7.0988e-05	4.5124e-04	3.5503e-04	1.0560e-04	2.3093e-04
8.1697e-04	8.5794e-04	4.8362e-04	1.3800e-05	-2.5265e-04	-2.0967e-04
5.6996e-04	5.1202e-04	1.5730e-04	-4.5008e-05	-1.3577e-04	-1.4909e-04

Columns 19 through 22:

1.5355e-04	-2.8231e-04	-4.4885e-04	-1.9413e-04
4.8694e-04	-4.9722e-04	-9.2223e-04	-4.1176e-04
7.2988e-04	-7.0233e-05	-7.9362e-04	-4.6988e-04
6.7418e-04	4.2917e-04	-2.5703e-04	-2.6609e-04
1.7187e-04	4.7533e-04	5.7768e-04	2.5953e-04
-4.4315e-04	2.9633e-04	1.3335e-03	7.6810e-04
-4.4160e-04	4.0878e-04	1.5503e-03	8.9289e-04
3.0509e-05	7.3977e-04	1.2076e-03	5.8128e-04
7.4162e-04	8.6282e-04	5.9731e-04	1.7997e-04
1.1818e-03	5.7631e-04	1.0104e-04	-2.9010e-05
5.5286e-04	1.5717e-04	-2.5735e-05	-3.3695e-05
-5.0144e-04	-1.9119e-04	3.3757e-04	2.3725e-04
-9.6779e-04	-2.9778e-04	8.1697e-04	5.6996e-04
-6.6660e-04	7.0988e-05	8.5794e-04	5.1202e-04
-4.3843e-05	4.5124e-04	4.8362e-04	1.5730e-04
5.6325e-04	3.5503e-04	1.3800e-05	-4.5008e-05
8.4908e-04	1.0560e-04	-2.5265e-04	-1.3577e-04
1.0189e-03	2.3093e-04	-2.0967e-04	-1.4909e-04

1.1463e-03	6.3610e-04	-6.2728e-05	-1.4354e-04
6.3610e-04	9.3321e-04	7.8605e-04	2.7501e-04
-6.2728e-05	7.8605e-04	1.6767e-03	8.7154e-04
-1.4354e-04	2.7501e-04	8.7154e-04	4.9520e-04

Iteration 8/100 μ :
0.013273

Iteration 8/100 d:

-0.049197
-0.218370
-0.282285
-0.370242
-0.945648
-1.536618
-1.684876
-1.277455
-1.072388
-1.200401
-0.585517
-0.343852
-0.808020
-0.785468
-0.632285
-0.748632
-0.997165
-1.151396
-0.883825
-1.170681
-1.708734
-0.843795

$\mu = 0.013273 / 2 \rightarrow 0.006636$

Iteration 8/100 w(t):

1.1372	11.1914
2.0080	11.0079
2.7342	11.9315
3.2053	13.3177
2.5338	14.1858
1.8733	14.6886
2.3791	15.2853
4.3661	16.7727
5.9902	16.7286
6.8866	16.1261
9.5459	19.5879

Iteration 8/100 error:
0.47998

Iteration 8/100 gradient:

6.6641e-04
2.9163e-03
3.6433e-03
4.9655e-03
1.2660e-02
2.0471e-02
2.2416e-02
1.7064e-02
1.4217e-02
1.5791e-02
7.6056e-03
4.5408e-03
1.0703e-02
1.0367e-02
8.2838e-03
9.9319e-03
1.3382e-02
1.5235e-02
1.1614e-02
1.5400e-02
2.2810e-02
1.1318e-02

Iteration 8/100 gradient norm:

0.061407

Iteration 9/100 Hessian matrix:

Columns 1 through 6:

3.3937e-04	6.6126e-04	4.3818e-04	5.1770e-05	-2.3624e-04	-2.8960e-04
6.6126e-04	1.4272e-03	1.0445e-03	1.5782e-04	-4.2093e-04	-6.7401e-04
4.3818e-04	1.0445e-03	1.0238e-03	4.7082e-04	-2.2485e-04	-7.7311e-04
5.1770e-05	1.5782e-04	4.7082e-04	6.4601e-04	1.3162e-04	-4.8097e-04
-2.3624e-04	-4.2093e-04	-2.2485e-04	1.3162e-04	3.8528e-04	3.7305e-04
-2.8960e-04	-6.7401e-04	-7.7311e-04	-4.8097e-04	3.7305e-04	1.2986e-03
-3.2919e-04	-7.9608e-04	-9.0423e-04	-5.1662e-04	4.2672e-04	1.4585e-03
-4.8596e-04	-9.6020e-04	-6.8215e-04	-4.9588e-05	5.6612e-04	8.4767e-04
-1.8000e-04	-2.9384e-04	7.4657e-05	4.5546e-04	3.5651e-04	1.0265e-04
3.3004e-04	8.1036e-04	8.4967e-04	4.8587e-04	7.6494e-06	-2.5834e-04
2.2765e-04	5.6588e-04	4.9968e-04	1.5267e-04	-6.1467e-05	-1.5444e-04
-8.6664e-05	-2.1527e-04	-3.4849e-04	-3.5307e-04	4.5586e-05	5.0641e-04
-2.1120e-04	-5.4517e-04	-8.4672e-04	-7.3107e-04	1.8754e-04	1.1196e-03
-3.4194e-04	-8.4533e-04	-8.7386e-04	-3.8983e-04	3.2215e-04	9.4575e-04
-3.5292e-04	-7.2851e-04	-4.0000e-04	1.7064e-04	3.5307e-04	3.0139e-04
5.1720e-05	1.8910e-04	3.1212e-04	3.5519e-04	1.5581e-04	-1.8527e-04
5.0456e-04	1.1173e-03	9.4410e-04	3.0261e-04	-1.8232e-04	-3.2817e-04
5.0407e-04	1.1851e-03	1.0748e-03	3.8243e-04	-1.5001e-04	-3.4572e-04

1.4944e-04	4.8571e-04	7.2620e-04	6.6863e-04	1.7364e-04	-4.5118e-04
-2.8557e-04	-4.9019e-04	-7.3752e-05	4.2378e-04	4.7643e-04	2.9947e-04
-4.5547e-04	-9.4098e-04	-8.1844e-04	-2.7986e-04	5.5642e-04	1.3155e-03
-1.8870e-04	-4.2250e-04	-4.6881e-04	-2.7476e-04	2.4862e-04	7.5562e-04

Columns 7 through 12:

-3.2919e-04	-4.8596e-04	-1.8000e-04	3.3004e-04	2.2765e-04	-8.6664e-05
-7.9608e-04	-9.6020e-04	-2.9384e-04	8.1036e-04	5.6588e-04	-2.1527e-04
-9.0423e-04	-6.8215e-04	7.4657e-05	8.4967e-04	4.9968e-04	-3.4849e-04
-5.1662e-04	-4.9588e-05	4.5546e-04	4.8587e-04	1.5267e-04	-3.5307e-04
4.2672e-04	5.6612e-04	3.5651e-04	7.6494e-06	-6.1467e-05	4.5586e-05
1.4585e-03	8.4767e-04	1.0265e-04	-2.5834e-04	-1.5444e-04	5.0641e-04
1.6900e-03	1.0323e-03	2.3974e-04	-1.9543e-04	-1.4507e-04	5.0671e-04
1.0323e-03	1.1610e-03	6.5228e-04	-5.4029e-05	-1.4741e-04	1.5420e-04
2.3974e-04	6.5228e-04	9.4784e-04	7.9182e-04	2.6987e-04	-2.8565e-04
-1.9543e-04	-5.4029e-05	7.9182e-04	1.6709e-03	8.5869e-04	-4.4333e-04
-1.4507e-04	-1.4741e-04	2.6987e-04	8.5869e-04	4.8918e-04	-1.9406e-04
5.0671e-04	1.5420e-04	-2.8565e-04	-4.4333e-04	-1.9406e-04	3.4136e-04
1.1893e-03	4.9629e-04	-4.9472e-04	-9.3295e-04	-4.2880e-04	6.6863e-04
1.0851e-03	7.3605e-04	-6.6053e-05	-7.9818e-04	-4.7305e-04	4.4541e-04
3.8367e-04	6.7385e-04	4.2303e-04	-2.7352e-04	-2.7044e-04	5.0987e-05
-1.4587e-04	1.7804e-04	4.7122e-04	5.6814e-04	2.4496e-04	-2.3766e-04
-3.4054e-04	-4.4649e-04	2.9932e-04	1.3229e-03	7.5057e-04	-2.9055e-04
-3.8063e-04	-4.3046e-04	4.0556e-04	1.5466e-03	8.7768e-04	-3.2951e-04
-4.3174e-04	3.9196e-05	7.4346e-04	1.1911e-03	5.7082e-04	-4.8935e-04
4.0962e-04	7.4561e-04	8.7229e-04	5.9144e-04	1.7180e-04	-1.8033e-04
1.5362e-03	1.1867e-03	5.8192e-04	1.0599e-04	-2.5174e-05	3.2599e-04
8.7859e-04	5.7603e-04	1.7625e-04	-1.4500e-05	-2.1616e-05	2.3217e-04

Columns 13 through 18:

-2.1120e-04	-3.4194e-04	-3.5292e-04	5.1720e-05	5.0456e-04	5.0407e-04
-5.4517e-04	-8.4533e-04	-7.2851e-04	1.8910e-04	1.1173e-03	1.1851e-03
-8.4672e-04	-8.7386e-04	-4.0000e-04	3.1212e-04	9.4410e-04	1.0748e-03
-7.3107e-04	-3.8983e-04	1.7064e-04	3.5519e-04	3.0261e-04	3.8243e-04
1.8754e-04	3.2215e-04	3.5307e-04	1.5581e-04	-1.8232e-04	-1.5001e-04
1.1196e-03	9.4575e-04	3.0139e-04	-1.8527e-04	-3.2817e-04	-3.4572e-04
1.1893e-03	1.0851e-03	3.8367e-04	-1.4587e-04	-3.4054e-04	-3.8063e-04
4.9629e-04	7.3605e-04	6.7385e-04	1.7804e-04	-4.4649e-04	-4.3046e-04
-4.9472e-04	-6.6053e-05	4.2303e-04	4.7122e-04	2.9932e-04	4.0556e-04
-9.3295e-04	-7.9818e-04	-2.7352e-04	5.6814e-04	1.3229e-03	1.5466e-03
-4.2880e-04	-4.7305e-04	-2.7044e-04	2.4496e-04	7.5057e-04	8.7768e-04
6.6863e-04	4.4541e-04	5.0987e-05	-2.3766e-04	-2.9055e-04	-3.2951e-04
1.4348e-03	1.0522e-03	1.6136e-04	-4.1609e-04	-6.6824e-04	-7.9294e-04
1.0522e-03	1.0373e-03	4.7439e-04	-2.1088e-04	-7.6210e-04	-8.9772e-04
1.6136e-04	4.7439e-04	6.4654e-04	1.3740e-04	-4.8104e-04	-5.1464e-04
-4.1609e-04	-2.1088e-04	1.3740e-04	3.9164e-04	3.7287e-04	4.2646e-04
-6.6824e-04	-7.6210e-04	-4.8104e-04	3.7287e-04	1.3031e-03	1.4542e-03

-7.9294e-04	-8.9772e-04	-5.1464e-04	4.2646e-04	1.4542e-03	1.6871e-03
-9.5504e-04	-6.7533e-04	-4.6868e-05	5.6687e-04	8.4538e-04	1.0342e-03
-2.9052e-04	8.2162e-05	4.5526e-04	3.6295e-04	1.0399e-04	2.4000e-04
8.1222e-04	8.4619e-04	4.8312e-04	-1.5543e-07	-2.7050e-04	-2.1065e-04
5.7599e-04	5.1034e-04	1.5777e-04	-5.3108e-05	-1.4503e-04	-1.4325e-04

Columns 19 through 22:

1.4944e-04	-2.8557e-04	-4.5547e-04	-1.8870e-04
4.8571e-04	-4.9019e-04	-9.4098e-04	-4.2250e-04
7.2620e-04	-7.3752e-05	-8.1844e-04	-4.6881e-04
6.6863e-04	4.2378e-04	-2.7986e-04	-2.7476e-04
1.7364e-04	4.7643e-04	5.5642e-04	2.4862e-04
-4.5118e-04	2.9947e-04	1.3155e-03	7.5562e-04
-4.3174e-04	4.0962e-04	1.5362e-03	8.7859e-04
3.9196e-05	7.4561e-04	1.1867e-03	5.7603e-04
7.4346e-04	8.7229e-04	5.8192e-04	1.7625e-04
1.1911e-03	5.9144e-04	1.0599e-04	-1.4500e-05
5.7082e-04	1.7180e-04	-2.5174e-05	-2.1616e-05
-4.8935e-04	-1.8033e-04	3.2599e-04	2.3217e-04
-9.5504e-04	-2.9052e-04	8.1222e-04	5.7599e-04
-6.7533e-04	8.2162e-05	8.4619e-04	5.1034e-04
-4.6868e-05	4.5526e-04	4.8312e-04	1.5777e-04
5.6687e-04	3.6295e-04	-1.5543e-07	-5.3108e-05
8.4538e-04	1.0399e-04	-2.7050e-04	-1.4503e-04
1.0342e-03	2.4000e-04	-2.1065e-04	-1.4325e-04
1.1581e-03	6.5202e-04	-6.7263e-05	-1.4214e-04
6.5202e-04	9.4808e-04	7.8562e-04	2.7842e-04
-6.7263e-05	7.8562e-04	1.6532e-03	8.5424e-04
-1.4214e-04	2.7842e-04	8.5424e-04	4.9198e-04

Iteration 9/100 μ :
0.0066363

Iteration 9/100 d:
-0.28818
-0.73705
-0.72314
-0.63443
-1.18756
-1.74266
-1.75942
-1.25949
-0.98829
-1.16077
-0.60869
-0.55312
-1.17819
-1.01579

-0.80619
-0.98863
-1.32319
-1.41069
-0.97267
-1.08948
-1.61358
-0.78843

$$\mu = 0.006636 / 2 \rightarrow 0.003318$$

Iteration 9/100 w(t):

0.84906	10.63833
1.27096	9.82970
2.01105	10.91570
2.57086	12.51150
1.34623	13.19722
0.13063	13.36543
0.61970	13.87457
3.10658	15.80002
5.00191	15.63907
5.72582	14.51247
8.93720	18.79945

Iteration 9/100 error:

0.23542

Iteration 9/100 gradient:

0.0018795
0.0048162
0.0046124
0.0040479
0.0077750
0.0114998
0.0117609
0.0083515
0.0064903
0.0077854
0.0039828
0.0036474
0.0078185
0.0067219
0.0052128
0.0064959
0.0087441
0.0094128
0.0064035
0.0072016
0.0105815

0.0052809

Iteration 9/100 gradient norm:
0.034213

Iteration 10/100 Hessian matrix:
Columns 1 through 6:

3.3593e-04	6.6139e-04	4.4403e-04	4.7540e-05	-2.3474e-04	-2.9199e-04
6.6139e-04	1.4298e-03	1.0483e-03	1.6213e-04	-4.1276e-04	-6.7198e-04
4.4403e-04	1.0483e-03	1.0331e-03	4.7864e-04	-2.1196e-04	-7.6721e-04
4.7540e-05	1.6213e-04	4.7864e-04	6.5580e-04	1.3747e-04	-4.8049e-04
-2.3474e-04	-4.1276e-04	-2.1196e-04	1.3747e-04	3.9672e-04	3.7910e-04
-2.9199e-04	-6.7198e-04	-7.6721e-04	-4.8049e-04	3.7910e-04	1.3039e-03
-3.3457e-04	-8.0522e-04	-9.0882e-04	-5.1583e-04	4.2375e-04	1.4495e-03
-4.8758e-04	-9.5513e-04	-6.7442e-04	-4.7862e-05	5.6891e-04	8.4838e-04
-1.8107e-04	-2.9295e-04	7.6850e-05	4.6420e-04	3.6468e-04	1.0638e-04
3.2957e-04	8.1481e-04	8.5283e-04	4.8425e-04	6.3921e-06	-2.6918e-04
2.2723e-04	5.6777e-04	5.0664e-04	1.6291e-04	-5.2802e-05	-1.4891e-04
-8.8687e-05	-2.1600e-04	-3.4892e-04	-3.4841e-04	5.1859e-05	5.0766e-04
-2.1562e-04	-5.4739e-04	-8.4416e-04	-7.2653e-04	1.9482e-04	1.1212e-03
-3.4223e-04	-8.4324e-04	-8.6792e-04	-3.8748e-04	3.2681e-04	9.4718e-04
-3.4975e-04	-7.2511e-04	-3.8805e-04	1.8229e-04	3.5945e-04	3.1031e-04
4.8500e-05	1.9239e-04	3.2439e-04	3.5917e-04	1.6533e-04	-1.7870e-04
5.0305e-04	1.1172e-03	9.3970e-04	3.0422e-04	-1.8119e-04	-3.2275e-04
4.9988e-04	1.1842e-03	1.0733e-03	3.8337e-04	-1.5106e-04	-3.4611e-04
1.4997e-04	4.9193e-04	7.3711e-04	6.7287e-04	1.7767e-04	-4.4411e-04
-2.8819e-04	-4.9346e-04	-6.5942e-05	4.3106e-04	4.7440e-04	3.0103e-04
-4.5379e-04	-9.3915e-04	-8.0498e-04	-2.7407e-04	5.6059e-04	1.3221e-03
-1.9248e-04	-4.2506e-04	-4.7424e-04	-2.7072e-04	2.4795e-04	7.5825e-04

Columns 7 through 12:

-3.3457e-04	-4.8758e-04	-1.8107e-04	3.2957e-04	2.2723e-04	-8.8687e-05
-8.0522e-04	-9.5513e-04	-2.9295e-04	8.1481e-04	5.6777e-04	-2.1600e-04
-9.0882e-04	-6.7442e-04	7.6850e-05	8.5283e-04	5.0664e-04	-3.4892e-04
-5.1583e-04	-4.7862e-05	4.6420e-04	4.8425e-04	1.6291e-04	-3.4841e-04
4.2375e-04	5.6891e-04	3.6468e-04	6.3921e-06	-5.2802e-05	5.1859e-05
1.4495e-03	8.4838e-04	1.0638e-04	-2.6918e-04	-1.4891e-04	5.0766e-04
1.6819e-03	1.0282e-03	2.3616e-04	-2.0637e-04	-1.4695e-04	5.0454e-04
1.0282e-03	1.1587e-03	6.5494e-04	-6.1789e-05	-1.4605e-04	1.5397e-04
2.3616e-04	6.5494e-04	9.5113e-04	7.9155e-04	2.7585e-04	-2.8491e-04
-2.0637e-04	-6.1789e-05	7.9155e-04	1.6637e-03	8.5877e-04	-4.4965e-04
-1.4695e-04	-1.4605e-04	2.7585e-04	8.5877e-04	4.9050e-04	-1.9550e-04
5.0454e-04	1.5397e-04	-2.8491e-04	-4.4965e-04	-1.9550e-04	3.3956e-04
1.1858e-03	4.9287e-04	-4.9100e-04	-9.3422e-04	-4.2522e-04	6.6581e-04
1.0774e-03	7.3950e-04	-6.1165e-05	-8.0087e-04	-4.6933e-04	4.4288e-04
3.8332e-04	6.7541e-04	4.3114e-04	-2.7038e-04	-2.7056e-04	5.2230e-05
-1.5257e-04	1.7449e-04	4.7355e-04	5.6332e-04	2.5099e-04	-2.3470e-04

-3.4884e-04	-4.4652e-04	2.9651e-04	1.3204e-03	7.5178e-04	-2.9300e-04
-3.8323e-04	-4.3653e-04	4.0548e-04	1.5392e-03	8.7583e-04	-3.3319e-04
-4.4025e-04	3.3515e-05	7.4624e-04	1.1870e-03	5.7736e-04	-4.8558e-04
4.0426e-04	7.4470e-04	8.7401e-04	5.8614e-04	1.7309e-04	-1.8303e-04
1.5373e-03	1.1889e-03	5.8481e-04	1.0799e-04	-2.5371e-05	3.3117e-04
8.7592e-04	5.7395e-04	1.7408e-04	-1.9604e-05	-2.3734e-05	2.2795e-04

Columns 13 through 18:

-2.1562e-04	-3.4223e-04	-3.4975e-04	4.8500e-05	5.0305e-04	4.9988e-04
-5.4739e-04	-8.4324e-04	-7.2511e-04	1.9239e-04	1.1172e-03	1.1842e-03
-8.4416e-04	-8.6792e-04	-3.8805e-04	3.2439e-04	9.3970e-04	1.0733e-03
-7.2653e-04	-3.8748e-04	1.8229e-04	3.5917e-04	3.0422e-04	3.8337e-04
1.9482e-04	3.2681e-04	3.5945e-04	1.6533e-04	-1.8119e-04	-1.5106e-04
1.1212e-03	9.4718e-04	3.1031e-04	-1.7870e-04	-3.2275e-04	-3.4611e-04
1.1858e-03	1.0774e-03	3.8332e-04	-1.5257e-04	-3.4884e-04	-3.8323e-04
4.9287e-04	7.3950e-04	6.7541e-04	1.7449e-04	-4.4652e-04	-4.3653e-04
-4.9100e-04	-6.1165e-05	4.3114e-04	4.7355e-04	2.9651e-04	4.0548e-04
-9.3422e-04	-8.0087e-04	-2.7038e-04	5.6332e-04	1.3204e-03	1.5392e-03
-4.2522e-04	-4.6933e-04	-2.7056e-04	2.5099e-04	7.5178e-04	8.7583e-04
6.6581e-04	4.4288e-04	5.2230e-05	-2.3470e-04	-2.9300e-04	-3.3319e-04
1.4344e-03	1.0534e-03	1.6282e-04	-4.1150e-04	-6.7407e-04	-7.9937e-04
1.0534e-03	1.0419e-03	4.8718e-04	-2.1018e-04	-7.6444e-04	-9.0402e-04
1.6282e-04	4.8718e-04	6.6228e-04	1.3992e-04	-4.8055e-04	-5.1258e-04
-4.1150e-04	-2.1018e-04	1.3992e-04	3.9451e-04	3.7424e-04	4.2239e-04
-6.7407e-04	-7.6444e-04	-4.8055e-04	3.7424e-04	1.2975e-03	1.4478e-03
-7.9937e-04	-9.0402e-04	-5.1258e-04	4.2239e-04	1.4478e-03	1.6777e-03
-9.5086e-04	-6.7264e-04	-4.1017e-05	5.6879e-04	8.4549e-04	1.0272e-03
-2.8789e-04	8.3242e-05	4.6866e-04	3.6058e-04	1.0329e-04	2.3891e-04
8.1198e-04	8.5212e-04	4.8639e-04	4.0357e-06	-2.7262e-04	-2.0968e-04
5.7027e-04	5.0783e-04	1.6291e-04	-4.9483e-05	-1.5060e-04	-1.4678e-04

Columns 19 through 22:

1.4997e-04	-2.8819e-04	-4.5379e-04	-1.9248e-04
4.9193e-04	-4.9346e-04	-9.3915e-04	-4.2506e-04
7.3711e-04	-6.5942e-05	-8.0498e-04	-4.7424e-04
6.7287e-04	4.3106e-04	-2.7407e-04	-2.7072e-04
1.7767e-04	4.7440e-04	5.6059e-04	2.4795e-04
-4.4411e-04	3.0103e-04	1.3221e-03	7.5825e-04
-4.4025e-04	4.0426e-04	1.5373e-03	8.7592e-04
3.3515e-05	7.4470e-04	1.1889e-03	5.7395e-04
7.4624e-04	8.7401e-04	5.8481e-04	1.7408e-04
1.1870e-03	5.8614e-04	1.0799e-04	-1.9604e-05
5.7736e-04	1.7309e-04	-2.5371e-05	-2.3734e-05
-4.8558e-04	-1.8303e-04	3.3117e-04	2.2795e-04
-9.5086e-04	-2.8789e-04	8.1198e-04	5.7027e-04
-6.7264e-04	8.3242e-05	8.5212e-04	5.0783e-04
-4.1017e-05	4.6866e-04	4.8639e-04	1.6291e-04

5.6879e-04	3.6058e-04	4.0357e-06	-4.9483e-05
8.4549e-04	1.0329e-04	-2.7262e-04	-1.5060e-04
1.0272e-03	2.3891e-04	-2.0968e-04	-1.4678e-04
1.1571e-03	6.5679e-04	-6.4382e-05	-1.4172e-04
6.5679e-04	9.5384e-04	7.8670e-04	2.7727e-04
-6.4382e-05	7.8670e-04	1.6618e-03	8.5739e-04
-1.4172e-04	2.7727e-04	8.5739e-04	4.9122e-04

Iteration 10/100 μ :
0.0033181

Iteration 10/100 d:

-0.60536
-1.36979
-1.28125
-0.99993
-1.32922
-1.54521
-1.32500
-0.87807
-0.46917
-0.50826
-0.30264
-0.83883
-1.61579
-1.28165
-1.04992
-1.15079
-1.31987
-1.25829
-0.75645
-0.61034
-0.79094
-0.36578

$\mu = 0.003318 / 2 \rightarrow 0.001659$

Iteration 10/100 w(t):

0.243700	9.799495
-0.098837	8.213905
0.729798	9.634057
1.570931	11.461579
0.017016	12.046428
-1.414588	12.045567
-0.705301	12.616281
2.228507	15.043567
4.532741	15.028728
5.217567	13.721537
8.634560	18.433675

Iteration 10/100 error:
0.11650

Iteration 10/100 gradient:

0.0019417
0.0044952
0.0041778
0.0032446
0.0043973
0.0051067
0.0043621
0.0028866
0.0015309
0.0016801
0.0010032
0.0027469
0.0053538
0.0042567
0.0034625
0.0037903
0.0042965
0.0041485
0.0024878
0.0020050
0.0025740
0.0012272

Iteration 10/100 gradient norm:
0.016297

Iteration 11/100 Hessian matrix:
Columns 1 through 6:

3.4156e-04	6.6865e-04	4.4527e-04	5.3746e-05	-2.3125e-04	-2.8794e-04
6.6865e-04	1.4329e-03	1.0516e-03	1.6480e-04	-4.1022e-04	-6.7215e-04
4.4527e-04	1.0516e-03	1.0364e-03	4.8432e-04	-2.1119e-04	-7.6722e-04
5.3746e-05	1.6480e-04	4.8432e-04	6.5952e-04	1.4086e-04	-4.8005e-04
-2.3125e-04	-4.1022e-04	-2.1119e-04	1.4086e-04	3.9550e-04	3.7935e-04
-2.8794e-04	-6.7215e-04	-7.6722e-04	-4.8005e-04	3.7935e-04	1.3021e-03
-3.3153e-04	-8.0144e-04	-9.0852e-04	-5.1468e-04	4.2495e-04	1.4498e-03
-4.8772e-04	-9.5151e-04	-6.7260e-04	-4.1449e-05	5.6908e-04	8.4870e-04
-1.7869e-04	-2.8685e-04	8.1388e-05	4.6620e-04	3.6345e-04	1.0475e-04
3.3344e-04	8.1462e-04	8.5481e-04	4.8844e-04	8.6667e-06	-2.6923e-04
2.3082e-04	5.7083e-04	5.0799e-04	1.6262e-04	-5.2656e-05	-1.4965e-04
-8.4299e-05	-2.1231e-04	-3.4439e-04	-3.4720e-04	5.1613e-05	5.0430e-04
-2.1337e-04	-5.4650e-04	-8.4315e-04	-7.2285e-04	1.9477e-04	1.1213e-03
-3.4128e-04	-8.4088e-04	-8.6735e-04	-3.8579e-04	3.2726e-04	9.4674e-04
-3.4487e-04	-7.2209e-04	-3.8491e-04	1.8638e-04	3.6277e-04	3.1003e-04

5.3185e-05	1.9739e-04	3.2651e-04	3.6194e-04	1.6594e-04	-1.7921e-04
5.0802e-04	1.1223e-03	9.4764e-04	3.1156e-04	-1.7836e-04	-3.2476e-04
5.0452e-04	1.1876e-03	1.0760e-03	3.8754e-04	-1.5001e-04	-3.4743e-04
1.5597e-04	4.9474e-04	7.3893e-04	6.7923e-04	1.8067e-04	-4.4365e-04
-2.8563e-04	-4.9123e-04	-6.3545e-05	4.3454e-04	4.7604e-04	3.0172e-04
-4.5041e-04	-9.3688e-04	-8.0400e-04	-2.7259e-04	5.6306e-04	1.3208e-03
-1.9213e-04	-4.2407e-04	-4.7134e-04	-2.7001e-04	2.5013e-04	7.5488e-04

Columns 7 through 12:

-3.3153e-04	-4.8772e-04	-1.7869e-04	3.3344e-04	2.3082e-04	-8.4299e-05
-8.0144e-04	-9.5151e-04	-2.8685e-04	8.1462e-04	5.7083e-04	-2.1231e-04
-9.0852e-04	-6.7260e-04	8.1388e-05	8.5481e-04	5.0799e-04	-3.4439e-04
-5.1468e-04	-4.1449e-05	4.6620e-04	4.8844e-04	1.6262e-04	-3.4720e-04
4.2495e-04	5.6908e-04	3.6345e-04	8.6667e-06	-5.2656e-05	5.1613e-05
1.4498e-03	8.4870e-04	1.0475e-04	-2.6923e-04	-1.4965e-04	5.0430e-04
1.6822e-03	1.0273e-03	2.3727e-04	-2.0459e-04	-1.4884e-04	5.0329e-04
1.0273e-03	1.1565e-03	6.5638e-04	-6.1876e-05	-1.4240e-04	1.5472e-04
2.3727e-04	6.5638e-04	9.5115e-04	7.8966e-04	2.7598e-04	-2.8379e-04
-2.0459e-04	-6.1876e-05	7.8966e-04	1.6655e-03	8.6079e-04	-4.4998e-04
-1.4884e-04	-1.4240e-04	2.7598e-04	8.6079e-04	4.9030e-04	-1.9200e-04
5.0329e-04	1.5472e-04	-2.8379e-04	-4.4998e-04	-1.9200e-04	3.4181e-04
1.1861e-03	4.9278e-04	-4.9060e-04	-9.3417e-04	-4.2417e-04	6.6650e-04
1.0758e-03	7.3905e-04	-6.3999e-05	-8.0134e-04	-4.6957e-04	4.4614e-04
3.8827e-04	6.7798e-04	4.3483e-04	-2.7004e-04	-2.6909e-04	5.3664e-05
-1.5082e-04	1.7933e-04	4.7649e-04	5.6459e-04	2.5182e-04	-2.3067e-04
-3.4595e-04	-4.4389e-04	3.0198e-04	1.3231e-03	7.5610e-04	-2.8786e-04
-3.8226e-04	-4.3747e-04	4.0592e-04	1.5405e-03	8.7777e-04	-3.2942e-04
-4.3728e-04	3.8120e-05	7.4704e-04	1.1928e-03	5.7549e-04	-4.8602e-04
4.0508e-04	7.4680e-04	8.7365e-04	5.8800e-04	1.7471e-04	-1.7832e-04
1.5368e-03	1.1904e-03	5.8659e-04	1.0734e-04	-2.0559e-05	3.3099e-04
8.7625e-04	5.7329e-04	1.7374e-04	-2.0756e-05	-2.2767e-05	2.3022e-04

Columns 13 through 18:

-2.1337e-04	-3.4128e-04	-3.4487e-04	5.3185e-05	5.0802e-04	5.0452e-04
-5.4650e-04	-8.4088e-04	-7.2209e-04	1.9739e-04	1.1223e-03	1.1876e-03
-8.4315e-04	-8.6735e-04	-3.8491e-04	3.2651e-04	9.4764e-04	1.0760e-03
-7.2285e-04	-3.8579e-04	1.8638e-04	3.6194e-04	3.1156e-04	3.8754e-04
1.9477e-04	3.2726e-04	3.6277e-04	1.6594e-04	-1.7836e-04	-1.5001e-04
1.1213e-03	9.4674e-04	3.1003e-04	-1.7921e-04	-3.2476e-04	-3.4743e-04
1.1861e-03	1.0758e-03	3.8827e-04	-1.5082e-04	-3.4595e-04	-3.8226e-04
4.9278e-04	7.3905e-04	6.7798e-04	1.7933e-04	-4.4389e-04	-4.3747e-04
-4.9060e-04	-6.3999e-05	4.3483e-04	4.7649e-04	3.0198e-04	4.0592e-04
-9.3417e-04	-8.0134e-04	-2.7004e-04	5.6459e-04	1.3231e-03	1.5405e-03
-4.2417e-04	-4.6957e-04	-2.6909e-04	2.5182e-04	7.5610e-04	8.7777e-04
6.6650e-04	4.4614e-04	5.3664e-05	-2.3067e-04	-2.8786e-04	-3.2942e-04
1.4327e-03	1.0533e-03	1.6727e-04	-4.0955e-04	-6.7084e-04	-7.9916e-04
1.0533e-03	1.0402e-03	4.8612e-04	-2.0886e-04	-7.6336e-04	-9.0478e-04

1.6727e-04	4.8612e-04	6.6265e-04	1.4472e-04	-4.7498e-04	-5.1050e-04
-4.0955e-04	-2.0886e-04	1.4472e-04	3.9930e-04	3.8262e-04	4.2678e-04
-6.7084e-04	-7.6336e-04	-4.7498e-04	3.8262e-04	1.3059e-03	1.4534e-03
-7.9916e-04	-9.0478e-04	-5.1050e-04	4.2678e-04	1.4534e-03	1.6864e-03
-9.5030e-04	-6.6929e-04	-3.8963e-05	5.7231e-04	8.5076e-04	1.0315e-03
-2.8768e-04	8.4041e-05	4.6952e-04	3.6564e-04	1.0573e-04	2.3851e-04
8.1252e-04	8.5557e-04	4.8959e-04	8.5792e-06	-2.6719e-04	-2.0562e-04
5.6878e-04	5.0896e-04	1.6332e-04	-5.0798e-05	-1.4735e-04	-1.4433e-04

Columns 19 through 22:

1.5597e-04	-2.8563e-04	-4.5041e-04	-1.9213e-04
4.9474e-04	-4.9123e-04	-9.3688e-04	-4.2407e-04
7.3893e-04	-6.3545e-05	-8.0400e-04	-4.7134e-04
6.7923e-04	4.3454e-04	-2.7259e-04	-2.7001e-04
1.8067e-04	4.7604e-04	5.6306e-04	2.5013e-04
-4.4365e-04	3.0172e-04	1.3208e-03	7.5488e-04
-4.3728e-04	4.0508e-04	1.5368e-03	8.7625e-04
3.8120e-05	7.4680e-04	1.1904e-03	5.7329e-04
7.4704e-04	8.7365e-04	5.8659e-04	1.7374e-04
1.1928e-03	5.8800e-04	1.0734e-04	-2.0756e-05
5.7549e-04	1.7471e-04	-2.0559e-05	-2.2767e-05
-4.8602e-04	-1.7832e-04	3.3099e-04	2.3022e-04
-9.5030e-04	-2.8768e-04	8.1252e-04	5.6878e-04
-6.6929e-04	8.4041e-05	8.5557e-04	5.0896e-04
-3.8963e-05	4.6952e-04	4.8959e-04	1.6332e-04
5.7231e-04	3.6564e-04	8.5792e-06	-5.0798e-05
8.5076e-04	1.0573e-04	-2.6719e-04	-1.4735e-04
1.0315e-03	2.3851e-04	-2.0562e-04	-1.4433e-04
1.1607e-03	6.5711e-04	-6.2322e-05	-1.4114e-04
6.5711e-04	9.5250e-04	7.8921e-04	2.7575e-04
-6.2322e-05	7.8921e-04	1.6623e-03	8.5948e-04
-1.4114e-04	2.7575e-04	8.5948e-04	4.9032e-04

Iteration 11/100 μ :
0.0016591

Iteration 11/100 d:
-0.783480
-1.791420
-1.824007
-1.518880
-1.544957
-1.173071
-0.591899
-0.466308
0.068022
0.459902
0.196447

-1.090889
-1.949557
-1.557021
-1.492986
-1.305166
-0.993924
-0.766434
-0.444720
-0.141776
0.239330
0.230951

$$\mu = 0.001659 / 2 \rightarrow 0.000830$$

Iteration 11/100 w(t):

-0.539780	8.708605
-1.890258	6.264347
-1.094209	8.077036
0.052052	9.968594
-1.527942	10.741262
-2.587659	11.051643
-1.297199	11.849847
1.762199	14.598847
4.600763	14.886951
5.677469	13.960868
8.831007	18.664626

Iteration 11/100 error:

0.055854

Iteration 11/100 gradient:

1.3118e-03
2.9838e-03
3.0088e-03
2.5197e-03
2.5735e-03
1.9197e-03
9.7220e-04
7.7673e-04
-1.0893e-04
-7.4562e-04
-3.0317e-04
1.8085e-03
3.2427e-03
2.5947e-03
2.5069e-03
2.2000e-03
1.6608e-03
1.2924e-03

7.7278e-04
2.4781e-04
-4.0290e-04
-3.6319e-04

Iteration 11/100 gradient norm:
0.0086929

Iteration 12/100 Hessian matrix:
Columns 1 through 6:

3.4395e-04	6.6882e-04	4.4747e-04	5.5791e-05	-2.3076e-04	-2.8757e-04
6.6882e-04	1.4333e-03	1.0519e-03	1.6647e-04	-4.1028e-04	-6.7131e-04
4.4747e-04	1.0519e-03	1.0380e-03	4.8464e-04	-2.1104e-04	-7.6368e-04
5.5791e-05	1.6647e-04	4.8464e-04	6.6031e-04	1.4097e-04	-4.7773e-04
-2.3076e-04	-4.1028e-04	-2.1104e-04	1.4097e-04	3.9610e-04	3.8019e-04
-2.8757e-04	-6.7131e-04	-7.6368e-04	-4.7773e-04	3.8019e-04	1.3042e-03
-3.2865e-04	-7.9933e-04	-9.0533e-04	-5.1279e-04	4.2529e-04	1.4522e-03
-4.8448e-04	-9.5048e-04	-6.7034e-04	-3.9469e-05	5.6970e-04	8.5119e-04
-1.7793e-04	-2.8799e-04	8.2168e-05	4.6751e-04	3.6295e-04	1.0641e-04
3.3352e-04	8.1444e-04	8.5503e-04	4.8827e-04	6.6495e-06	-2.6861e-04
2.3082e-04	5.7016e-04	5.0732e-04	1.6180e-04	-5.4393e-05	-1.4917e-04
-8.2964e-05	-2.1299e-04	-3.4231e-04	-3.4667e-04	5.2008e-05	5.0674e-04
-2.1242e-04	-5.4664e-04	-8.4197e-04	-7.2316e-04	1.9423e-04	1.1216e-03
-3.4127e-04	-8.4174e-04	-8.6867e-04	-3.8508e-04	3.2559e-04	9.4822e-04
-3.4471e-04	-7.2320e-04	-3.8507e-04	1.8556e-04	3.6119e-04	3.1098e-04
5.3196e-05	1.9489e-04	3.2583e-04	3.6057e-04	1.6529e-04	-1.7962e-04
5.0794e-04	1.1226e-03	9.4867e-04	3.1096e-04	-1.7906e-04	-3.2380e-04
5.0511e-04	1.1866e-03	1.0756e-03	3.8787e-04	-1.5133e-04	-3.4709e-04
1.5513e-04	4.9414e-04	7.3876e-04	6.7830e-04	1.7803e-04	-4.4415e-04
-2.8344e-04	-4.8964e-04	-6.2859e-05	4.3537e-04	4.7659e-04	3.0271e-04
-4.5034e-04	-9.3651e-04	-8.0261e-04	-2.7161e-04	5.6299e-04	1.3227e-03
-1.9224e-04	-4.2486e-04	-4.7155e-04	-2.7100e-04	2.4954e-04	7.5515e-04

Columns 7 through 12:

-3.2865e-04	-4.8448e-04	-1.7793e-04	3.3352e-04	2.3082e-04	-8.2964e-05
-7.9933e-04	-9.5048e-04	-2.8799e-04	8.1444e-04	5.7016e-04	-2.1299e-04
-9.0533e-04	-6.7034e-04	8.2168e-05	8.5503e-04	5.0732e-04	-3.4231e-04
-5.1279e-04	-3.9469e-05	4.6751e-04	4.8827e-04	1.6180e-04	-3.4667e-04
4.2529e-04	5.6970e-04	3.6295e-04	6.6495e-06	-5.4393e-05	5.2008e-05
1.4522e-03	8.5119e-04	1.0641e-04	-2.6861e-04	-1.4917e-04	5.0674e-04
1.6848e-03	1.0315e-03	2.3958e-04	-2.0516e-04	-1.4708e-04	5.0473e-04
1.0315e-03	1.1612e-03	6.5768e-04	-6.0281e-05	-1.4198e-04	1.5572e-04
2.3958e-04	6.5768e-04	9.5142e-04	7.9005e-04	2.7508e-04	-2.8519e-04
-2.0516e-04	-6.0281e-05	7.9005e-04	1.6644e-03	8.5877e-04	-4.5072e-04
-1.4708e-04	-1.4198e-04	2.7508e-04	8.5877e-04	4.8861e-04	-1.9272e-04
5.0473e-04	1.5572e-04	-2.8519e-04	-4.5072e-04	-1.9272e-04	3.4143e-04
1.1865e-03	4.9503e-04	-4.9056e-04	-9.3669e-04	-4.2562e-04	6.6665e-04

1.0759e-03	7.4000e-04	-6.4217e-05	-8.0270e-04	-4.7138e-04	4.4585e-04
3.8723e-04	6.7907e-04	4.3521e-04	-2.7143e-04	-2.7100e-04	5.3436e-05
-1.5057e-04	1.7931e-04	4.7632e-04	5.6331e-04	2.4907e-04	-2.3229e-04
-3.4498e-04	-4.4276e-04	3.0194e-04	1.3232e-03	7.5643e-04	-2.8876e-04
-3.8218e-04	-4.3630e-04	4.0524e-04	1.5385e-03	8.7502e-04	-3.3032e-04
-4.3589e-04	3.8484e-05	7.4728e-04	1.1905e-03	5.7421e-04	-4.8710e-04
4.0680e-04	7.4771e-04	8.7434e-04	5.8749e-04	1.7406e-04	-1.7825e-04
1.5392e-03	1.1915e-03	5.8728e-04	1.0756e-04	-2.2138e-05	3.3101e-04
8.7601e-04	5.7438e-04	1.7385e-04	-2.1940e-05	-2.3724e-05	2.2960e-04

Columns 13 through 18:

-2.1242e-04	-3.4127e-04	-3.4471e-04	5.3196e-05	5.0794e-04	5.0511e-04
-5.4664e-04	-8.4174e-04	-7.2320e-04	1.9489e-04	1.1226e-03	1.1866e-03
-8.4197e-04	-8.6867e-04	-3.8507e-04	3.2583e-04	9.4867e-04	1.0756e-03
-7.2316e-04	-3.8508e-04	1.8556e-04	3.6057e-04	3.1096e-04	3.8787e-04
1.9423e-04	3.2559e-04	3.6119e-04	1.6529e-04	-1.7906e-04	-1.5133e-04
1.1216e-03	9.4822e-04	3.1098e-04	-1.7962e-04	-3.2380e-04	-3.4709e-04
1.1865e-03	1.0759e-03	3.8723e-04	-1.5057e-04	-3.4498e-04	-3.8218e-04
4.9503e-04	7.4000e-04	6.7907e-04	1.7931e-04	-4.4276e-04	-4.3630e-04
-4.9056e-04	-6.4217e-05	4.3521e-04	4.7632e-04	3.0194e-04	4.0524e-04
-9.3669e-04	-8.0270e-04	-2.7143e-04	5.6331e-04	1.3232e-03	1.5385e-03
-4.2562e-04	-4.7138e-04	-2.7100e-04	2.4907e-04	7.5643e-04	8.7502e-04
6.6665e-04	4.4585e-04	5.3436e-05	-2.3229e-04	-2.8876e-04	-3.3032e-04
1.4323e-03	1.0512e-03	1.6540e-04	-4.1142e-04	-6.7131e-04	-8.0075e-04
1.0512e-03	1.0370e-03	4.8394e-04	-2.1156e-04	-7.6445e-04	-9.0724e-04
1.6540e-04	4.8394e-04	6.6025e-04	1.4075e-04	-4.7735e-04	-5.1371e-04
-4.1142e-04	-2.1156e-04	1.4075e-04	3.9628e-04	3.8013e-04	4.2497e-04
-6.7131e-04	-7.6445e-04	-4.7735e-04	3.8013e-04	1.3045e-03	1.4521e-03
-8.0075e-04	-9.0724e-04	-5.1371e-04	4.2497e-04	1.4521e-03	1.6832e-03
-9.5215e-04	-6.7141e-04	-4.0410e-05	5.6983e-04	8.4973e-04	1.0295e-03
-2.8831e-04	8.2467e-05	4.6815e-04	3.6409e-04	1.0620e-04	2.3859e-04
8.1315e-04	8.5487e-04	4.8726e-04	6.6072e-06	-2.6749e-04	-2.0615e-04
5.6864e-04	5.0617e-04	1.6136e-04	-5.4159e-05	-1.4810e-04	-1.4829e-04

Columns 19 through 22:

1.5513e-04	-2.8344e-04	-4.5034e-04	-1.9224e-04
4.9414e-04	-4.8964e-04	-9.3651e-04	-4.2486e-04
7.3876e-04	-6.2859e-05	-8.0261e-04	-4.7155e-04
6.7830e-04	4.3537e-04	-2.7161e-04	-2.7100e-04
1.7803e-04	4.7659e-04	5.6299e-04	2.4954e-04
-4.4415e-04	3.0271e-04	1.3227e-03	7.5515e-04
-4.3589e-04	4.0680e-04	1.5392e-03	8.7601e-04
3.8484e-05	7.4771e-04	1.1915e-03	5.7438e-04
7.4728e-04	8.7434e-04	5.8728e-04	1.7385e-04
1.1905e-03	5.8749e-04	1.0756e-04	-2.1940e-05
5.7421e-04	1.7406e-04	-2.2138e-05	-2.3724e-05
-4.8710e-04	-1.7825e-04	3.3101e-04	2.2960e-04

-9.5215e-04	-2.8831e-04	8.1315e-04	5.6864e-04
-6.7141e-04	8.2467e-05	8.5487e-04	5.0617e-04
-4.0410e-05	4.6815e-04	4.8726e-04	1.6136e-04
5.6983e-04	3.6409e-04	6.6072e-06	-5.4159e-05
8.4973e-04	1.0620e-04	-2.6749e-04	-1.4810e-04
1.0295e-03	2.3859e-04	-2.0615e-04	-1.4829e-04
1.1586e-03	6.5746e-04	-6.1044e-05	-1.4276e-04
6.5746e-04	9.5240e-04	7.8960e-04	2.7507e-04
-6.1044e-05	7.8960e-04	1.6637e-03	8.5885e-04
-1.4276e-04	2.7507e-04	8.5885e-04	4.8872e-04

Iteration 12/100 μ :

8.2953e-04

Iteration 12/100 d:

-0.7374374
-1.7756800
-2.0466636
-1.8758557
-1.7105374
-0.8755010
0.0029283
-0.2114224
0.2790336
1.0232618
0.5039211
-1.2217218
-1.9705659
-1.5972194
-1.8721972
-1.3967752
-0.6904266
-0.3828332
-0.2439528
-0.0212247
0.7544169
0.5965070

$\mu = 0.000830 / 2 \rightarrow 0.000415$

Iteration 12/100 w(t):

-1.2772 7.4869
-3.6659 4.2938
-3.1409 6.4798
-1.8238 8.0964
-3.2385 9.3445
-3.4632 10.3612
-1.2943 11.4670
1.5508 14.3549

4.8798 14.8657
6.7007 14.7153
9.3349 19.2611

Iteration 12/100 error:
0.019154

Iteration 12/100 gradient:

6.3811e-04
1.4811e-03
1.6948e-03
1.5623e-03
1.4241e-03
7.2544e-04
8.7146e-06
2.0311e-04
-2.2675e-04
-8.4732e-04
-4.1446e-04
1.0161e-03
1.6353e-03
1.3159e-03
1.5571e-03
1.1607e-03
5.7278e-04
3.1897e-04
2.1232e-04
3.1836e-05
-6.2962e-04
-4.9557e-04

Iteration 12/100 gradient norm:
0.0046668

Iteration 13/100 Hessian matrix:
Columns 1 through 6:

3.4130e-04	6.6601e-04	4.4632e-04	5.3045e-05	-2.3262e-04	-2.8888e-04
6.6601e-04	1.4319e-03	1.0519e-03	1.6540e-04	-4.1113e-04	-6.7151e-04
4.4632e-04	1.0519e-03	1.0388e-03	4.8469e-04	-2.1085e-04	-7.6358e-04
5.3045e-05	1.6540e-04	4.8469e-04	6.5949e-04	1.4062e-04	-4.7800e-04
-2.3262e-04	-4.1113e-04	-2.1085e-04	1.4062e-04	3.9565e-04	3.8026e-04
-2.8888e-04	-6.7151e-04	-7.6358e-04	-4.7800e-04	3.8026e-04	1.3040e-03
-3.3063e-04	-8.0066e-04	-9.0632e-04	-5.1372e-04	4.2447e-04	1.4519e-03
-4.8741e-04	-9.5278e-04	-6.7141e-04	-4.1775e-05	5.6881e-04	8.4905e-04
-1.7912e-04	-2.8914e-04	8.1947e-05	4.6691e-04	3.6326e-04	1.0614e-04
3.3130e-04	8.1279e-04	8.5536e-04	4.8767e-04	6.8598e-06	-2.6758e-04
2.2933e-04	5.6904e-04	5.0770e-04	1.6136e-04	-5.4082e-05	-1.4877e-04
-8.4397e-05	-2.1374e-04	-3.4216e-04	-3.4661e-04	5.2053e-05	5.0702e-04

-2.1392e-04	-5.4726e-04	-8.4197e-04	-7.2371e-04	1.9419e-04	1.1217e-03
-3.4228e-04	-8.4218e-04	-8.6709e-04	-3.8487e-04	3.2599e-04	9.4860e-04
-3.4676e-04	-7.2350e-04	-3.8514e-04	1.8548e-04	3.6080e-04	3.1072e-04
5.1222e-05	1.9394e-04	3.2587e-04	3.6049e-04	1.6496e-04	-1.7975e-04
5.0723e-04	1.1217e-03	9.4863e-04	3.1067e-04	-1.7924e-04	-3.2372e-04
5.0366e-04	1.1856e-03	1.0764e-03	3.8655e-04	-1.5135e-04	-3.4638e-04
1.5407e-04	4.9273e-04	7.3883e-04	6.7721e-04	1.7775e-04	-4.4477e-04
-2.8535e-04	-4.9069e-04	-6.3578e-05	4.3468e-04	4.7597e-04	3.0164e-04
-4.5102e-04	-9.3677e-04	-8.0263e-04	-2.7178e-04	5.6337e-04	1.3228e-03
-1.9334e-04	-4.2570e-04	-4.7116e-04	-2.7173e-04	2.4915e-04	7.5538e-04

Columns 7 through 12:

-3.3063e-04	-4.8741e-04	-1.7912e-04	3.3130e-04	2.2933e-04	-8.4397e-05
-8.0066e-04	-9.5278e-04	-2.8914e-04	8.1279e-04	5.6904e-04	-2.1374e-04
-9.0632e-04	-6.7141e-04	8.1947e-05	8.5536e-04	5.0770e-04	-3.4216e-04
-5.1372e-04	-4.1775e-05	4.6691e-04	4.8767e-04	1.6136e-04	-3.4661e-04
4.2447e-04	5.6881e-04	3.6326e-04	6.8598e-06	-5.4082e-05	5.2053e-05
1.4519e-03	8.4905e-04	1.0614e-04	-2.6758e-04	-1.4877e-04	5.0702e-04
1.6831e-03	1.0286e-03	2.3817e-04	-2.0575e-04	-1.4817e-04	5.0398e-04
1.0286e-03	1.1576e-03	6.5598e-04	-6.1826e-05	-1.4338e-04	1.5424e-04
2.3817e-04	6.5598e-04	9.5103e-04	7.8942e-04	2.7401e-04	-2.8535e-04
-2.0575e-04	-6.1826e-05	7.8942e-04	1.6642e-03	8.5848e-04	-4.5059e-04
-1.4817e-04	-1.4338e-04	2.7401e-04	8.5848e-04	4.8878e-04	-1.9316e-04
5.0398e-04	1.5424e-04	-2.8535e-04	-4.5059e-04	-1.9316e-04	3.4176e-04
1.1857e-03	4.9256e-04	-4.9098e-04	-9.3645e-04	-4.2518e-04	6.6637e-04
1.0760e-03	7.3883e-04	-6.3629e-05	-8.0245e-04	-4.7088e-04	4.4624e-04
3.8661e-04	6.7725e-04	4.3432e-04	-2.7146e-04	-2.7138e-04	5.3159e-05
-1.5181e-04	1.7746e-04	4.7577e-04	5.6319e-04	2.4944e-04	-2.3254e-04
-3.4627e-04	-4.4443e-04	3.0188e-04	1.3234e-03	7.5613e-04	-2.8858e-04
-3.8253e-04	-4.3760e-04	4.0527e-04	1.5382e-03	8.7552e-04	-3.3047e-04
-4.3753e-04	3.6448e-05	7.4599e-04	1.1900e-03	5.7309e-04	-4.8724e-04
4.0535e-04	7.4607e-04	8.7329e-04	5.8689e-04	1.7324e-04	-1.7869e-04
1.5379e-03	1.1901e-03	5.8677e-04	1.0742e-04	-2.2005e-05	3.3163e-04
8.7538e-04	5.7282e-04	1.7305e-04	-2.2075e-05	-2.3778e-05	2.2930e-04

Columns 13 through 18:

-2.1392e-04	-3.4228e-04	-3.4676e-04	5.1222e-05	5.0723e-04	5.0366e-04
-5.4726e-04	-8.4218e-04	-7.2350e-04	1.9394e-04	1.1217e-03	1.1856e-03
-8.4197e-04	-8.6709e-04	-3.8514e-04	3.2587e-04	9.4863e-04	1.0764e-03
-7.2371e-04	-3.8487e-04	1.8548e-04	3.6049e-04	3.1067e-04	3.8655e-04
1.9419e-04	3.2599e-04	3.6080e-04	1.6496e-04	-1.7924e-04	-1.5135e-04
1.1217e-03	9.4860e-04	3.1072e-04	-1.7975e-04	-3.2372e-04	-3.4638e-04
1.1857e-03	1.0760e-03	3.8661e-04	-1.5181e-04	-3.4627e-04	-3.8253e-04
4.9256e-04	7.3883e-04	6.7725e-04	1.7746e-04	-4.4443e-04	-4.3760e-04
-4.9098e-04	-6.3629e-05	4.3432e-04	4.7577e-04	3.0188e-04	4.0527e-04
-9.3645e-04	-8.0245e-04	-2.7146e-04	5.6319e-04	1.3234e-03	1.5382e-03
-4.2518e-04	-4.7088e-04	-2.7138e-04	2.4944e-04	7.5613e-04	8.7552e-04

6.6637e-04	4.4624e-04	5.3159e-05	-2.3254e-04	-2.8858e-04	-3.3047e-04
1.4318e-03	1.0521e-03	1.6533e-04	-4.1157e-04	-6.7122e-04	-8.0053e-04
1.0521e-03	1.0387e-03	4.8475e-04	-2.1102e-04	-7.6334e-04	-9.0609e-04
1.6533e-04	4.8475e-04	6.5960e-04	1.4043e-04	-4.7753e-04	-5.1332e-04
-4.1157e-04	-2.1102e-04	1.4043e-04	3.9534e-04	3.8015e-04	4.2410e-04
-6.7122e-04	-7.6334e-04	-4.7753e-04	3.8015e-04	1.3043e-03	1.4522e-03
-8.0053e-04	-9.0609e-04	-5.1332e-04	4.2410e-04	1.4522e-03	1.6833e-03
-9.5246e-04	-6.7134e-04	-4.1521e-05	5.6850e-04	8.4937e-04	1.0289e-03
-2.8904e-04	8.2045e-05	4.6696e-04	3.6307e-04	1.0626e-04	2.3855e-04
8.1278e-04	8.5520e-04	4.8746e-04	6.4206e-06	-2.6769e-04	-2.0626e-04
5.6880e-04	5.0735e-04	1.6135e-04	-5.4391e-05	-1.4859e-04	-1.4826e-04

Columns 19 through 22:

1.5407e-04	-2.8535e-04	-4.5102e-04	-1.9334e-04
4.9273e-04	-4.9069e-04	-9.3677e-04	-4.2570e-04
7.3883e-04	-6.3578e-05	-8.0263e-04	-4.7116e-04
6.7721e-04	4.3468e-04	-2.7178e-04	-2.7173e-04
1.7775e-04	4.7597e-04	5.6337e-04	2.4915e-04
-4.4477e-04	3.0164e-04	1.3228e-03	7.5538e-04
-4.3753e-04	4.0535e-04	1.5379e-03	8.7538e-04
3.6448e-05	7.4607e-04	1.1901e-03	5.7282e-04
7.4599e-04	8.7329e-04	5.8677e-04	1.7305e-04
1.1900e-03	5.8689e-04	1.0742e-04	-2.2075e-05
5.7309e-04	1.7324e-04	-2.2005e-05	-2.3778e-05
-4.8724e-04	-1.7869e-04	3.3163e-04	2.2930e-04
-9.5246e-04	-2.8904e-04	8.1278e-04	5.6880e-04
-6.7134e-04	8.2045e-05	8.5520e-04	5.0735e-04
-4.1521e-05	4.6696e-04	4.8746e-04	1.6135e-04
5.6850e-04	3.6307e-04	6.4206e-06	-5.4391e-05
8.4937e-04	1.0626e-04	-2.6769e-04	-1.4859e-04
1.0289e-03	2.3855e-04	-2.0626e-04	-1.4826e-04
1.1580e-03	6.5614e-04	-6.1974e-05	-1.4349e-04
6.5614e-04	9.5130e-04	7.8929e-04	2.7403e-04
-6.1974e-05	7.8929e-04	1.6637e-03	8.5815e-04
-1.4349e-04	2.7403e-04	8.5815e-04	4.8828e-04

Iteration 13/100 μ :

4.1477e-04

Iteration 13/100 d:

-0.524658
-1.246761
-1.648364
-1.591723
-1.476422
-0.700041
0.326529
-0.010122

0.242654
0.903197
0.445376
-1.141167
-1.487126
-1.025962
-1.653146
-1.108491
-0.475137
-0.190281
0.037877
-0.117430
0.579774
0.592627

$\mu = 0.000415 / 2 \rightarrow 0.000207$

Iteration 13/100 w(t):

-1.80188	6.34572
-4.91270	2.80666
-4.78924	5.45385
-3.41553	6.44325
-4.71490	8.23600
-4.16320	9.88608
-0.96774	11.27673
1.54065	14.39277
5.12245	14.74830
7.60393	15.29506
9.78030	19.85376

Iteration 13/100 error:

0.0044911

Iteration 13/100 gradient:

2.1564e-04
5.1489e-04
6.8403e-04
6.5968e-04
6.1228e-04
2.8782e-04
-1.3723e-04
3.6607e-06
-1.0092e-04
-3.7527e-04
-1.8308e-04
4.7356e-04
6.1428e-04
4.2603e-04
6.8536e-04

4.5668e-04
1.9610e-04
7.8886e-05
-1.5131e-05
4.9840e-05
-2.4292e-04
-2.4738e-04

Iteration 13/100 gradient norm:
0.0018721

Iteration 14/100 Hessian matrix:
Columns 1 through 6:

3.4145e-04	6.6646e-04	4.4619e-04	5.3184e-05	-2.3237e-04	-2.8873e-04
6.6646e-04	1.4324e-03	1.0523e-03	1.6546e-04	-4.1093e-04	-6.7097e-04
4.4619e-04	1.0523e-03	1.0388e-03	4.8475e-04	-2.1075e-04	-7.6350e-04
5.3184e-05	1.6546e-04	4.8475e-04	6.5956e-04	1.4069e-04	-4.7770e-04
-2.3237e-04	-4.1093e-04	-2.1075e-04	1.4069e-04	3.9585e-04	3.8037e-04
-2.8873e-04	-6.7097e-04	-7.6350e-04	-4.7770e-04	3.8037e-04	1.3046e-03
-3.3039e-04	-8.0023e-04	-9.0607e-04	-5.1338e-04	4.2445e-04	1.4521e-03
-4.8718e-04	-9.5252e-04	-6.7135e-04	-4.1650e-05	5.6867e-04	8.4955e-04
-1.7889e-04	-2.8887e-04	8.2047e-05	4.6688e-04	3.6305e-04	1.0630e-04
3.3140e-04	8.1321e-04	8.5547e-04	4.8759e-04	6.9329e-06	-2.6746e-04
2.2911e-04	5.6913e-04	5.0740e-04	1.6121e-04	-5.4187e-05	-1.4856e-04
-8.4343e-05	-2.1354e-04	-3.4224e-04	-3.4667e-04	5.1854e-05	5.0715e-04
-2.1359e-04	-5.4688e-04	-8.4192e-04	-7.2345e-04	1.9431e-04	1.1222e-03
-3.4228e-04	-8.4188e-04	-8.6707e-04	-3.8509e-04	3.2618e-04	9.4878e-04
-3.4679e-04	-7.2335e-04	-3.8511e-04	1.8533e-04	3.6085e-04	3.1067e-04
5.1863e-05	1.9436e-04	3.2620e-04	3.6075e-04	1.6515e-04	-1.7926e-04
5.0715e-04	1.1222e-03	9.4890e-04	3.1082e-04	-1.7928e-04	-3.2364e-04
5.0391e-04	1.1860e-03	1.0763e-03	3.8665e-04	-1.5129e-04	-3.4622e-04
1.5423e-04	4.9305e-04	7.3888e-04	6.7722e-04	1.7773e-04	-4.4451e-04
-2.8544e-04	-4.9069e-04	-6.3619e-05	4.3437e-04	4.7593e-04	3.0189e-04
-4.5065e-04	-9.3623e-04	-8.0236e-04	-2.7155e-04	5.6343e-04	1.3232e-03
-1.9330e-04	-4.2535e-04	-4.7088e-04	-2.7146e-04	2.4937e-04	7.5580e-04

Columns 7 through 12:

-3.3039e-04	-4.8718e-04	-1.7889e-04	3.3140e-04	2.2911e-04	-8.4343e-05
-8.0023e-04	-9.5252e-04	-2.8887e-04	8.1321e-04	5.6913e-04	-2.1354e-04
-9.0607e-04	-6.7135e-04	8.2047e-05	8.5547e-04	5.0740e-04	-3.4224e-04
-5.1338e-04	-4.1650e-05	4.6688e-04	4.8759e-04	1.6121e-04	-3.4667e-04
4.2445e-04	5.6867e-04	3.6305e-04	6.9329e-06	-5.4187e-05	5.1854e-05
1.4521e-03	8.4955e-04	1.0630e-04	-2.6746e-04	-1.4856e-04	5.0715e-04
1.6835e-03	1.0290e-03	2.3844e-04	-2.0574e-04	-1.4806e-04	5.0398e-04
1.0290e-03	1.1579e-03	6.5606e-04	-6.1584e-05	-1.4345e-04	1.5420e-04
2.3844e-04	6.5606e-04	9.5115e-04	7.8937e-04	2.7398e-04	-2.8540e-04
-2.0574e-04	-6.1584e-05	7.8937e-04	1.6644e-03	8.5856e-04	-4.5060e-04

-1.4806e-04	-1.4345e-04	2.7398e-04	8.5856e-04	4.8856e-04	-1.9325e-04
5.0398e-04	1.5420e-04	-2.8540e-04	-4.5060e-04	-1.9325e-04	3.4153e-04
1.1860e-03	4.9293e-04	-4.9069e-04	-9.3621e-04	-4.2539e-04	6.6648e-04
1.0763e-03	7.3888e-04	-6.3587e-05	-8.0244e-04	-4.7097e-04	4.4617e-04
3.8663e-04	6.7716e-04	4.3433e-04	-2.7150e-04	-2.7154e-04	5.3329e-05
-1.5133e-04	1.7769e-04	4.7593e-04	5.6340e-04	2.4939e-04	-2.3229e-04
-3.4607e-04	-4.4445e-04	3.0194e-04	1.3233e-03	7.5576e-04	-2.8859e-04
-3.8215e-04	-4.3727e-04	4.0539e-04	1.5384e-03	8.7550e-04	-3.3029e-04
-4.3729e-04	3.6537e-05	7.4606e-04	1.1903e-03	5.7296e-04	-4.8709e-04
4.0538e-04	7.4605e-04	8.7308e-04	5.8688e-04	1.7315e-04	-1.7885e-04
1.5384e-03	1.1903e-03	5.8684e-04	1.0775e-04	-2.2052e-05	3.3146e-04
8.7559e-04	5.7311e-04	1.7318e-04	-2.2022e-05	-2.3944e-05	2.2928e-04

Columns 13 through 18:

-2.1359e-04	-3.4228e-04	-3.4679e-04	5.1863e-05	5.0715e-04	5.0391e-04
-5.4688e-04	-8.4188e-04	-7.2335e-04	1.9436e-04	1.1222e-03	1.1860e-03
-8.4192e-04	-8.6707e-04	-3.8511e-04	3.2620e-04	9.4890e-04	1.0763e-03
-7.2345e-04	-3.8509e-04	1.8533e-04	3.6075e-04	3.1082e-04	3.8665e-04
1.9431e-04	3.2618e-04	3.6085e-04	1.6515e-04	-1.7928e-04	-1.5129e-04
1.1222e-03	9.4878e-04	3.1067e-04	-1.7926e-04	-3.2364e-04	-3.4622e-04
1.1860e-03	1.0763e-03	3.8663e-04	-1.5133e-04	-3.4607e-04	-3.8215e-04
4.9293e-04	7.3888e-04	6.7716e-04	1.7769e-04	-4.4445e-04	-4.3727e-04
-4.9069e-04	-6.3587e-05	4.3433e-04	4.7593e-04	3.0194e-04	4.0539e-04
-9.3621e-04	-8.0244e-04	-2.7150e-04	5.6340e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7097e-04	-2.7154e-04	2.4939e-04	7.5576e-04	8.7550e-04
6.6648e-04	4.4617e-04	5.3329e-05	-2.3229e-04	-2.8859e-04	-3.3029e-04
1.4324e-03	1.0522e-03	1.6540e-04	-4.1100e-04	-6.7088e-04	-8.0033e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1086e-04	-7.6355e-04	-9.0603e-04
1.6540e-04	4.8465e-04	6.5957e-04	1.4071e-04	-4.7776e-04	-5.1337e-04
-4.1100e-04	-2.1086e-04	1.4071e-04	3.9583e-04	3.8047e-04	4.2443e-04
-6.7088e-04	-7.6355e-04	-4.7776e-04	3.8047e-04	1.3047e-03	1.4522e-03
-8.0033e-04	-9.0603e-04	-5.1337e-04	4.2443e-04	1.4522e-03	1.6835e-03
-9.5254e-04	-6.7143e-04	-4.1644e-05	5.6864e-04	8.4959e-04	1.0290e-03
-2.8897e-04	8.2070e-05	4.6680e-04	3.6298e-04	1.0633e-04	2.3842e-04
8.1317e-04	8.5541e-04	4.8750e-04	6.9617e-06	-2.6742e-04	-2.0581e-04
5.6912e-04	5.0743e-04	1.6117e-04	-5.4168e-05	-1.4848e-04	-1.4805e-04

Columns 19 through 22:

1.5423e-04	-2.8544e-04	-4.5065e-04	-1.9330e-04
4.9305e-04	-4.9069e-04	-9.3623e-04	-4.2535e-04
7.3888e-04	-6.3619e-05	-8.0236e-04	-4.7088e-04
6.7722e-04	4.3437e-04	-2.7155e-04	-2.7146e-04
1.7773e-04	4.7593e-04	5.6343e-04	2.4937e-04
-4.4451e-04	3.0189e-04	1.3232e-03	7.5580e-04
-4.3729e-04	4.0538e-04	1.5384e-03	8.7559e-04
3.6537e-05	7.4605e-04	1.1903e-03	5.7311e-04
7.4606e-04	8.7308e-04	5.8684e-04	1.7318e-04

1.1903e-03	5.8688e-04	1.0775e-04	-2.2022e-05
5.7296e-04	1.7315e-04	-2.2052e-05	-2.3944e-05
-4.8709e-04	-1.7885e-04	3.3146e-04	2.2928e-04
-9.5254e-04	-2.8897e-04	8.1317e-04	5.6912e-04
-6.7143e-04	8.2070e-05	8.5541e-04	5.0743e-04
-4.1644e-05	4.6680e-04	4.8750e-04	1.6117e-04
5.6864e-04	3.6298e-04	6.9617e-06	-5.4168e-05
8.4959e-04	1.0633e-04	-2.6742e-04	-1.4848e-04
1.0290e-03	2.3842e-04	-2.0581e-04	-1.4805e-04
1.1579e-03	6.5606e-04	-6.1611e-05	-1.4341e-04
6.5606e-04	9.5113e-04	7.8938e-04	2.7403e-04
-6.1611e-05	7.8938e-04	1.6643e-03	8.5856e-04
-1.4341e-04	2.7403e-04	8.5856e-04	4.8865e-04

Iteration 14/100 μ :
2.0738e-04

Iteration 14/100 d:

-0.2429520
-0.4896345
-0.8047663
-0.8376294
-0.9913234
-0.5614204
0.5486446
0.2862488
0.1084286
0.3654182
0.1497106
-0.9020803
-0.7359617
-0.1617279
-1.0109466
-0.6795960
-0.3586440
-0.0061454
0.4322829
-0.1837481
0.0729975
0.3378226

$\mu = 0.000207 / 2 \rightarrow 0.000104$

Iteration 14/100 w(t):

-2.04483	5.44364
-5.40233	2.07069
-5.59400	5.29213
-4.25316	5.43230
-5.70623	7.55640

-4.72462	9.52744
-0.41910	11.27059
1.82690	14.82505
5.23088	14.56455
7.96935	15.36806
9.93001	20.19158

Iteration 14/100 error:
0.0014996

Iteration 14/100 gradient:

5.0293e-05
1.0199e-04
1.6745e-04
1.7369e-04
2.0616e-04
1.1642e-04
-1.1344e-04
-5.9250e-05
-2.2288e-05
-7.5656e-05
-3.1048e-05
1.8739e-04
1.5285e-04
3.3904e-05
2.0974e-04
1.4150e-04
7.4666e-05
1.6469e-06
-8.9313e-05
3.8169e-05
-1.5154e-05
-6.9890e-05

Iteration 14/100 gradient norm:
5.4270e-04

Iteration 15/100 Hessian matrix:
Columns 1 through 6:

3.4145e-04	6.6638e-04	4.4610e-04	5.3230e-05	-2.3245e-04	-2.8877e-04
6.6638e-04	1.4323e-03	1.0521e-03	1.6547e-04	-4.1109e-04	-6.7102e-04
4.4610e-04	1.0521e-03	1.0386e-03	4.8462e-04	-2.1099e-04	-7.6362e-04
5.3230e-05	1.6547e-04	4.8462e-04	6.5957e-04	1.4062e-04	-4.7770e-04
-2.3245e-04	-4.1109e-04	-2.1099e-04	1.4062e-04	3.9565e-04	3.8033e-04
-2.8877e-04	-6.7102e-04	-7.6362e-04	-4.7770e-04	3.8033e-04	1.3046e-03
-3.3044e-04	-8.0041e-04	-9.0619e-04	-5.1343e-04	4.2428e-04	1.4521e-03
-4.8723e-04	-9.5260e-04	-6.7146e-04	-4.1660e-05	5.6860e-04	8.4949e-04
-1.7889e-04	-2.8899e-04	8.1960e-05	4.6684e-04	3.6292e-04	1.0624e-04

3.3140e-04	8.1308e-04	8.5536e-04	4.8755e-04	6.8767e-06	-2.6747e-04
2.2915e-04	5.6904e-04	5.0737e-04	1.6119e-04	-5.4268e-05	-1.4855e-04
-8.4354e-05	-2.1362e-04	-3.4239e-04	-3.4666e-04	5.1745e-05	5.0713e-04
-2.1365e-04	-5.4696e-04	-8.4203e-04	-7.2340e-04	1.9419e-04	1.1221e-03
-3.4236e-04	-8.4195e-04	-8.6729e-04	-3.8510e-04	3.2604e-04	9.4880e-04
-3.4668e-04	-7.2339e-04	-3.8512e-04	1.8543e-04	3.6074e-04	3.1078e-04
5.1798e-05	1.9424e-04	3.2604e-04	3.6077e-04	1.6494e-04	-1.7932e-04
5.0711e-04	1.1221e-03	9.4875e-04	3.1081e-04	-1.7939e-04	-3.2361e-04
5.0392e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5146e-04	-3.4622e-04
1.5415e-04	4.9285e-04	7.3877e-04	6.7717e-04	1.7761e-04	-4.4451e-04
-2.8546e-04	-4.9081e-04	-6.3701e-05	4.3434e-04	4.7585e-04	3.0187e-04
-4.5062e-04	-9.3627e-04	-8.0245e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2540e-04	-4.7100e-04	-2.7149e-04	2.4934e-04	7.5576e-04

Columns 7 through 12:

-3.3044e-04	-4.8723e-04	-1.7889e-04	3.3140e-04	2.2915e-04	-8.4354e-05
-8.0041e-04	-9.5260e-04	-2.8899e-04	8.1308e-04	5.6904e-04	-2.1362e-04
-9.0619e-04	-6.7146e-04	8.1960e-05	8.5536e-04	5.0737e-04	-3.4239e-04
-5.1343e-04	-4.1660e-05	4.6684e-04	4.8755e-04	1.6119e-04	-3.4666e-04
4.2428e-04	5.6860e-04	3.6292e-04	6.8767e-06	-5.4268e-05	5.1745e-05
1.4521e-03	8.4949e-04	1.0624e-04	-2.6747e-04	-1.4855e-04	5.0713e-04
1.6833e-03	1.0289e-03	2.3828e-04	-2.0575e-04	-1.4811e-04	5.0394e-04
1.0289e-03	1.1579e-03	6.5598e-04	-6.1570e-05	-1.4343e-04	1.5423e-04
2.3828e-04	6.5598e-04	9.5105e-04	7.8934e-04	2.7392e-04	-2.8543e-04
-2.0575e-04	-6.1570e-05	7.8934e-04	1.6643e-03	8.5852e-04	-4.5061e-04
-1.4811e-04	-1.4343e-04	2.7392e-04	8.5852e-04	4.8862e-04	-1.9325e-04
5.0394e-04	1.5423e-04	-2.8543e-04	-4.5061e-04	-1.9325e-04	3.4150e-04
1.1859e-03	4.9290e-04	-4.9077e-04	-9.3629e-04	-4.2541e-04	6.6644e-04
1.0763e-03	7.3885e-04	-6.3658e-05	-8.0240e-04	-4.7095e-04	4.4620e-04
3.8664e-04	6.7724e-04	4.3436e-04	-2.7151e-04	-2.7151e-04	5.3274e-05
-1.5140e-04	1.7766e-04	4.7591e-04	5.6335e-04	2.4940e-04	-2.3237e-04
-3.4621e-04	-4.4452e-04	3.0185e-04	1.3232e-03	7.5573e-04	-2.8866e-04
-3.8231e-04	-4.3738e-04	4.0532e-04	1.5383e-03	8.7551e-04	-3.3037e-04
-4.3740e-04	3.6446e-05	7.4599e-04	1.1902e-03	5.7304e-04	-4.8720e-04
4.0534e-04	7.4602e-04	8.7301e-04	5.8683e-04	1.7312e-04	-1.7888e-04
1.5383e-03	1.1903e-03	5.8684e-04	1.0768e-04	-2.2060e-05	3.3146e-04
8.7554e-04	5.7303e-04	1.7309e-04	-2.2067e-05	-2.4014e-05	2.2920e-04

Columns 13 through 18:

-2.1365e-04	-3.4236e-04	-3.4668e-04	5.1798e-05	5.0711e-04	5.0392e-04
-5.4696e-04	-8.4195e-04	-7.2339e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4203e-04	-8.6729e-04	-3.8512e-04	3.2604e-04	9.4875e-04	1.0762e-03
-7.2340e-04	-3.8510e-04	1.8543e-04	3.6077e-04	3.1081e-04	3.8662e-04
1.9419e-04	3.2604e-04	3.6074e-04	1.6494e-04	-1.7939e-04	-1.5146e-04
1.1221e-03	9.4880e-04	3.1078e-04	-1.7932e-04	-3.2361e-04	-3.4622e-04
1.1859e-03	1.0763e-03	3.8664e-04	-1.5140e-04	-3.4621e-04	-3.8231e-04
4.9290e-04	7.3885e-04	6.7724e-04	1.7766e-04	-4.4452e-04	-4.3738e-04

-4.9077e-04	-6.3658e-05	4.3436e-04	4.7591e-04	3.0185e-04	4.0532e-04
-9.3629e-04	-8.0240e-04	-2.7151e-04	5.6335e-04	1.3232e-03	1.5383e-03
-4.2541e-04	-4.7095e-04	-2.7151e-04	2.4940e-04	7.5573e-04	8.7551e-04
6.6644e-04	4.4620e-04	5.3274e-05	-2.3237e-04	-2.8866e-04	-3.3037e-04
1.4323e-03	1.0522e-03	1.6545e-04	-4.1102e-04	-6.7101e-04	-8.0040e-04
1.0522e-03	1.0387e-03	4.8469e-04	-2.1087e-04	-7.6356e-04	-9.0613e-04
1.6545e-04	4.8469e-04	6.5962e-04	1.4072e-04	-4.7773e-04	-5.1342e-04
-4.1102e-04	-2.1087e-04	1.4072e-04	3.9574e-04	3.8041e-04	4.2436e-04
-6.7101e-04	-7.6356e-04	-4.7773e-04	3.8041e-04	1.3046e-03	1.4521e-03
-8.0040e-04	-9.0613e-04	-5.1342e-04	4.2436e-04	1.4521e-03	1.6833e-03
-9.5263e-04	-6.7145e-04	-4.1661e-05	5.6865e-04	8.4946e-04	1.0289e-03
-2.8895e-04	8.2007e-05	4.6688e-04	3.6300e-04	1.0624e-04	2.3829e-04
8.1311e-04	8.5541e-04	4.8759e-04	6.9452e-06	-2.6747e-04	-2.0576e-04
5.6907e-04	5.0743e-04	1.6122e-04	-5.4216e-05	-1.4849e-04	-1.4810e-04

Columns 19 through 22:

1.5415e-04	-2.8546e-04	-4.5062e-04	-1.9323e-04
4.9285e-04	-4.9081e-04	-9.3627e-04	-4.2540e-04
7.3877e-04	-6.3701e-05	-8.0245e-04	-4.7100e-04
6.7717e-04	4.3434e-04	-2.7147e-04	-2.7149e-04
1.7761e-04	4.7585e-04	5.6337e-04	2.4934e-04
-4.4451e-04	3.0187e-04	1.3233e-03	7.5576e-04
-4.3740e-04	4.0534e-04	1.5383e-03	8.7554e-04
3.6446e-05	7.4602e-04	1.1903e-03	5.7303e-04
7.4599e-04	8.7301e-04	5.8684e-04	1.7309e-04
1.1902e-03	5.8683e-04	1.0768e-04	-2.2067e-05
5.7304e-04	1.7312e-04	-2.2060e-05	-2.4014e-05
-4.8720e-04	-1.7888e-04	3.3146e-04	2.2920e-04
-9.5263e-04	-2.8895e-04	8.1311e-04	5.6907e-04
-6.7145e-04	8.2007e-05	8.5541e-04	5.0743e-04
-4.1661e-05	4.6688e-04	4.8759e-04	1.6122e-04
5.6865e-04	3.6300e-04	6.9452e-06	-5.4216e-05
8.4946e-04	1.0624e-04	-2.6747e-04	-1.4849e-04
1.0289e-03	2.3829e-04	-2.0576e-04	-1.4810e-04
1.1578e-03	6.5600e-04	-6.1595e-05	-1.4344e-04
6.5600e-04	9.5112e-04	7.8936e-04	2.7400e-04
-6.1595e-05	7.8936e-04	1.6643e-03	8.5858e-04
-1.4344e-04	2.7400e-04	8.5858e-04	4.8867e-04

Iteration 15/100 μ :

1.0369e-04

Iteration 15/100 d:

-0.200545
-0.037004
-0.051653
-0.280392
-0.756637

-0.512646
0.747812
0.562635
-0.026005
-0.119574
-0.102346
-0.691795
-0.215460
0.420122
-0.498554
-0.603256
-0.386300
0.326431
0.749337
-0.156085
-0.302448
0.050430

$\mu = 0.000104 / 2 \rightarrow 0.000052$

Iteration 15/100 w(t):

-2.24537	4.75184
-5.43934	1.85523
-5.64566	5.71225
-4.53355	4.93375
-6.46286	6.95314
-5.23727	9.14114
0.32871	11.59702
2.38954	15.57439
5.20487	14.40846
7.84977	15.06561
9.82767	20.24201

Iteration 15/100 error:

8.7132e-04

Iteration 15/100 gradient:

2.0718e-05
3.8713e-06
5.2671e-06
2.9107e-05
7.8342e-05
5.3094e-05
-7.7544e-05
-5.8341e-05
2.6891e-06
1.2301e-05
1.0494e-05
7.1683e-05

2.2365e-05
-4.3566e-05
5.1708e-05
6.2543e-05
4.0063e-05
-3.3866e-05
-7.7701e-05
1.6180e-05
3.1347e-05
-5.2564e-06

Iteration 15/100 gradient norm:

2.1011e-04

Iteration 16/100 Hessian matrix:

Columns 1 through 6:

3.4151e-04	6.6641e-04	4.4618e-04	5.3213e-05	-2.3240e-04	-2.8871e-04
6.6641e-04	1.4323e-03	1.0521e-03	1.6539e-04	-4.1109e-04	-6.7104e-04
4.4618e-04	1.0521e-03	1.0386e-03	4.8460e-04	-2.1094e-04	-7.6356e-04
5.3213e-05	1.6539e-04	4.8460e-04	6.5951e-04	1.4061e-04	-4.7776e-04
-2.3240e-04	-4.1109e-04	-2.1094e-04	1.4061e-04	3.9569e-04	3.8037e-04
-2.8871e-04	-6.7104e-04	-7.6356e-04	-4.7776e-04	3.8037e-04	1.3046e-03
-3.3043e-04	-8.0044e-04	-9.0619e-04	-5.1351e-04	4.2430e-04	1.4520e-03
-4.8725e-04	-9.5264e-04	-6.7144e-04	-4.1723e-05	5.6858e-04	8.4947e-04
-1.7887e-04	-2.8900e-04	8.1994e-05	4.6681e-04	3.6295e-04	1.0624e-04
3.3144e-04	8.1306e-04	8.5538e-04	4.8750e-04	6.8905e-06	-2.6747e-04
2.2914e-04	5.6900e-04	5.0734e-04	1.6114e-04	-5.4233e-05	-1.4853e-04
-8.4284e-05	-2.1367e-04	-3.4235e-04	-3.4671e-04	5.1767e-05	5.0715e-04
-2.1366e-04	-5.4702e-04	-8.4204e-04	-7.2350e-04	1.9418e-04	1.1221e-03
-3.4234e-04	-8.4203e-04	-8.6726e-04	-3.8516e-04	3.2604e-04	9.4879e-04
-3.4669e-04	-7.2345e-04	-3.8516e-04	1.8532e-04	3.6073e-04	3.1075e-04
5.1763e-05	1.9419e-04	3.2605e-04	3.6072e-04	1.6497e-04	-1.7932e-04
5.0708e-04	1.1221e-03	9.4874e-04	3.1072e-04	-1.7937e-04	-3.2366e-04
5.0392e-04	1.1859e-03	1.0762e-03	3.8658e-04	-1.5145e-04	-3.4621e-04
1.5418e-04	4.9283e-04	7.3878e-04	6.7714e-04	1.7761e-04	-4.4454e-04
-2.8550e-04	-4.9086e-04	-6.3720e-05	4.3427e-04	4.7584e-04	3.0183e-04
-4.5063e-04	-9.3632e-04	-8.0244e-04	-2.7153e-04	5.6334e-04	1.3232e-03
-1.9329e-04	-4.2543e-04	-4.7094e-04	-2.7156e-04	2.4935e-04	7.5572e-04

Columns 7 through 12:

-3.3043e-04	-4.8725e-04	-1.7887e-04	3.3144e-04	2.2914e-04	-8.4284e-05
-8.0044e-04	-9.5264e-04	-2.8900e-04	8.1306e-04	5.6900e-04	-2.1367e-04
-9.0619e-04	-6.7144e-04	8.1994e-05	8.5538e-04	5.0734e-04	-3.4235e-04
-5.1351e-04	-4.1723e-05	4.6681e-04	4.8750e-04	1.6114e-04	-3.4671e-04
4.2430e-04	5.6858e-04	3.6295e-04	6.8905e-06	-5.4233e-05	5.1767e-05
1.4520e-03	8.4947e-04	1.0624e-04	-2.6747e-04	-1.4853e-04	5.0715e-04
1.6833e-03	1.0289e-03	2.3824e-04	-2.0581e-04	-1.4817e-04	5.0389e-04

1.0289e-03	1.1578e-03	6.5598e-04	-6.1609e-05	-1.4349e-04	1.5419e-04
2.3824e-04	6.5598e-04	9.5106e-04	7.8931e-04	2.7391e-04	-2.8544e-04
-2.0581e-04	-6.1609e-05	7.8931e-04	1.6643e-03	8.5852e-04	-4.5063e-04
-1.4817e-04	-1.4349e-04	2.7391e-04	8.5852e-04	4.8858e-04	-1.9328e-04
5.0389e-04	1.5419e-04	-2.8544e-04	-4.5063e-04	-1.9328e-04	3.4150e-04
1.1858e-03	4.9286e-04	-4.9083e-04	-9.3631e-04	-4.2546e-04	6.6639e-04
1.0762e-03	7.3878e-04	-6.3682e-05	-8.0245e-04	-4.7098e-04	4.4617e-04
3.8657e-04	6.7717e-04	4.3430e-04	-2.7153e-04	-2.7156e-04	5.3217e-05
-1.5147e-04	1.7763e-04	4.7586e-04	5.6335e-04	2.4932e-04	-2.3239e-04
-3.4626e-04	-4.4455e-04	3.0181e-04	1.3232e-03	7.5571e-04	-2.8872e-04
-3.8238e-04	-4.3743e-04	4.0528e-04	1.5383e-03	8.7548e-04	-3.3041e-04
-4.3744e-04	3.6405e-05	7.4598e-04	1.1902e-03	5.7293e-04	-4.8722e-04
4.0525e-04	7.4598e-04	8.7300e-04	5.8681e-04	1.7308e-04	-1.7891e-04
1.5383e-03	1.1903e-03	5.8683e-04	1.0768e-04	-2.2083e-05	3.3146e-04
8.7545e-04	5.7296e-04	1.7309e-04	-2.2089e-05	-2.4060e-05	2.2914e-04

Columns 13 through 18:

-2.1366e-04	-3.4234e-04	-3.4669e-04	5.1763e-05	5.0708e-04	5.0392e-04
-5.4702e-04	-8.4203e-04	-7.2345e-04	1.9419e-04	1.1221e-03	1.1859e-03
-8.4204e-04	-8.6726e-04	-3.8516e-04	3.2605e-04	9.4874e-04	1.0762e-03
-7.2350e-04	-3.8516e-04	1.8532e-04	3.6072e-04	3.1072e-04	3.8658e-04
1.9418e-04	3.2604e-04	3.6073e-04	1.6497e-04	-1.7937e-04	-1.5145e-04
1.1221e-03	9.4879e-04	3.1075e-04	-1.7932e-04	-3.2366e-04	-3.4621e-04
1.1858e-03	1.0762e-03	3.8657e-04	-1.5147e-04	-3.4626e-04	-3.8238e-04
4.9286e-04	7.3878e-04	6.7717e-04	1.7763e-04	-4.4455e-04	-4.3743e-04
-4.9083e-04	-6.3682e-05	4.3430e-04	4.7586e-04	3.0181e-04	4.0528e-04
-9.3631e-04	-8.0245e-04	-2.7153e-04	5.6335e-04	1.3232e-03	1.5383e-03
-4.2546e-04	-4.7098e-04	-2.7156e-04	2.4932e-04	7.5571e-04	8.7548e-04
6.6639e-04	4.4617e-04	5.3217e-05	-2.3239e-04	-2.8872e-04	-3.3041e-04
1.4323e-03	1.0521e-03	1.6538e-04	-4.1108e-04	-6.7106e-04	-8.0042e-04
1.0521e-03	1.0387e-03	4.8462e-04	-2.1091e-04	-7.6358e-04	-9.0616e-04
1.6538e-04	4.8462e-04	6.5953e-04	1.4066e-04	-4.7775e-04	-5.1345e-04
-4.1108e-04	-2.1091e-04	1.4066e-04	3.9570e-04	3.8036e-04	4.2432e-04
-6.7106e-04	-7.6358e-04	-4.7775e-04	3.8036e-04	1.3046e-03	1.4520e-03
-8.0042e-04	-9.0616e-04	-5.1345e-04	4.2432e-04	1.4520e-03	1.6833e-03
-9.5266e-04	-6.7146e-04	-4.1762e-05	5.6857e-04	8.4942e-04	1.0289e-03
-2.8904e-04	8.1980e-05	4.6679e-04	3.6295e-04	1.0620e-04	2.3827e-04
8.1305e-04	8.5534e-04	4.8754e-04	6.8962e-06	-2.6751e-04	-2.0579e-04
5.6901e-04	5.0736e-04	1.6117e-04	-5.4263e-05	-1.4853e-04	-1.4810e-04

Columns 19 through 22:

1.5418e-04	-2.8550e-04	-4.5063e-04	-1.9329e-04
4.9283e-04	-4.9086e-04	-9.3632e-04	-4.2543e-04
7.3878e-04	-6.3720e-05	-8.0244e-04	-4.7094e-04
6.7714e-04	4.3427e-04	-2.7153e-04	-2.7156e-04
1.7761e-04	4.7584e-04	5.6334e-04	2.4935e-04
-4.4454e-04	3.0183e-04	1.3232e-03	7.5572e-04

-4.3744e-04	4.0525e-04	1.5383e-03	8.7545e-04
3.6405e-05	7.4598e-04	1.1903e-03	5.7296e-04
7.4598e-04	8.7300e-04	5.8683e-04	1.7309e-04
1.1902e-03	5.8681e-04	1.0768e-04	-2.2089e-05
5.7293e-04	1.7308e-04	-2.2083e-05	-2.4060e-05
-4.8722e-04	-1.7891e-04	3.3146e-04	2.2914e-04
-9.5266e-04	-2.8904e-04	8.1305e-04	5.6901e-04
-6.7146e-04	8.1980e-05	8.5534e-04	5.0736e-04
-4.1762e-05	4.6679e-04	4.8754e-04	1.6117e-04
5.6857e-04	3.6295e-04	6.8962e-06	-5.4263e-05
8.4942e-04	1.0620e-04	-2.6751e-04	-1.4853e-04
1.0289e-03	2.3827e-04	-2.0579e-04	-1.4810e-04
1.1578e-03	6.5593e-04	-6.1628e-05	-1.4352e-04
6.5593e-04	9.5102e-04	7.8932e-04	2.7391e-04
-6.1628e-05	7.8932e-04	1.6643e-03	8.5851e-04
-1.4352e-04	2.7391e-04	8.5851e-04	4.8861e-04

Iteration 16/100 μ :

5.1846e-05

Iteration 16/100 d:

-0.3542854
 0.1018938
 0.3538587
 -0.1264397
 -0.7980729
 -0.5780170
 0.9242892
 0.7654835
 -0.0778228
 -0.3650162
 -0.2491338
 -0.5812292
 0.0090266
 0.5857805
 -0.2608444
 -0.7811056
 -0.5189425
 0.7065891
 0.8806337
 -0.0796962
 -0.4540588
 -0.1923983

$\mu = 0.000052 / 2 \rightarrow 0.000026$

Iteration 16/100 w(t):

-2.5997 4.1706
 -5.3374 1.8643

-5.2918	6.2980
-4.6600	4.6729
-7.2609	6.1720
-5.8153	8.6222
1.2530	12.3036
3.1550	16.4550
5.1271	14.3288
7.4848	14.6115
9.5785	20.0496

Iteration 16/100 error:
4.7323e-04

Iteration 16/100 gradient:

1.8364e-05
-5.2666e-06
-1.8313e-05
6.5153e-06
4.1399e-05
3.0023e-05
-4.7998e-05
-3.9668e-05
4.0650e-06
1.8917e-05
1.2937e-05
3.0161e-05
-4.3526e-07
-3.0353e-05
1.3549e-05
4.0538e-05
2.6878e-05
-3.6607e-05
-4.5689e-05
4.1161e-06
2.3582e-05
9.9633e-06

Iteration 16/100 gradient norm:
1.2751e-04

Iteration 17/100 Hessian matrix:
Columns 1 through 6:

3.4150e-04	6.6643e-04	4.4620e-04	5.3227e-05	-2.3240e-04	-2.8871e-04
6.6643e-04	1.4324e-03	1.0522e-03	1.6545e-04	-4.1104e-04	-6.7101e-04
4.4620e-04	1.0522e-03	1.0387e-03	4.8467e-04	-2.1093e-04	-7.6357e-04
5.3227e-05	1.6545e-04	4.8467e-04	6.5956e-04	1.4063e-04	-4.7774e-04
-2.3240e-04	-4.1104e-04	-2.1093e-04	1.4063e-04	3.9569e-04	3.8038e-04
-2.8871e-04	-6.7101e-04	-7.6357e-04	-4.7774e-04	3.8038e-04	1.3046e-03

-3.3041e-04	-8.0036e-04	-9.0614e-04	-5.1345e-04	4.2431e-04	1.4520e-03
-4.8720e-04	-9.5253e-04	-6.7139e-04	-4.1701e-05	5.6861e-04	8.4950e-04
-1.7888e-04	-2.8894e-04	8.2026e-05	4.6684e-04	3.6297e-04	1.0623e-04
3.3146e-04	8.1315e-04	8.5540e-04	4.8757e-04	6.9327e-06	-2.6747e-04
2.2917e-04	5.6907e-04	5.0740e-04	1.6118e-04	-5.4233e-05	-1.4851e-04
-8.4290e-05	-2.1359e-04	-3.4231e-04	-3.4668e-04	5.1778e-05	5.0711e-04
-2.1365e-04	-5.4696e-04	-8.4200e-04	-7.2345e-04	1.9420e-04	1.1221e-03
-3.4235e-04	-8.4196e-04	-8.6721e-04	-3.8514e-04	3.2602e-04	9.4879e-04
-3.4666e-04	-7.2341e-04	-3.8508e-04	1.8537e-04	3.6076e-04	3.1077e-04
5.1778e-05	1.9425e-04	3.2606e-04	3.6073e-04	1.6498e-04	-1.7935e-04
5.0712e-04	1.1221e-03	9.4884e-04	3.1077e-04	-1.7935e-04	-3.2362e-04
5.0390e-04	1.1859e-03	1.0762e-03	3.8660e-04	-1.5147e-04	-3.4623e-04
1.5420e-04	4.9290e-04	7.3880e-04	6.7717e-04	1.7763e-04	-4.4454e-04
-2.8545e-04	-4.9079e-04	-6.3663e-05	4.3433e-04	4.7588e-04	3.0184e-04
-4.5063e-04	-9.3627e-04	-8.0241e-04	-2.7152e-04	5.6333e-04	1.3232e-03
-1.9326e-04	-4.2536e-04	-4.7093e-04	-2.7151e-04	2.4935e-04	7.5576e-04

Columns 7 through 12:

-3.3041e-04	-4.8720e-04	-1.7888e-04	3.3146e-04	2.2917e-04	-8.4290e-05
-8.0036e-04	-9.5253e-04	-2.8894e-04	8.1315e-04	5.6907e-04	-2.1359e-04
-9.0614e-04	-6.7139e-04	8.2026e-05	8.5540e-04	5.0740e-04	-3.4231e-04
-5.1345e-04	-4.1701e-05	4.6684e-04	4.8757e-04	1.6118e-04	-3.4668e-04
4.2431e-04	5.6861e-04	3.6297e-04	6.9327e-06	-5.4233e-05	5.1778e-05
1.4520e-03	8.4950e-04	1.0623e-04	-2.6747e-04	-1.4851e-04	5.0711e-04
1.6833e-03	1.0289e-03	2.3831e-04	-2.0575e-04	-1.4810e-04	5.0393e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1562e-05	-1.4342e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5108e-04	7.8935e-04	2.7396e-04	-2.8543e-04
-2.0575e-04	-6.1562e-05	7.8935e-04	1.6644e-03	8.5859e-04	-4.5059e-04
-1.4810e-04	-1.4342e-04	2.7396e-04	8.5859e-04	4.8865e-04	-1.9323e-04
5.0393e-04	1.5422e-04	-2.8543e-04	-4.5059e-04	-1.9323e-04	3.4150e-04
1.1859e-03	4.9291e-04	-4.9081e-04	-9.3628e-04	-4.2541e-04	6.6641e-04
1.0762e-03	7.3884e-04	-6.3676e-05	-8.0239e-04	-4.7096e-04	4.4617e-04
3.8662e-04	6.7720e-04	4.3433e-04	-2.7145e-04	-2.7148e-04	5.3261e-05
-1.5144e-04	1.7766e-04	4.7589e-04	5.6337e-04	2.4936e-04	-2.3238e-04
-3.4620e-04	-4.4449e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8233e-04	-4.3740e-04	4.0531e-04	1.5383e-03	8.7549e-04	-3.3038e-04
-4.3741e-04	3.6467e-05	7.4601e-04	1.1903e-03	5.7302e-04	-4.8720e-04
4.0532e-04	7.4603e-04	8.7303e-04	5.8689e-04	1.7315e-04	-1.7887e-04
1.5383e-03	1.1903e-03	5.8685e-04	1.0770e-04	-2.2051e-05	3.3144e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2016e-05	-2.3985e-05	2.2920e-04

Columns 13 through 18:

-2.1365e-04	-3.4235e-04	-3.4666e-04	5.1778e-05	5.0712e-04	5.0390e-04
-5.4696e-04	-8.4196e-04	-7.2341e-04	1.9425e-04	1.1221e-03	1.1859e-03
-8.4200e-04	-8.6721e-04	-3.8508e-04	3.2606e-04	9.4884e-04	1.0762e-03
-7.2345e-04	-3.8514e-04	1.8537e-04	3.6073e-04	3.1077e-04	3.8660e-04
1.9420e-04	3.2602e-04	3.6076e-04	1.6498e-04	-1.7935e-04	-1.5147e-04

1.1221e-03	9.4879e-04	3.1077e-04	-1.7935e-04	-3.2362e-04	-3.4623e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5144e-04	-3.4620e-04	-3.8233e-04
4.9291e-04	7.3884e-04	6.7720e-04	1.7766e-04	-4.4449e-04	-4.3740e-04
-4.9081e-04	-6.3676e-05	4.3433e-04	4.7589e-04	3.0185e-04	4.0531e-04
-9.3628e-04	-8.0239e-04	-2.7145e-04	5.6337e-04	1.3233e-03	1.5383e-03
-4.2541e-04	-4.7096e-04	-2.7148e-04	2.4936e-04	7.5575e-04	8.7549e-04
6.6641e-04	4.4617e-04	5.3261e-05	-2.3238e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0521e-03	1.6544e-04	-4.1107e-04	-6.7101e-04	-8.0039e-04
1.0521e-03	1.0386e-03	4.8466e-04	-2.1092e-04	-7.6355e-04	-9.0614e-04
1.6544e-04	4.8466e-04	6.5961e-04	1.4068e-04	-4.7768e-04	-5.1344e-04
-4.1107e-04	-2.1092e-04	1.4068e-04	3.9571e-04	3.8038e-04	4.2434e-04
-6.7101e-04	-7.6355e-04	-4.7768e-04	3.8038e-04	1.3046e-03	1.4520e-03
-8.0039e-04	-9.0614e-04	-5.1344e-04	4.2434e-04	1.4520e-03	1.6833e-03
-9.5263e-04	-6.7145e-04	-4.1692e-05	5.6860e-04	8.4948e-04	1.0289e-03
-2.8897e-04	8.2017e-05	4.6687e-04	3.6296e-04	1.0622e-04	2.3828e-04
8.1308e-04	8.5538e-04	4.8755e-04	6.9083e-06	-2.6748e-04	-2.0581e-04
5.6906e-04	5.0741e-04	1.6122e-04	-5.4199e-05	-1.4849e-04	-1.4809e-04

Columns 19 through 22:

1.5420e-04	-2.8545e-04	-4.5063e-04	-1.9326e-04
4.9290e-04	-4.9079e-04	-9.3627e-04	-4.2536e-04
7.3880e-04	-6.3663e-05	-8.0241e-04	-4.7093e-04
6.7717e-04	4.3433e-04	-2.7152e-04	-2.7151e-04
1.7763e-04	4.7588e-04	5.6333e-04	2.4935e-04
-4.4454e-04	3.0184e-04	1.3232e-03	7.5576e-04
-4.3741e-04	4.0532e-04	1.5383e-03	8.7551e-04
3.6467e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4601e-04	8.7303e-04	5.8685e-04	1.7313e-04
1.1903e-03	5.8689e-04	1.0770e-04	-2.2016e-05
5.7302e-04	1.7315e-04	-2.2051e-05	-2.3985e-05
-4.8720e-04	-1.7887e-04	3.3144e-04	2.2920e-04
-9.5263e-04	-2.8897e-04	8.1308e-04	5.6906e-04
-6.7145e-04	8.2017e-05	8.5538e-04	5.0741e-04
-4.1692e-05	4.6687e-04	4.8755e-04	1.6122e-04
5.6860e-04	3.6296e-04	6.9083e-06	-5.4199e-05
8.4948e-04	1.0622e-04	-2.6748e-04	-1.4849e-04
1.0289e-03	2.3828e-04	-2.0581e-04	-1.4809e-04
1.1578e-03	6.5599e-04	-6.1611e-05	-1.4345e-04
6.5599e-04	9.5109e-04	7.8934e-04	2.7397e-04
-6.1611e-05	7.8934e-04	1.6643e-03	8.5856e-04
-1.4345e-04	2.7397e-04	8.5856e-04	4.8865e-04

Iteration 17/100 μ :

2.5923e-05

Iteration 17/100 d:

-0.464184

0.200989

0.389378
-0.162337
-0.754767
-0.641902
0.985789
0.757839
-0.012070
-0.387660
-0.372295
-0.509890
0.148111
0.482408
-0.184558
-0.814508
-0.597116
0.883429
0.779236
0.057201
-0.456442
-0.409455

$\mu = 0.000026 / 2 \rightarrow 0.000013$

Iteration 17/100 w(t):

-3.0638	3.6607
-5.1365	2.0124
-4.9024	6.7804
-4.8223	4.4883
-8.0157	5.3575
-6.4572	8.0251
2.2388	13.1870
3.9129	17.2343
5.1150	14.3860
7.0971	14.1551
9.2062	19.6402

Iteration 17/100 error:

2.2669e-04

Iteration 17/100 gradient:

1.2012e-05
-5.2031e-06
-1.0078e-05
4.1603e-06
1.9619e-05
1.6620e-05
-2.5585e-05
-1.9692e-05
2.8242e-07

1.0066e-05
9.6347e-06
1.3184e-05
-3.8533e-06
-1.2498e-05
4.8406e-06
2.1135e-05
1.5453e-05
-2.2947e-05
-2.0189e-05
-1.4896e-06
1.1816e-05
1.0617e-05

Iteration 17/100 gradient norm:
6.6562e-05

Iteration 18/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6645e-04	4.4617e-04	5.3251e-05	-2.3236e-04	-2.8868e-04
6.6645e-04	1.4323e-03	1.0522e-03	1.6545e-04	-4.1104e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6356e-04
5.3251e-05	1.6545e-04	4.8465e-04	6.5958e-04	1.4067e-04	-4.7770e-04
-2.3236e-04	-4.1104e-04	-2.1090e-04	1.4067e-04	3.9573e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6356e-04	-4.7770e-04	3.8039e-04	1.3046e-03
-3.3039e-04	-8.0037e-04	-9.0613e-04	-5.1344e-04	4.2434e-04	1.4520e-03
-4.8717e-04	-9.5256e-04	-6.7141e-04	-4.1674e-05	5.6864e-04	8.4951e-04
-1.7887e-04	-2.8896e-04	8.2029e-05	4.6685e-04	3.6298e-04	1.0625e-04
3.3148e-04	8.1314e-04	8.5540e-04	4.8759e-04	6.9419e-06	-2.6745e-04
2.2920e-04	5.6907e-04	5.0738e-04	1.6120e-04	-5.4210e-05	-1.4851e-04
-8.4287e-05	-2.1361e-04	-3.4234e-04	-3.4666e-04	5.1784e-05	5.0712e-04
-2.1360e-04	-5.4696e-04	-8.4198e-04	-7.2342e-04	1.9426e-04	1.1221e-03
-3.4233e-04	-8.4196e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4879e-04
-3.4669e-04	-7.2342e-04	-3.8513e-04	1.8537e-04	3.6074e-04	3.1077e-04
5.1799e-05	1.9424e-04	3.2605e-04	3.6076e-04	1.6498e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1078e-04	-1.7932e-04	-3.2363e-04
5.0396e-04	1.1859e-03	1.0762e-03	3.8664e-04	-1.5141e-04	-3.4620e-04
1.5421e-04	4.9290e-04	7.3880e-04	6.7717e-04	1.7766e-04	-4.4452e-04
-2.8542e-04	-4.9077e-04	-6.3645e-05	4.3435e-04	4.7591e-04	3.0187e-04
-4.5060e-04	-9.3625e-04	-8.0241e-04	-2.7147e-04	5.6338e-04	1.3233e-03
-1.9323e-04	-4.2538e-04	-4.7093e-04	-2.7148e-04	2.4938e-04	7.5577e-04

Columns 7 through 12:

-3.3039e-04	-4.8717e-04	-1.7887e-04	3.3148e-04	2.2920e-04	-8.4287e-05
-8.0037e-04	-9.5256e-04	-2.8896e-04	8.1314e-04	5.6907e-04	-2.1361e-04
-9.0613e-04	-6.7141e-04	8.2029e-05	8.5540e-04	5.0738e-04	-3.4234e-04
-5.1344e-04	-4.1674e-05	4.6685e-04	4.8759e-04	1.6120e-04	-3.4666e-04

4.2434e-04	5.6864e-04	3.6298e-04	6.9419e-06	-5.4210e-05	5.1784e-05
1.4520e-03	8.4951e-04	1.0625e-04	-2.6745e-04	-1.4851e-04	5.0712e-04
1.6834e-03	1.0289e-03	2.3829e-04	-2.0575e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1559e-05	-1.4344e-04	1.5422e-04
2.3829e-04	6.5602e-04	9.5109e-04	7.8938e-04	2.7395e-04	-2.8542e-04
-2.0575e-04	-6.1559e-05	7.8938e-04	1.6644e-03	8.5858e-04	-4.5059e-04
-1.4810e-04	-1.4344e-04	2.7395e-04	8.5858e-04	4.8864e-04	-1.9325e-04
5.0395e-04	1.5422e-04	-2.8542e-04	-4.5059e-04	-1.9325e-04	3.4150e-04
1.1859e-03	4.9293e-04	-4.9078e-04	-9.3625e-04	-4.2538e-04	6.6643e-04
1.0762e-03	7.3881e-04	-6.3669e-05	-8.0241e-04	-4.7096e-04	4.4617e-04
3.8660e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7151e-04	5.3244e-05
-1.5142e-04	1.7767e-04	4.7591e-04	5.6338e-04	2.4935e-04	-2.3239e-04
-3.4620e-04	-4.4451e-04	3.0187e-04	1.3233e-03	7.5576e-04	-2.8869e-04
-3.8230e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6469e-05	7.4601e-04	1.1903e-03	5.7301e-04	-4.8721e-04
4.0533e-04	7.4606e-04	8.7306e-04	5.8691e-04	1.7314e-04	-1.7886e-04
1.5383e-03	1.1903e-03	5.8688e-04	1.0774e-04	-2.2046e-05	3.3149e-04
8.7553e-04	5.7304e-04	1.7314e-04	-2.2020e-05	-2.3989e-05	2.2921e-04

Columns 13 through 18:

-2.1360e-04	-3.4233e-04	-3.4669e-04	5.1799e-05	5.0714e-04	5.0396e-04
-5.4696e-04	-8.4196e-04	-7.2342e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4198e-04	-8.6723e-04	-3.8513e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2342e-04	-3.8511e-04	1.8537e-04	3.6076e-04	3.1078e-04	3.8664e-04
1.9426e-04	3.2605e-04	3.6074e-04	1.6498e-04	-1.7932e-04	-1.5141e-04
1.1221e-03	9.4879e-04	3.1077e-04	-1.7934e-04	-3.2363e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8660e-04	-1.5142e-04	-3.4620e-04	-3.8230e-04
4.9293e-04	7.3881e-04	6.7719e-04	1.7767e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3669e-05	4.3434e-04	4.7591e-04	3.0187e-04	4.0533e-04
-9.3625e-04	-8.0241e-04	-2.7147e-04	5.6338e-04	1.3233e-03	1.5384e-03
-4.2538e-04	-4.7096e-04	-2.7151e-04	2.4935e-04	7.5576e-04	8.7551e-04
6.6643e-04	4.4617e-04	5.3244e-05	-2.3239e-04	-2.8869e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6542e-04	-4.1104e-04	-6.7100e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6355e-04	-9.0614e-04
1.6542e-04	4.8465e-04	6.5955e-04	1.4066e-04	-4.7772e-04	-5.1344e-04
-4.1104e-04	-2.1091e-04	1.4066e-04	3.9572e-04	3.8038e-04	4.2436e-04
-6.7100e-04	-7.6355e-04	-4.7772e-04	3.8038e-04	1.3046e-03	1.4521e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2436e-04	1.4521e-03	1.6834e-03
-9.5260e-04	-6.7143e-04	-4.1700e-05	5.6861e-04	8.4949e-04	1.0289e-03
-2.8894e-04	8.2031e-05	4.6684e-04	3.6299e-04	1.0624e-04	2.3832e-04
8.1312e-04	8.5540e-04	4.8755e-04	6.9377e-06	-2.6746e-04	-2.0575e-04
5.6906e-04	5.0741e-04	1.6120e-04	-5.4209e-05	-1.4851e-04	-1.4808e-04

Columns 19 through 22:

1.5421e-04	-2.8542e-04	-4.5060e-04	-1.9323e-04
4.9290e-04	-4.9077e-04	-9.3625e-04	-4.2538e-04
7.3880e-04	-6.3645e-05	-8.0241e-04	-4.7093e-04

6.7717e-04	4.3435e-04	-2.7147e-04	-2.7148e-04
1.7766e-04	4.7591e-04	5.6338e-04	2.4938e-04
-4.4452e-04	3.0187e-04	1.3233e-03	7.5577e-04
-4.3738e-04	4.0533e-04	1.5383e-03	8.7553e-04
3.6469e-05	7.4606e-04	1.1903e-03	5.7304e-04
7.4601e-04	8.7306e-04	5.8688e-04	1.7314e-04
1.1903e-03	5.8691e-04	1.0774e-04	-2.2020e-05
5.7301e-04	1.7314e-04	-2.2046e-05	-2.3989e-05
-4.8721e-04	-1.7886e-04	3.3149e-04	2.2921e-04
-9.5260e-04	-2.8894e-04	8.1312e-04	5.6906e-04
-6.7143e-04	8.2031e-05	8.5540e-04	5.0741e-04
-4.1700e-05	4.6684e-04	4.8755e-04	1.6120e-04
5.6861e-04	3.6299e-04	6.9377e-06	-5.4209e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3832e-04	-2.0575e-04	-1.4808e-04
1.1578e-03	6.5602e-04	-6.1595e-05	-1.4344e-04
6.5602e-04	9.5111e-04	7.8939e-04	2.7399e-04
-6.1595e-05	7.8939e-04	1.6643e-03	8.5858e-04
-1.4344e-04	2.7399e-04	8.5858e-04	4.8867e-04

Iteration 18/100 μ :

1.2961e-05

Iteration 18/100 d:

-0.44991
0.34067
0.16280
-0.26375
-0.44933
-0.52408
0.82021
0.47038
0.18285
-0.27037
-0.51277
-0.42021
0.27884
0.23926
-0.22820
-0.57653
-0.45385
0.72592
0.42967
0.31872
-0.37646
-0.63318

$\mu = 0.000013 / 2 \rightarrow 0.000006$

Iteration 18/100 w(t):

-3.5138	3.2405
-4.7958	2.2912
-4.7396	7.0197
-5.0861	4.2602
-8.4650	4.7810
-6.9813	7.5712
3.0590	13.9130
4.3832	17.6639
5.2978	14.7047
6.8267	13.7786
8.6935	19.0070

Iteration 18/100 error:

1.3192e-04

Iteration 18/100 gradient:

5.8310e-06
-4.4197e-06
-2.1217e-06
3.4460e-06
5.8398e-06
6.7863e-06
-1.0664e-05
-6.0930e-06
-2.3472e-06
3.5308e-06
6.6467e-06
5.4278e-06
-3.5943e-06
-3.0965e-06
2.9527e-06
7.4571e-06
5.8683e-06
-9.3933e-06
-5.5680e-06
-4.1156e-06
4.9058e-06
8.2188e-06

Iteration 18/100 gradient norm:

2.7232e-05

Iteration 19/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6640e-04	4.4617e-04	5.3229e-05	-2.3239e-04	-2.8869e-04
6.6640e-04	1.4323e-03	1.0522e-03	1.6542e-04	-4.1107e-04	-6.7103e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1092e-04	-7.6357e-04

5.3229e-05	1.6542e-04	4.8465e-04	6.5955e-04	1.4065e-04	-4.7772e-04
-2.3239e-04	-4.1107e-04	-2.1092e-04	1.4065e-04	3.9569e-04	3.8037e-04
-2.8869e-04	-6.7103e-04	-7.6357e-04	-4.7772e-04	3.8037e-04	1.3046e-03
-3.3039e-04	-8.0039e-04	-9.0613e-04	-5.1345e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5259e-04	-6.7142e-04	-4.1694e-05	5.6860e-04	8.4949e-04
-1.7886e-04	-2.8898e-04	8.2021e-05	4.6684e-04	3.6296e-04	1.0624e-04
3.3148e-04	8.1310e-04	8.5539e-04	4.8755e-04	6.9207e-06	-2.6746e-04
2.2919e-04	5.6905e-04	5.0739e-04	1.6119e-04	-5.4229e-05	-1.4851e-04
-8.4262e-05	-2.1362e-04	-3.4232e-04	-3.4666e-04	5.1784e-05	5.0715e-04
-2.1362e-04	-5.4698e-04	-8.4198e-04	-7.2344e-04	1.9422e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8512e-04	3.2604e-04	9.4879e-04
-3.4668e-04	-7.2345e-04	-3.8512e-04	1.8536e-04	3.6074e-04	3.1077e-04
5.1780e-05	1.9422e-04	3.2606e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1076e-04	-1.7934e-04	-3.2363e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4621e-04
1.5422e-04	4.9290e-04	7.3880e-04	6.7719e-04	1.7764e-04	-4.4452e-04
-2.8543e-04	-4.9080e-04	-6.3668e-05	4.3434e-04	4.7589e-04	3.0184e-04
-4.5061e-04	-9.3627e-04	-8.0241e-04	-2.7148e-04	5.6335e-04	1.3233e-03
-1.9324e-04	-4.2540e-04	-4.7095e-04	-2.7150e-04	2.4935e-04	7.5575e-04

Columns 7 through 12:

-3.3039e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04	-8.4262e-05
-8.0039e-04	-9.5259e-04	-2.8898e-04	8.1310e-04	5.6905e-04	-2.1362e-04
-9.0613e-04	-6.7142e-04	8.2021e-05	8.5539e-04	5.0739e-04	-3.4232e-04
-5.1345e-04	-4.1694e-05	4.6684e-04	4.8755e-04	1.6119e-04	-3.4666e-04
4.2435e-04	5.6860e-04	3.6296e-04	6.9207e-06	-5.4229e-05	5.1784e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0715e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0397e-04
1.0289e-03	1.1579e-03	6.5601e-04	-6.1572e-05	-1.4345e-04	1.5423e-04
2.3831e-04	6.5601e-04	9.5110e-04	7.8937e-04	2.7395e-04	-2.8541e-04
-2.0576e-04	-6.1572e-05	7.8937e-04	1.6644e-03	8.5857e-04	-4.5057e-04
-1.4810e-04	-1.4345e-04	2.7395e-04	8.5857e-04	4.8864e-04	-1.9321e-04
5.0397e-04	1.5423e-04	-2.8541e-04	-4.5057e-04	-1.9321e-04	3.4154e-04
1.1859e-03	4.9291e-04	-4.9079e-04	-9.3625e-04	-4.2540e-04	6.6644e-04
1.0762e-03	7.3880e-04	-6.3683e-05	-8.0241e-04	-4.7096e-04	4.4618e-04
3.8660e-04	6.7717e-04	4.3434e-04	-2.7147e-04	-2.7151e-04	5.3244e-05
-1.5142e-04	1.7765e-04	4.7591e-04	5.6338e-04	2.4937e-04	-2.3235e-04
-3.4620e-04	-4.4452e-04	3.0184e-04	1.3233e-03	7.5575e-04	-2.8867e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3036e-04
-4.3739e-04	3.6461e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8717e-04
4.0532e-04	7.4602e-04	8.7303e-04	5.8688e-04	1.7312e-04	-1.7885e-04
1.5383e-03	1.1903e-03	5.8687e-04	1.0772e-04	-2.2059e-05	3.3148e-04
8.7551e-04	5.7301e-04	1.7313e-04	-2.2046e-05	-2.4000e-05	2.2920e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4668e-04	5.1780e-05	5.0714e-04	5.0395e-04
-5.4698e-04	-8.4199e-04	-7.2345e-04	1.9422e-04	1.1221e-03	1.1859e-03

-8.4198e-04	-8.6723e-04	-3.8512e-04	3.2606e-04	9.4880e-04	1.0762e-03
-7.2344e-04	-3.8512e-04	1.8536e-04	3.6075e-04	3.1076e-04	3.8662e-04
1.9422e-04	3.2604e-04	3.6074e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4879e-04	3.1077e-04	-1.7934e-04	-3.2363e-04	-3.4621e-04
1.1859e-03	1.0762e-03	3.8660e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3880e-04	6.7717e-04	1.7765e-04	-4.4452e-04	-4.3738e-04
-4.9079e-04	-6.3683e-05	4.3434e-04	4.7591e-04	3.0184e-04	4.0533e-04
-9.3625e-04	-8.0241e-04	-2.7147e-04	5.6338e-04	1.3233e-03	1.5384e-03
-4.2540e-04	-4.7096e-04	-2.7151e-04	2.4937e-04	7.5575e-04	8.7551e-04
6.6644e-04	4.4618e-04	5.3244e-05	-2.3235e-04	-2.8867e-04	-3.3036e-04
1.4323e-03	1.0522e-03	1.6542e-04	-4.1105e-04	-6.7101e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6542e-04	4.8465e-04	6.5956e-04	1.4066e-04	-4.7773e-04	-5.1345e-04
-4.1105e-04	-2.1091e-04	1.4066e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7101e-04	-7.6357e-04	-4.7773e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1345e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5259e-04	-6.7143e-04	-4.1699e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8897e-04	8.2014e-05	4.6683e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1312e-04	8.5538e-04	4.8754e-04	6.9184e-06	-2.6747e-04	-2.0575e-04
5.6907e-04	5.0738e-04	1.6119e-04	-5.4217e-05	-1.4851e-04	-1.4809e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5061e-04	-1.9324e-04
4.9290e-04	-4.9080e-04	-9.3627e-04	-4.2540e-04
7.3880e-04	-6.3668e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7148e-04	-2.7150e-04
1.7764e-04	4.7589e-04	5.6335e-04	2.4935e-04
-4.4452e-04	3.0184e-04	1.3233e-03	7.5575e-04
-4.3739e-04	4.0532e-04	1.5383e-03	8.7551e-04
3.6461e-05	7.4602e-04	1.1903e-03	5.7301e-04
7.4603e-04	8.7303e-04	5.8687e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2046e-05
5.7302e-04	1.7312e-04	-2.2059e-05	-2.4000e-05
-4.8717e-04	-1.7885e-04	3.3148e-04	2.2920e-04
-9.5259e-04	-2.8897e-04	8.1312e-04	5.6907e-04
-6.7143e-04	8.2014e-05	8.5538e-04	5.0738e-04
-4.1699e-05	4.6683e-04	4.8754e-04	1.6119e-04
5.6862e-04	3.6298e-04	6.9184e-06	-5.4217e-05
8.4949e-04	1.0624e-04	-2.6747e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0575e-04	-1.4809e-04
1.1579e-03	6.5601e-04	-6.1586e-05	-1.4344e-04
6.5601e-04	9.5108e-04	7.8936e-04	2.7395e-04
-6.1586e-05	7.8936e-04	1.6643e-03	8.5856e-04
-1.4344e-04	2.7395e-04	8.5856e-04	4.8865e-04

Iteration 19/100 μ :

6.4807e-06

Iteration 19/100 d:

-0.454213
0.465778
-0.063304
-0.490216
-0.072904
-0.186415
0.535873
0.116872
0.475436
-0.187705
-0.694978
-0.376522
0.359383
0.058771
-0.408219
-0.299549
-0.062959
0.372061
0.034610
0.727970
-0.384175
-0.925625

$\mu = 0.000006 / 2 \rightarrow 0.000003$

Iteration 19/100 w(t):

-3.9680 2.8640
-4.3300 2.6506
-4.8029 7.0785
-5.5763 3.8519
-8.5379 4.4815
-7.1677 7.5083
3.5949 14.2850
4.5001 17.6985
5.7733 15.4327
6.6390 13.3945
7.9985 18.0814

Iteration 19/100 error:

9.6892e-05

Iteration 19/100 gradient:

2.9473e-06
-3.0378e-06
4.0675e-07
3.1795e-06
4.5435e-07
1.2329e-06

-3.4681e-06
-7.7570e-07
-3.0868e-06
1.2320e-06
4.5115e-06
2.4597e-06
-2.3170e-06
-3.8080e-07
2.6428e-06
1.9523e-06
4.0739e-07
-2.4016e-06
-2.2092e-07
-4.7165e-06
2.4680e-06
6.0012e-06

Iteration 19/100 gradient norm:

1.2909e-05

Iteration 20/100 Hessian matrix:

Columns 1 through 6:

3.4150e-04	6.6642e-04	4.4617e-04	5.3231e-05	-2.3238e-04	-2.8869e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6543e-04	-4.1104e-04	-6.7101e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6356e-04
5.3231e-05	1.6543e-04	4.8465e-04	6.5956e-04	1.4066e-04	-4.7771e-04
-2.3238e-04	-4.1104e-04	-2.1090e-04	1.4066e-04	3.9571e-04	3.8039e-04
-2.8869e-04	-6.7101e-04	-7.6356e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3039e-04	-8.0037e-04	-9.0614e-04	-5.1345e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5257e-04	-6.7142e-04	-4.1687e-05	5.6862e-04	8.4949e-04
-1.7885e-04	-2.8895e-04	8.2026e-05	4.6685e-04	3.6299e-04	1.0625e-04
3.3148e-04	8.1312e-04	8.5539e-04	4.8757e-04	6.9335e-06	-2.6746e-04
2.2919e-04	5.6908e-04	5.0739e-04	1.6120e-04	-5.4208e-05	-1.4850e-04
-8.4274e-05	-2.1361e-04	-3.4232e-04	-3.4667e-04	5.1784e-05	5.0715e-04
-2.1361e-04	-5.4696e-04	-8.4198e-04	-7.2342e-04	1.9425e-04	1.1221e-03
-3.4233e-04	-8.4198e-04	-8.6723e-04	-3.8512e-04	3.2606e-04	9.4882e-04
-3.4668e-04	-7.2342e-04	-3.8512e-04	1.8536e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9425e-04	3.2605e-04	3.6076e-04	1.6500e-04	-1.7933e-04
5.0713e-04	1.1221e-03	9.4879e-04	3.1075e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5141e-04	-3.4619e-04
1.5421e-04	4.9292e-04	7.3882e-04	6.7720e-04	1.7766e-04	-4.4452e-04
-2.8543e-04	-4.9078e-04	-6.3665e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3625e-04	-8.0241e-04	-2.7148e-04	5.6336e-04	1.3233e-03
-1.9324e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4935e-04	7.5575e-04

Columns 7 through 12:

-3.3039e-04 -4.8719e-04 -1.7885e-04 3.3148e-04 2.2919e-04 -8.4274e-05

-8.0037e-04	-9.5257e-04	-2.8895e-04	8.1312e-04	5.6908e-04	-2.1361e-04
-9.0614e-04	-6.7142e-04	8.2026e-05	8.5539e-04	5.0739e-04	-3.4232e-04
-5.1345e-04	-4.1687e-05	4.6685e-04	4.8757e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6299e-04	6.9335e-06	-5.4208e-05	5.1784e-05
1.4520e-03	8.4949e-04	1.0625e-04	-2.6746e-04	-1.4850e-04	5.0715e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1565e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5110e-04	7.8937e-04	2.7396e-04	-2.8542e-04
-2.0576e-04	-6.1565e-05	7.8937e-04	1.6644e-03	8.5857e-04	-4.5059e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8542e-04	-4.5059e-04	-1.9323e-04	3.4153e-04
1.1859e-03	4.9291e-04	-4.9077e-04	-9.3625e-04	-4.2538e-04	6.6644e-04
1.0762e-03	7.3882e-04	-6.3661e-05	-8.0240e-04	-4.7094e-04	4.4618e-04
3.8662e-04	6.7718e-04	4.3435e-04	-2.7147e-04	-2.7149e-04	5.3243e-05
-1.5141e-04	1.7766e-04	4.7592e-04	5.6338e-04	2.4937e-04	-2.3236e-04
-3.4621e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0534e-04	1.5384e-03	8.7553e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8718e-04
4.0533e-04	7.4603e-04	8.7305e-04	5.8688e-04	1.7313e-04	-1.7885e-04
1.5383e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2059e-05	3.3147e-04
8.7550e-04	5.7302e-04	1.7314e-04	-2.2046e-05	-2.3999e-05	2.2919e-04

Columns 13 through 18:

-2.1361e-04	-3.4233e-04	-3.4668e-04	5.1787e-05	5.0713e-04	5.0395e-04
-5.4696e-04	-8.4198e-04	-7.2342e-04	1.9425e-04	1.1221e-03	1.1859e-03
-8.4198e-04	-8.6723e-04	-3.8512e-04	3.2605e-04	9.4879e-04	1.0762e-03
-7.2342e-04	-3.8512e-04	1.8536e-04	3.6076e-04	3.1075e-04	3.8662e-04
1.9425e-04	3.2606e-04	3.6075e-04	1.6500e-04	-1.7934e-04	-1.5141e-04
1.1221e-03	9.4882e-04	3.1077e-04	-1.7933e-04	-3.2362e-04	-3.4619e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5141e-04	-3.4621e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7718e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9077e-04	-6.3661e-05	4.3435e-04	4.7592e-04	3.0185e-04	4.0534e-04
-9.3625e-04	-8.0240e-04	-2.7147e-04	5.6338e-04	1.3233e-03	1.5384e-03
-4.2538e-04	-4.7094e-04	-2.7149e-04	2.4937e-04	7.5575e-04	8.7553e-04
6.6644e-04	4.4618e-04	5.3243e-05	-2.3236e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1103e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8466e-04	-2.1090e-04	-7.6356e-04	-9.0613e-04
1.6544e-04	4.8466e-04	6.5956e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1103e-04	-2.1090e-04	1.4067e-04	3.9574e-04	3.8038e-04	4.2435e-04
-6.7102e-04	-7.6356e-04	-4.7771e-04	3.8038e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0613e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1681e-05	5.6863e-04	8.4948e-04	1.0289e-03
-2.8895e-04	8.2025e-05	4.6685e-04	3.6298e-04	1.0623e-04	2.3831e-04
8.1312e-04	8.5539e-04	4.8755e-04	6.9284e-06	-2.6747e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6119e-04	-5.4213e-05	-1.4852e-04	-1.4809e-04

Columns 19 through 22:

1.5421e-04	-2.8543e-04	-4.5060e-04	-1.9324e-04
4.9292e-04	-4.9078e-04	-9.3625e-04	-4.2539e-04
7.3882e-04	-6.3665e-05	-8.0241e-04	-4.7095e-04
6.7720e-04	4.3434e-04	-2.7148e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6336e-04	2.4935e-04
-4.4452e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5383e-03	8.7550e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7305e-04	5.8688e-04	1.7314e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2046e-05
5.7302e-04	1.7313e-04	-2.2059e-05	-2.3999e-05
-4.8718e-04	-1.7885e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8895e-04	8.1312e-04	5.6906e-04
-6.7142e-04	8.2025e-05	8.5539e-04	5.0739e-04
-4.1681e-05	4.6685e-04	4.8755e-04	1.6119e-04
5.6863e-04	3.6298e-04	6.9284e-06	-5.4213e-05
8.4948e-04	1.0623e-04	-2.6747e-04	-1.4852e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4809e-04
1.1579e-03	6.5602e-04	-6.1583e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8937e-04	2.7395e-04
-6.1583e-05	7.8937e-04	1.6643e-03	8.5856e-04
-1.4344e-04	2.7395e-04	8.5856e-04	4.8863e-04

Iteration 20/100 μ :

3.2404e-06

Iteration 20/100 d:

-0.565403
0.613081
-0.187365
-0.850011
0.162329
0.201545
0.346092
-0.066083
0.846330
-0.244591
-0.973812
-0.427604
0.427403
0.025048
-0.717003
-0.220537
0.403895
0.076578
-0.210587
1.271270
-0.579003
-1.364294

$$\mu = 0.000003 / 2 \rightarrow 0.000002$$

Iteration 20/100 w(t):

-4.5334	2.4364
-3.7169	3.0780
-4.9903	7.1035
-6.4263	3.1349
-8.3756	4.2609
-6.9661	7.9122
3.9410	14.3616
4.4340	17.4879
6.6196	16.7039
6.3944	12.8155
7.0247	16.7171

Iteration 20/100 error:

6.6242e-05

Iteration 20/100 gradient:

1.7953e-06
-1.9799e-06
5.8383e-07
2.7362e-06
-5.6070e-07
-6.3802e-07
-1.1492e-06
2.0716e-07
-2.7415e-06
8.0352e-07
3.1354e-06
1.3675e-06
-1.3892e-06
-8.6675e-08
2.2827e-06
7.2275e-07
-1.3173e-06
-2.3930e-07
6.8071e-07
-4.1338e-06
1.8279e-06
4.3885e-06

Iteration 20/100 gradient norm:

9.3023e-06

Iteration 21/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3241e-05	-2.3237e-04	-2.8869e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1104e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3241e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7772e-04
-2.3237e-04	-4.1104e-04	-2.1091e-04	1.4067e-04	3.9573e-04	3.8039e-04
-2.8869e-04	-6.7102e-04	-7.6357e-04	-4.7772e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0038e-04	-9.0614e-04	-5.1345e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5259e-04	-6.7143e-04	-4.1688e-05	5.6863e-04	8.4948e-04
-1.7887e-04	-2.8897e-04	8.2014e-05	4.6685e-04	3.6298e-04	1.0623e-04
3.3147e-04	8.1310e-04	8.5538e-04	4.8755e-04	6.9265e-06	-2.6747e-04
2.2919e-04	5.6906e-04	5.0738e-04	1.6120e-04	-5.4216e-05	-1.4851e-04
-8.4281e-05	-2.1362e-04	-3.4233e-04	-3.4666e-04	5.1791e-05	5.0713e-04
-2.1363e-04	-5.4698e-04	-8.4199e-04	-7.2343e-04	1.9425e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6724e-04	-3.8511e-04	3.2605e-04	9.4879e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1781e-05	1.9424e-04	3.2605e-04	3.6074e-04	1.6500e-04	-1.7935e-04
5.0714e-04	1.1221e-03	9.4879e-04	3.1076e-04	-1.7934e-04	-3.2363e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5141e-04	-3.4620e-04
1.5421e-04	4.9290e-04	7.3880e-04	6.7718e-04	1.7765e-04	-4.4452e-04
-2.8544e-04	-4.9080e-04	-6.3675e-05	4.3434e-04	4.7590e-04	3.0184e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6338e-04	1.3233e-03
-1.9324e-04	-4.2540e-04	-4.7096e-04	-2.7150e-04	2.4936e-04	7.5574e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7887e-04	3.3147e-04	2.2919e-04	-8.4281e-05
-8.0038e-04	-9.5259e-04	-2.8897e-04	8.1310e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7143e-04	8.2014e-05	8.5538e-04	5.0738e-04	-3.4233e-04
-5.1345e-04	-4.1688e-05	4.6685e-04	4.8755e-04	1.6120e-04	-3.4666e-04
4.2435e-04	5.6863e-04	3.6298e-04	6.9265e-06	-5.4216e-05	5.1791e-05
1.4520e-03	8.4948e-04	1.0623e-04	-2.6747e-04	-1.4851e-04	5.0713e-04
1.6834e-03	1.0289e-03	2.3830e-04	-2.0575e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5601e-04	-6.1585e-05	-1.4345e-04	1.5421e-04
2.3830e-04	6.5601e-04	9.5109e-04	7.8936e-04	2.7395e-04	-2.8543e-04
-2.0575e-04	-6.1585e-05	7.8936e-04	1.6643e-03	8.5856e-04	-4.5060e-04
-1.4810e-04	-1.4345e-04	2.7395e-04	8.5856e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5421e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9290e-04	-4.9079e-04	-9.3627e-04	-4.2540e-04	6.6643e-04
1.0762e-03	7.3881e-04	-6.3676e-05	-8.0241e-04	-4.7096e-04	4.4618e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3241e-05
-1.5142e-04	1.7765e-04	4.7590e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4452e-04	3.0184e-04	1.3232e-03	7.5574e-04	-2.8869e-04
-3.8230e-04	-4.3739e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3037e-04
-4.3739e-04	3.6453e-05	7.4602e-04	1.1903e-03	5.7301e-04	-4.8719e-04
4.0532e-04	7.4602e-04	8.7303e-04	5.8687e-04	1.7312e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3148e-04
8.7551e-04	5.7301e-04	1.7312e-04	-2.2052e-05	-2.4006e-05	2.2919e-04

Columns 13 through 18:

-2.1363e-04	-3.4233e-04	-3.4667e-04	5.1781e-05	5.0714e-04	5.0395e-04
-5.4698e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6724e-04	-3.8511e-04	3.2605e-04	9.4879e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6074e-04	3.1076e-04	3.8662e-04
1.9425e-04	3.2605e-04	3.6075e-04	1.6500e-04	-1.7934e-04	-1.5141e-04
1.1221e-03	9.4879e-04	3.1077e-04	-1.7935e-04	-3.2363e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8230e-04
4.9290e-04	7.3881e-04	6.7719e-04	1.7765e-04	-4.4452e-04	-4.3739e-04
-4.9079e-04	-6.3676e-05	4.3434e-04	4.7590e-04	3.0184e-04	4.0533e-04
-9.3627e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3232e-03	1.5384e-03
-4.2540e-04	-4.7096e-04	-2.7150e-04	2.4936e-04	7.5574e-04	8.7551e-04
6.6643e-04	4.4618e-04	5.3241e-05	-2.3237e-04	-2.8869e-04	-3.3037e-04
1.4323e-03	1.0522e-03	1.6543e-04	-4.1105e-04	-6.7103e-04	-8.0038e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6358e-04	-9.0614e-04
1.6543e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8038e-04	4.2435e-04
-6.7103e-04	-7.6358e-04	-4.7771e-04	3.8038e-04	1.3046e-03	1.4520e-03
-8.0038e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5259e-04	-6.7143e-04	-4.1688e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8897e-04	8.2020e-05	4.6684e-04	3.6298e-04	1.0623e-04	2.3830e-04
8.1312e-04	8.5539e-04	4.8756e-04	6.9332e-06	-2.6747e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6119e-04	-5.4218e-05	-1.4852e-04	-1.4810e-04

Columns 19 through 22:

1.5421e-04	-2.8544e-04	-4.5060e-04	-1.9324e-04
4.9290e-04	-4.9080e-04	-9.3626e-04	-4.2540e-04
7.3880e-04	-6.3675e-05	-8.0241e-04	-4.7096e-04
6.7718e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7765e-04	4.7590e-04	5.6338e-04	2.4936e-04
-4.4452e-04	3.0184e-04	1.3233e-03	7.5574e-04
-4.3739e-04	4.0532e-04	1.5384e-03	8.7551e-04
3.6453e-05	7.4602e-04	1.1903e-03	5.7301e-04
7.4602e-04	8.7303e-04	5.8688e-04	1.7312e-04
1.1903e-03	5.8687e-04	1.0772e-04	-2.2052e-05
5.7301e-04	1.7312e-04	-2.2048e-05	-2.4006e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5259e-04	-2.8897e-04	8.1312e-04	5.6906e-04
-6.7143e-04	8.2020e-05	8.5539e-04	5.0739e-04
-4.1688e-05	4.6684e-04	4.8756e-04	1.6119e-04
5.6862e-04	3.6298e-04	6.9332e-06	-5.4218e-05
8.4949e-04	1.0623e-04	-2.6747e-04	-1.4852e-04
1.0289e-03	2.3830e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5600e-04	-6.1583e-05	-1.4345e-04
6.5600e-04	9.5108e-04	7.8936e-04	2.7395e-04
-6.1583e-05	7.8936e-04	1.6644e-03	8.5857e-04
-1.4345e-04	2.7395e-04	8.5857e-04	4.8864e-04

Iteration 21/100 μ :
1.6202e-06

Iteration 21/100 d:
-0.590261
0.794252
-0.315666
-1.212292
0.245769
0.449586
0.306725
-0.053417
1.214583
-0.400835
-1.254738
-0.405929
0.509511
-0.012938
-1.005580
-0.328858
0.766154
-0.094826
-0.271646
1.837621
-0.859576
-1.830292

$\mu = 0.000002 / 2 \rightarrow 0.000001$

Iteration 21/100 w(t):
-5.1236 2.0305
-2.9227 3.5875
-5.3060 7.0906
-7.6386 2.1293
-8.1298 3.9321
-6.5165 8.6783
4.2477 14.2668
4.3806 17.2163
7.8342 18.5415
5.9936 11.9559
5.7699 14.8868

Iteration 21/100 error:
3.5048e-05

Iteration 21/100 gradient:
9.6220e-07
-1.2753e-06
5.0843e-07

1.9766e-06
-3.7667e-07
-7.1663e-07
-4.8363e-07
9.7998e-08
-1.9725e-06
6.5801e-07
2.0369e-06
6.5996e-07
-8.2116e-07
3.0680e-08
1.6419e-06
5.4745e-07
-1.2362e-06
1.6634e-07
4.4095e-07
-2.9795e-06
1.4320e-06
2.9665e-06

Iteration 21/100 gradient norm:
6.4556e-06

Iteration 22/100 Hessian matrix:
Columns 1 through 6:

3.4151e-04	6.6642e-04	4.4618e-04	5.3247e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04
4.4618e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6356e-04
5.3247e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1090e-04	1.4067e-04	3.9573e-04	3.8039e-04
-2.8868e-04	-6.7101e-04	-7.6356e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0613e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7141e-04	-4.1686e-05	5.6863e-04	8.4950e-04
-1.7886e-04	-2.8897e-04	8.2022e-05	4.6684e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9378e-06	-2.6746e-04
2.2920e-04	5.6907e-04	5.0740e-04	1.6120e-04	-5.4204e-05	-1.4850e-04
-8.4277e-05	-2.1361e-04	-3.4232e-04	-3.4667e-04	5.1794e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4198e-04	-7.2343e-04	1.9425e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2606e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1076e-04
5.1784e-05	1.9424e-04	3.2605e-04	3.6074e-04	1.6499e-04	-1.7934e-04
5.0713e-04	1.1221e-03	9.4880e-04	3.1076e-04	-1.7933e-04	-3.2362e-04
5.0394e-04	1.1859e-03	1.0762e-03	3.8661e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9290e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9079e-04	-6.3667e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6338e-04	1.3233e-03
-1.9323e-04	-4.2540e-04	-4.7094e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2920e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8897e-04	8.1311e-04	5.6907e-04	-2.1361e-04
-9.0613e-04	-6.7141e-04	8.2022e-05	8.5539e-04	5.0740e-04	-3.4232e-04
-5.1344e-04	-4.1686e-05	4.6684e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6863e-04	3.6298e-04	6.9378e-06	-5.4204e-05	5.1794e-05
1.4520e-03	8.4950e-04	1.0624e-04	-2.6746e-04	-1.4850e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3830e-04	-2.0575e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1571e-05	-1.4344e-04	1.5422e-04
2.3830e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0575e-04	-6.1571e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5059e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5059e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9079e-04	-9.3626e-04	-4.2539e-04	6.6643e-04
1.0762e-03	7.3882e-04	-6.3673e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7149e-04	5.3247e-05
-1.5142e-04	1.7766e-04	4.7590e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4619e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0532e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6466e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8718e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7885e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2038e-05	3.3148e-04
8.7552e-04	5.7302e-04	1.7313e-04	-2.2042e-05	-2.3993e-05	2.2920e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1784e-05	5.0713e-04	5.0394e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4198e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6074e-04	3.1076e-04	3.8661e-04
1.9425e-04	3.2606e-04	3.6075e-04	1.6499e-04	-1.7933e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1076e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4619e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9079e-04	-6.3673e-05	4.3434e-04	4.7590e-04	3.0185e-04	4.0532e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7149e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6643e-04	4.4617e-04	5.3247e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1345e-04
-4.1105e-04	-2.1090e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1345e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1683e-05	5.6863e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2023e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1312e-04	8.5539e-04	4.8756e-04	6.9326e-06	-2.6746e-04	-2.0576e-04
5.6907e-04	5.0740e-04	1.6120e-04	-5.4212e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9290e-04	-4.9079e-04	-9.3626e-04	-4.2540e-04
7.3882e-04	-6.3667e-05	-8.0241e-04	-4.7094e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6338e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7552e-04
3.6466e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2042e-05
5.7302e-04	1.7313e-04	-2.2038e-05	-2.3993e-05
-4.8718e-04	-1.7885e-04	3.3148e-04	2.2920e-04
-9.5258e-04	-2.8896e-04	8.1312e-04	5.6907e-04
-6.7142e-04	8.2023e-05	8.5539e-04	5.0740e-04
-4.1683e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6863e-04	3.6298e-04	6.9326e-06	-5.4212e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1574e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04
-6.1574e-05	7.8937e-04	1.6644e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04

Iteration 22/100 μ :

8.1009e-07

Iteration 22/100 d:

-0.296248
0.870078
-0.512393
-1.334295
0.162730
0.533702
0.274153
0.117810
1.433875
-0.553606
-1.297182
-0.077171
0.552910
-0.172089
-1.086999
-0.513068
0.903907
-0.199495
-0.121592

2.143049
-1.099967
-1.949841

$\mu = 0.000001 / 2 \rightarrow 0.000000$

Iteration 22/100 w(t):

-5.4199 1.9533
-2.0526 4.1404
-5.8183 6.9185
-8.9729 1.0424
-7.9671 3.4190
-5.9828 9.5822
4.5219 14.0673
4.4984 17.0947
9.2681 20.6846
5.4400 10.8559
4.4728 12.9369

Iteration 22/100 error:

1.2940e-05

Iteration 22/100 gradient:

2.5229e-07
-6.9868e-07
4.2880e-07
1.0862e-06
-1.1670e-07
-4.2480e-07
-2.0986e-07
-8.8451e-08
-1.1448e-06
4.6980e-07
1.0683e-06
7.2361e-08
-4.3980e-07
1.5371e-07
8.8827e-07
4.1866e-07
-7.2256e-07
1.6512e-07
1.1454e-07
-1.7272e-06
9.1448e-07
1.6063e-06

Iteration 22/100 gradient norm:

3.6032e-06

Iteration 23/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6643e-04	4.4617e-04	5.3248e-05	-2.3238e-04	-2.8868e-04
6.6643e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6357e-04
5.3248e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7772e-04
-2.3238e-04	-4.1105e-04	-2.1090e-04	1.4067e-04	3.9572e-04	3.8038e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7772e-04	3.8038e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1345e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2023e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3148e-04	8.1312e-04	8.5539e-04	4.8756e-04	6.9290e-06	-2.6747e-04
2.2920e-04	5.6907e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4275e-05	-2.1361e-04	-3.4233e-04	-3.4667e-04	5.1782e-05	5.0713e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4879e-04
-3.4667e-04	-7.2342e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1076e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7765e-04	-4.4451e-04
-2.8542e-04	-4.9078e-04	-6.3667e-05	4.3434e-04	4.7590e-04	3.0185e-04
-4.5059e-04	-9.3626e-04	-8.0241e-04	-2.7146e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2920e-04	-8.4275e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1312e-04	5.6907e-04	-2.1361e-04
-9.0614e-04	-6.7142e-04	8.2023e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1345e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9290e-06	-5.4213e-05	5.1782e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6747e-04	-1.4851e-04	5.0713e-04
1.6834e-03	1.0289e-03	2.3830e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5601e-04	-6.1578e-05	-1.4344e-04	1.5422e-04
2.3830e-04	6.5601e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1578e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9079e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3881e-04	-6.3670e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3247e-05
-1.5142e-04	1.7766e-04	4.7590e-04	5.6337e-04	2.4936e-04	-2.3238e-04
-3.4620e-04	-4.4452e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3739e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5383e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2045e-05	3.3148e-04

8.7551e-04 5.7302e-04 1.7313e-04 -2.2048e-05 -2.3997e-05 2.2919e-04

Columns 13 through 18:

-2.1362e-04 -3.4233e-04 -3.4667e-04 5.1787e-05 5.0714e-04 5.0395e-04
-5.4697e-04 -8.4199e-04 -7.2342e-04 1.9424e-04 1.1221e-03 1.1859e-03
-8.4199e-04 -8.6723e-04 -3.8511e-04 3.2605e-04 9.4880e-04 1.0762e-03
-7.2343e-04 -3.8511e-04 1.8537e-04 3.6075e-04 3.1077e-04 3.8662e-04
1.9424e-04 3.2605e-04 3.6075e-04 1.6499e-04 -1.7934e-04 -1.5142e-04
1.1221e-03 9.4879e-04 3.1076e-04 -1.7934e-04 -3.2362e-04 -3.4620e-04
1.1859e-03 1.0762e-03 3.8662e-04 -1.5142e-04 -3.4620e-04 -3.8231e-04
4.9291e-04 7.3881e-04 6.7719e-04 1.7766e-04 -4.4452e-04 -4.3739e-04
-4.9079e-04 -6.3670e-05 4.3434e-04 4.7590e-04 3.0185e-04 4.0533e-04
-9.3626e-04 -8.0241e-04 -2.7147e-04 5.6337e-04 1.3233e-03 1.5384e-03
-4.2539e-04 -4.7095e-04 -2.7150e-04 2.4936e-04 7.5575e-04 8.7551e-04
6.6642e-04 4.4617e-04 5.3247e-05 -2.3238e-04 -2.8868e-04 -3.3038e-04
1.4323e-03 1.0522e-03 1.6544e-04 -4.1105e-04 -6.7102e-04 -8.0038e-04
1.0522e-03 1.0387e-03 4.8465e-04 -2.1091e-04 -7.6357e-04 -9.0614e-04
1.6544e-04 4.8465e-04 6.5957e-04 1.4067e-04 -4.7771e-04 -5.1344e-04
-4.1105e-04 -2.1091e-04 1.4067e-04 3.9572e-04 3.8039e-04 4.2435e-04
-6.7102e-04 -7.6357e-04 -4.7771e-04 3.8039e-04 1.3046e-03 1.4520e-03
-8.0038e-04 -9.0614e-04 -5.1344e-04 4.2435e-04 1.4520e-03 1.6834e-03
-9.5258e-04 -6.7142e-04 -4.1684e-05 5.6862e-04 8.4949e-04 1.0289e-03
-2.8897e-04 8.2020e-05 4.6685e-04 3.6298e-04 1.0624e-04 2.3831e-04
8.1312e-04 8.5539e-04 4.8756e-04 6.9307e-06 -2.6746e-04 -2.0575e-04
5.6906e-04 5.0739e-04 1.6120e-04 -5.4216e-05 -1.4851e-04 -1.4810e-04

Columns 19 through 22:

1.5422e-04 -2.8542e-04 -4.5059e-04 -1.9323e-04
4.9291e-04 -4.9078e-04 -9.3626e-04 -4.2539e-04
7.3882e-04 -6.3667e-05 -8.0241e-04 -4.7095e-04
6.7719e-04 4.3434e-04 -2.7146e-04 -2.7150e-04
1.7765e-04 4.7590e-04 5.6337e-04 2.4936e-04
-4.4451e-04 3.0185e-04 1.3233e-03 7.5575e-04
-4.3738e-04 4.0533e-04 1.5383e-03 8.7551e-04
3.6464e-05 7.4603e-04 1.1903e-03 5.7302e-04
7.4603e-04 8.7304e-04 5.8688e-04 1.7313e-04
1.1903e-03 5.8688e-04 1.0772e-04 -2.2048e-05
5.7302e-04 1.7313e-04 -2.2045e-05 -2.3997e-05
-4.8719e-04 -1.7886e-04 3.3148e-04 2.2919e-04
-9.5258e-04 -2.8897e-04 8.1312e-04 5.6906e-04
-6.7142e-04 8.2020e-05 8.5539e-04 5.0739e-04
-4.1684e-05 4.6685e-04 4.8756e-04 1.6120e-04
5.6862e-04 3.6298e-04 6.9307e-06 -5.4216e-05
8.4949e-04 1.0624e-04 -2.6746e-04 -1.4851e-04
1.0289e-03 2.3831e-04 -2.0575e-04 -1.4810e-04
1.1579e-03 6.5601e-04 -6.1574e-05 -1.4344e-04
6.5601e-04 9.5109e-04 7.8937e-04 2.7396e-04

-6.1574e-05 7.8937e-04 1.6643e-03 8.5857e-04
-1.4344e-04 2.7396e-04 8.5857e-04 4.8865e-04

Iteration 23/100 μ :
4.0505e-07

Iteration 23/100 d:

0.258987
0.688557
-0.704347
-1.047616
-0.034257
0.472221
0.161523
0.361063
1.278210
-0.647424
-0.971876
0.439339
0.446613
-0.401857
-0.842532
-0.589931
0.791668
-0.201319
0.172453
1.859238
-1.093831
-1.503277

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 23/100 w(t):

-5.16089 2.39262
-1.36403 4.58703
-6.52270 6.51663
-10.02051 0.19982
-8.00136 2.82906
-5.51062 10.37389
4.68337 13.86596
4.85948 17.26717
10.54627 22.54383
4.79256 9.76209
3.50088 11.43365

Iteration 23/100 error:
3.2669e-06

Iteration 23/100 gradient:

-9.6708e-08
-2.7162e-07
2.8199e-07
4.3441e-07
2.4082e-08
-1.9168e-07
-6.4063e-08
-1.3771e-07
-5.0744e-07
2.7057e-07
4.0011e-07
-1.7104e-07
-1.7003e-07
1.6825e-07
3.5291e-07
2.4144e-07
-3.0931e-07
9.0218e-08
-5.3362e-08
-7.4324e-07
4.4762e-07
6.1621e-07

Iteration 23/100 gradient norm:

1.5527e-06

Iteration 24/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1090e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0613e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1683e-05	5.6863e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2023e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3148e-04	8.1312e-04	8.5539e-04	4.8756e-04	6.9327e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4212e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1788e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1076e-04
5.1786e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0713e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9079e-04	-6.3667e-05	4.3434e-04	4.7591e-04	3.0185e-04

-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2540e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1312e-04	5.6906e-04	-2.1362e-04
-9.0613e-04	-6.7142e-04	8.2023e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1683e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6863e-04	3.6298e-04	6.9327e-06	-5.4212e-05	5.1788e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0575e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1575e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04	-2.8543e-04
-2.0575e-04	-6.1575e-05	7.8937e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9079e-04	-9.3626e-04	-4.2540e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3667e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7590e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6465e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3148e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2046e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1786e-05	5.0713e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1076e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9079e-04	-6.3667e-05	4.3434e-04	4.7590e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2540e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6543e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6356e-04	-9.0614e-04
1.6543e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6356e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1687e-05	5.6862e-04	8.4949e-04	1.0289e-03

-2.8896e-04	8.2023e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9295e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9079e-04	-9.3626e-04	-4.2540e-04
7.3882e-04	-6.3667e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6465e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2046e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2023e-05	8.5539e-04	5.0739e-04
-4.1687e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9295e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 24/100 μ :

2.0252e-07

Iteration 24/100 d:

0.575635
0.317775
-0.627069
-0.575307
-0.111598
0.337490
0.105270
0.412662
0.814828
-0.588564
-0.515943
0.654145
0.189089
-0.482451
-0.471231
-0.395144

0.480280
-0.075791
0.304690
1.115418
-0.825885
-0.775077

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 24/100 w(t):

-4.58526	3.04677
-1.04626	4.77612
-7.14977	6.03418
-10.59581	-0.27141
-8.11296	2.43392
-5.17313	10.85417
4.78864	13.79017
5.27214	17.57186
11.36110	23.65925
4.20400	8.93621
2.98494	10.65857

Iteration 24/100 error:

6.9250e-07

Iteration 24/100 gradient:

-1.1288e-07
-6.2348e-08
1.2891e-07
1.1737e-07
2.4605e-08
-6.6844e-08
-2.0446e-08
-8.1397e-08
-1.6176e-07
1.2136e-07
1.0372e-07
-1.3163e-07
-3.6559e-08
9.9424e-08
9.7620e-08
8.0987e-08
-9.6482e-08
1.9555e-08
-6.0725e-08
-2.2290e-07
1.6611e-07
1.5854e-07

Iteration 24/100 gradient norm:
5.2079e-07

Iteration 25/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6643e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6643e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1090e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7101e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3148e-04	8.1312e-04	8.5539e-04	4.8756e-04	6.9314e-06	-2.6746e-04
2.2919e-04	5.6907e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4276e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1788e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0713e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04	-8.4276e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1312e-04	5.6907e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9314e-06	-5.4213e-05	5.1788e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8937e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6643e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04

-4.3738e-04	3.6465e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3148e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2046e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0713e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6643e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1090e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1090e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1684e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1312e-04	8.5539e-04	4.8756e-04	6.9306e-06	-2.6746e-04	-2.0576e-04
5.6907e-04	5.0739e-04	1.6120e-04	-5.4212e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6465e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2046e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1312e-04	5.6907e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1684e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9306e-06	-5.4212e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04

1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04
-6.1577e-05	7.8937e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04

Iteration 25/100 μ :

1.0126e-07

Iteration 25/100 d:

0.416364
-0.055248
-0.426880
-0.233436
0.054388
0.218234
0.210633
0.232973
0.291971
-0.477999
-0.205354
0.439823
-0.096041
-0.383660
-0.197011
-0.024096
0.259814
0.156042
0.206990
0.383999
-0.542895
-0.283940

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 25/100 w(t):

-4.16890	3.48659
-1.10151	4.68008
-7.57665	5.65052
-10.82925	-0.46842
-8.05857	2.40982
-4.95490	11.11399
4.99928	13.94621
5.50512	17.77885
11.65307	24.04325
3.72600	8.39331
2.77959	10.37463

Iteration 25/100 error:

2.9314e-07

Iteration 25/100 gradient:

-4.2125e-08
5.7952e-09
4.2937e-08
2.3087e-08
-5.3760e-09
-2.2602e-08
-2.1628e-08
-2.4219e-08
-3.0096e-08
4.8090e-08
2.0453e-08
-4.4925e-08
9.4321e-09
3.8595e-08
2.0166e-08
2.8587e-09
-2.6810e-08
-1.5749e-08
-2.1137e-08
-3.9001e-08
5.4490e-08
2.8377e-08

Iteration 25/100 gradient norm:

1.4190e-07

Iteration 26/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6356e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7101e-04	-7.6356e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3148e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9303e-06	-2.6746e-04
2.2919e-04	5.6907e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4276e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1788e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04

5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04	-8.4276e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6907e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9303e-06	-5.4213e-05	5.1788e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6643e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7590e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3148e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2047e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7590e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6643e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04

-6.7101e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9299e-06	-2.6746e-04	-2.0576e-04
5.6907e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2047e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6907e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9299e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04
-6.1577e-05	7.8937e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 26/100 μ :

5.0631e-08

Iteration 26/100 d:

0.194403
-0.395728
-0.348669
-0.114588
0.374512
0.208904
0.479089
0.055386
-0.074615
-0.521970
-0.095968
0.194748
-0.397552

-0.342591
-0.102539
0.361892
0.214143
0.470952
0.056283
-0.057758
-0.535474
-0.107843

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 26/100 w(t):

-3.97449	3.68134
-1.49723	4.28253
-7.92532	5.30792
-10.94384	-0.57096
-7.68406	2.77171
-4.74599	11.32813
5.47837	14.41716
5.56050	17.83513
11.57845	23.98549
3.20403	7.85784
2.68362	10.26679

Iteration 26/100 error:

2.3376e-07

Iteration 26/100 gradient:

-9.7631e-09
1.9681e-08
1.7595e-08
5.6801e-09
-1.9152e-08
-1.0317e-08
-2.3900e-08
-2.7505e-09
3.2495e-09
2.6488e-08
4.7662e-09
-9.8588e-09
2.0128e-08
1.7505e-08
5.4716e-09
-1.8773e-08
-1.0807e-08
-2.3738e-08
-2.6020e-09
2.7936e-09

2.7128e-08
5.4047e-09

Iteration 26/100 gradient norm:
7.2543e-08

Iteration 27/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3238e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3238e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9301e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9301e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8937e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8937e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6643e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05

-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2047e-05	3.3148e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6643e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7101e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9304e-06	-2.6746e-04	-2.0576e-04
5.6907e-04	5.0739e-04	1.6120e-04	-5.4212e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2047e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6907e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04

-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9304e-06	-5.4212e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04

Iteration 27/100 μ :
2.5315e-08

Iteration 27/100 d:

0.158572
-0.805886
-0.488295
-0.151610
0.819203
0.322326
0.949212
-0.042627
-0.299430
-0.877224
-0.084161
0.151482
-0.833418
-0.496736
-0.134051
0.807658
0.300399
0.946775
-0.043907
-0.296474
-0.882665
-0.067024

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 27/100 w(t):

-3.81592	3.83282
-2.30312	3.44911
-8.41361	4.81119
-11.09545	-0.70501
-6.86486	3.57937
-4.42367	11.62853
6.42758	15.36394
5.51788	17.79122
11.27902	23.68902
2.32681	6.97517

2.59946 10.19976

Iteration 27/100 error:

1.7542e-07

Iteration 27/100 gradient:

-3.6176e-09
2.0991e-08
1.3189e-08
4.0750e-09
-2.0130e-08
-7.6524e-09
-2.3900e-08
1.5478e-09
7.6094e-09
2.2529e-08
2.3549e-09
-3.2816e-09
2.1215e-08
1.3144e-08
4.3599e-09
-2.0234e-08
-7.8121e-09
-2.3882e-08
1.2413e-09
7.6663e-09
2.2691e-08
2.2972e-09

Iteration 27/100 gradient norm:

6.7280e-08

Iteration 28/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9303e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4276e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04

-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7590e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4276e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9303e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3148e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04

1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2023e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7590e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2023e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8865e-04

Iteration 28/100 μ :

1.2658e-08

Iteration 28/100 d:

0.225707
-1.491272
-0.862298
-0.245141
1.553337
0.490885
1.749228
-0.132988
-0.471552
-1.635445

-0.076092
0.298058
-1.532964
-0.821693
-0.302174
1.482007
0.544292
1.770371
-0.162452
-0.556907
-1.623347
-0.035176

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 28/100 w(t):

-3.59021 4.13088
-3.79439 1.91615
-9.27591 3.98950
-11.34059 -1.00719
-5.31152 5.06138
-3.93278 12.17282
8.17681 17.13431
5.38489 17.62877
10.80747 23.13211
0.69136 5.35183
2.52336 10.16459

Iteration 28/100 error:

9.2257e-08

Iteration 28/100 gradient:

-3.1814e-09
1.8183e-08
1.0172e-08
3.2755e-09
-1.9913e-08
-6.9688e-09
-2.3455e-08
1.4005e-09
5.7049e-09
1.9299e-08
-1.2296e-10
-2.9811e-09
1.8896e-08
1.0486e-08
3.0585e-09
-2.0176e-08
-7.7316e-09

-2.3822e-08
1.4252e-09
5.8614e-09
2.0167e-08
4.6196e-10

Iteration 28/100 gradient norm:
6.1807e-08

Iteration 29/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7101e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3148e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9303e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4276e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3148e-04	2.2919e-04	-8.4276e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9303e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04

1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7101e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7101e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9304e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05

-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9304e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1578e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1578e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 29/100 μ :
6.3288e-09

Iteration 29/100 d:

0.51646
-2.58531
-1.39125
-0.47377
2.63326
0.76519
2.95761
-0.39147
-0.63210
-2.94341
0.28302
0.41794
-2.54247
-1.21583
-0.59149
2.60951
0.67191
3.18481
-0.52192
-0.62123
-2.96579
0.17470

$\mu = 0.000000 / 2 \rightarrow 0.000000$

Iteration 29/100 w(t):

-3.07376	4.54882
-6.37970	-0.62632
-10.66716	2.77366
-11.81436	-1.59868
-2.67826	7.67089
-3.16759	12.84473
11.13442	20.31911

4.99341 17.10685
10.17537 22.51088
-2.25205 2.38604
2.80638 10.33929

Iteration 29/100 error:
1.3594e-08

Iteration 29/100 gradient:

-3.3225e-09
1.5236e-08
7.6436e-09
2.8898e-09
-1.6710e-08
-3.7243e-09
-2.0380e-08
2.4481e-09
3.7942e-09
1.8183e-08
-1.9775e-09
-2.9274e-09
1.6552e-08
7.7379e-09
3.2103e-09
-1.6144e-08
-4.9627e-09
-2.0371e-08
1.9360e-09
2.9667e-09
1.9649e-08
-8.6371e-10

Iteration 29/100 gradient norm:
5.3157e-08

Iteration 30/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04

-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03

-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 30/100 μ :

3.1644e-09

Iteration 30/100 d:

0.716445
-3.857069
-1.646947
-0.861091
4.046724
0.508305
4.914047

-1.302309
-0.064337
-5.218456
1.574420
0.812738
-3.819132
-1.538748
-1.168526
4.147629
0.625523
4.951349
-1.470346
-0.106877
-5.095838
1.378367

$$\mu = 0.000000 * 2 \rightarrow 0.000000$$

Iteration 30/100 d:

0.40969
-2.18924
-1.01029
-0.48024
2.27119
0.43805
2.71077
-0.58047
-0.26406
-2.75273
0.56965
0.43674
-2.17933
-0.97877
-0.56788
2.29879
0.46589
2.72178
-0.62901
-0.27530
-2.72275
0.51226

$$\mu = 0.000000 / 2 \rightarrow 0.000000$$

Iteration 30/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565
-11.67746 1.79489
-12.29460 -2.16656

-0.40707	9.96968
-2.72954	13.31062
13.84519	23.04089
4.41294	16.47785
9.91131	22.23559
-5.00478	-0.33671
3.37603	10.85155

Iteration 30/100 error:
1.3769e-09

Iteration 30/100 gradient:

-3.0926e-09
1.3685e-08
5.7368e-09
3.4846e-09
-1.4665e-08
-2.8565e-09
-1.6987e-08
3.5786e-09
1.8163e-09
1.7326e-08
-3.5764e-09
-3.3791e-09
1.3634e-08
5.9477e-09
3.3042e-09
-1.4539e-08
-2.8467e-09
-1.7164e-08
3.7379e-09
1.6983e-09
1.7310e-08
-3.4095e-09

Iteration 30/100 gradient norm:
4.6568e-08

Iteration 31/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04

-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04

4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 31/100 μ :

3.1644e-09

Iteration 31/100 d:

0.851149

-3.391552

-1.001418

-1.120397

3.648868
0.106853
4.397048
-1.591590
0.404901
-4.696420
1.789045
0.866504
-3.376091
-0.995029
-1.110234
3.660491
0.091867
4.401933
-1.571920
0.416341
-4.734190
1.805953

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.439542
-1.898066
-0.682068
-0.555931
2.012590
0.202278
2.404482
-0.719862
0.017219
-2.495287
0.747357
0.444717
-1.894915
-0.680615
-0.555156
2.015437
0.197944
2.404972
-0.715749
0.019062
-2.505235
0.751048

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.224564

-1.015889
-0.401023
-0.276975
1.068086
0.150222
1.269875
-0.335196
-0.052703
-1.295899
0.325053
0.226101
-1.015251
-0.400648
-0.277046
1.068718
0.149081
1.269832
-0.334327
-0.052336
-1.298525
0.325820

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.113837
-0.527478
-0.218130
-0.138250
0.552016
0.089448
0.654639
-0.160336
-0.044269
-0.662043
0.148351
0.114280
-0.527372
-0.218000
-0.138281
0.552095
0.089191
0.654558
-0.160167
-0.044118
-0.662774
0.148453

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.057480
-0.269036
-0.113929
-0.069061
0.280846
0.048617
0.332651
-0.078118
-0.026990
-0.334876
0.070369
0.057621
-0.269047
-0.113859
-0.069047
0.280791
0.048592
0.332577
-0.078108
-0.026873
-0.335122
0.070317

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.029001
-0.135894
-0.058297
-0.034506
0.141654
0.025322
0.167704
-0.038456
-0.014757
-0.168466
0.034236
0.029061
-0.135929
-0.058245
-0.034478
0.141571
0.025353
0.167638
-0.038480
-0.014653
-0.168584

0.034154

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.0146487
-0.0682966
-0.0295317
-0.0172364
0.0711216
0.0129143
0.0841960
-0.0190242
-0.0077060
-0.0845070
0.0169157
0.0146842
-0.0683332
-0.0294892
-0.0172073
0.0710422
0.0129542
0.0841390
-0.0190529
-0.0076164
-0.0845845
0.0168364

$\mu = 0.000000 * 2 \rightarrow 0.000000$

Iteration 31/100 d:

0.0074088
-0.0342388
-0.0148857
-0.0086036
0.0356254
0.0065160
0.0421797
-0.0094316
-0.0039470
-0.0423258
0.0084379
0.0074337
-0.0342691
-0.0148528
-0.0085792
0.0355606
0.0065505
0.0421347

-0.0094563
-0.0038758
-0.0423819
0.0083730

$\mu = 0.000000 * 2 \rightarrow 0.000001$

Iteration 31/100 d:

0.0037470
-0.0171453
-0.0074818
-0.0042912
0.0178254
0.0032700
0.0211071
-0.0046820
-0.0020068
-0.0211808
0.0042327
0.0037644
-0.0171670
-0.0074589
-0.0042733
0.0177789
0.0032950
0.0210755
-0.0047002
-0.0019562
-0.0212194
0.0041860

$\mu = 0.000001 * 2 \rightarrow 0.000002$

Iteration 31/100 d:

1.8914e-03
-8.5816e-03
-3.7524e-03
-2.1402e-03
8.9149e-03
1.6379e-03
1.0555e-02
-2.3275e-03
-1.0167e-03
-1.0595e-02
2.1283e-03
1.9029e-03
-8.5951e-03
-3.7385e-03
-2.1283e-03

8.8853e-03
1.6538e-03
1.0536e-02
-2.3395e-03
-9.8460e-04
-1.0619e-02
2.0983e-03

$$\mu = 0.000002 * 2 \rightarrow 0.000003$$

Iteration 31/100 d:

9.5185e-04
-4.2944e-03
-1.8785e-03
-1.0683e-03
4.4579e-03
8.2087e-04
5.2764e-03
-1.1586e-03
-5.1336e-04
-5.2986e-03
1.0702e-03
9.5912e-04
-4.3021e-03
-1.8711e-03
-1.0609e-03
4.4407e-03
8.2998e-04
5.2658e-03
-1.1660e-03
-4.9480e-04
-5.3123e-03
1.0526e-03

$$\mu = 0.000003 * 2 \rightarrow 0.000006$$

Iteration 31/100 d:

4.7752e-04
-2.1489e-03
-9.3888e-04
-5.3396e-04
2.2291e-03
4.1215e-04
2.6366e-03
-5.7733e-04
-2.5841e-04
-2.6501e-03
5.3774e-04
4.8217e-04

-2.1528e-03
-9.3550e-04
-5.2945e-04
2.2197e-03
4.1699e-04
2.6314e-03
-5.8180e-04
-2.4831e-04
-2.6573e-03
5.2792e-04

$\mu = 0.000006 * 2 \rightarrow 0.000013$

Iteration 31/100 d:

2.3891e-04
-1.0752e-03
-4.6859e-04
-2.6728e-04
1.1147e-03
2.0726e-04
1.3171e-03
-2.8772e-04
-1.2981e-04
-1.3256e-03
2.7003e-04
2.4204e-04
-1.0771e-03
-4.6745e-04
-2.6441e-04
1.1097e-03
2.0970e-04
1.3150e-03
-2.9051e-04
-1.2449e-04
-1.3292e-03
2.6461e-04

$\mu = 0.000013 * 2 \rightarrow 0.000026$

Iteration 31/100 d:

1.1925e-04
-5.3789e-04
-2.3359e-04
-1.3395e-04
5.5758e-04
1.0427e-04
6.5780e-04
-1.4330e-04
-6.5147e-05

-6.6314e-04
1.3554e-04
1.2150e-04
-5.3863e-04
-2.3358e-04
-1.3202e-04
5.5494e-04
1.0542e-04
6.5724e-04
-1.4513e-04
-6.2383e-05
-6.6487e-04
1.3251e-04

$$\mu = 0.000026 * 2 \rightarrow 0.000052$$

Iteration 31/100 d:

5.9400e-05
-2.6898e-04
-1.1630e-04
-6.7193e-05
2.7901e-04
5.2411e-05
3.2847e-04
-7.1269e-05
-3.2702e-05
-3.3181e-04
6.8021e-05
6.1067e-05
-2.6918e-04
-1.1677e-04
-6.5841e-05
2.7760e-04
5.2916e-05
3.2862e-04
-7.2520e-05
-3.1257e-05
-3.3256e-04
6.6274e-05

$$\mu = 0.000052 * 2 \rightarrow 0.000104$$

Iteration 31/100 d:

2.9545e-05
-1.3442e-04
-5.7825e-05
-3.3709e-05
1.3970e-04
2.6321e-05

1.6399e-04
-3.5388e-05
-1.6434e-05
-1.6606e-04
3.4129e-05
3.0758e-05
-1.3440e-04
-5.8393e-05
-3.2778e-05
1.3893e-04
2.6516e-05
1.6438e-04
-3.6236e-05
-1.5664e-05
-1.6635e-04
3.3103e-05

$\mu = 0.000104 * 2 \rightarrow 0.000207$

Iteration 31/100 d:

1.4697e-05
-6.7115e-05
-2.8707e-05
-1.6888e-05
6.9999e-05
1.3216e-05
8.1877e-05
-1.7553e-05
-8.2728e-06
-8.3134e-05
1.7114e-05
1.5522e-05
-6.7038e-05
-2.9187e-05
-1.6287e-05
6.9566e-05
1.3276e-05
8.2248e-05
-1.8096e-05
-7.8535e-06
-8.3225e-05
1.6517e-05

$\mu = 0.000207 * 2 \rightarrow 0.000415$

Iteration 31/100 d:

7.3277e-06
-3.3480e-05
-1.4236e-05

-8.4376e-06
3.5093e-05
6.6409e-06
4.0890e-05
-8.7098e-06
-4.1712e-06
-4.1628e-05
8.5721e-06
7.8404e-06
-3.3409e-05
-1.4567e-05
-8.0805e-06
3.4850e-05
6.6515e-06
4.1158e-05
-9.0299e-06
-3.9405e-06
-4.1645e-05
8.2361e-06

$$\mu = 0.000415 * 2 \rightarrow 0.000830$$

Iteration 31/100 d:

3.6653e-06
-1.6691e-05
-7.0588e-06
-4.2058e-06
1.7594e-05
3.3406e-06
2.0432e-05
-4.3291e-06
-2.1050e-06
-2.0844e-05
4.2890e-06
3.9593e-06
-1.6643e-05
-7.2594e-06
-4.0086e-06
1.7461e-05
3.3379e-06
2.0597e-05
-4.5052e-06
-1.9798e-06
-2.0841e-05
4.1076e-06

$$\mu = 0.000830 * 2 \rightarrow 0.001659$$

Iteration 31/100 d:

1.8379e-06
-8.3193e-06
-3.5041e-06
-2.0964e-06
8.8158e-06
1.6819e-06
1.0216e-05
-2.1568e-06
-1.0625e-06
-1.0434e-05
2.1453e-06
1.9969e-06
-8.2913e-06
-3.6157e-06
-1.9925e-06
8.7454e-06
1.6778e-06
1.0308e-05
-2.2494e-06
-9.9623e-07
-1.0428e-05
2.0505e-06

$$\mu = 0.001659 * 2 \rightarrow 0.003318$$

Iteration 31/100 d:

9.2254e-07
-4.1481e-06
-1.7428e-06
-1.0468e-06
4.4140e-06
8.4681e-07
5.1100e-06
-1.0768e-06
-5.3603e-07
-5.2202e-06
1.0735e-06
1.0054e-06
-4.1330e-06
-1.8019e-06
-9.9346e-07
4.3775e-06
8.4402e-07
5.1593e-06
-1.1243e-06
-5.0176e-07
-5.2162e-06
1.0249e-06

$$\mu = 0.003318 * 2 \rightarrow 0.006636$$

Iteration 31/100 d:

4.6294e-07
-2.0695e-06
-8.6838e-07
-5.2354e-07
2.2086e-06
4.2597e-07
2.5565e-06
-5.3838e-07
-2.7007e-07
-2.6108e-06
5.3737e-07
5.0529e-07
-2.0617e-06
-8.9890e-07
-4.9656e-07
2.1900e-06
4.2441e-07
2.5820e-06
-5.6235e-07
-2.5261e-07
-2.6085e-06
5.1272e-07

$$\mu = 0.006636 * 2 \rightarrow 0.013273$$

Iteration 31/100 d:

2.3210e-07
-1.0332e-06
-4.3329e-07
-2.6201e-07
1.1046e-06
2.1392e-07
1.2789e-06
-2.6931e-07
-1.3579e-07
-1.3055e-06
2.6897e-07
2.5350e-07
-1.0293e-06
-4.4883e-07
-2.4845e-07
1.0953e-06
2.1312e-07
1.2919e-06
-2.8133e-07
-1.2697e-07

-1.3043e-06
2.5654e-07

$\mu = 0.013273 / 2 \rightarrow 0.006636$

Iteration 31/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565
-11.67746 1.79489
-12.29460 -2.16656
-0.40707 9.96968
-2.72954 13.31062
13.84519 23.04089
4.41294 16.47784
9.91131 22.23559
-5.00479 -0.33671
3.37603 10.85155

Iteration 31/100 error:

1.3769e-09

Iteration 31/100 gradient:

-3.0806e-09
1.3713e-08
5.7509e-09
3.4775e-09
-1.4661e-08
-2.8393e-09
-1.6974e-08
3.5744e-09
1.8022e-09
1.7327e-08
-3.5699e-09
-3.3645e-09
1.3661e-08
5.9571e-09
3.2975e-09
-1.4537e-08
-2.8287e-09
-1.7147e-08
3.7340e-09
1.6853e-09
1.7311e-08
-3.4050e-09

Iteration 31/100 gradient norm:

4.6567e-08

Iteration 32/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04

-1.4344e-04 2.7396e-04 8.5857e-04 4.8864e-04

Iteration 32/100 μ :
0.0066363

Iteration 32/100 d:

4.6168e-07
-2.0726e-06
-8.7018e-07
-5.2306e-07
2.2079e-06
4.2409e-07
2.5552e-06
-5.3815e-07
-2.6856e-07
-2.6106e-06
5.3679e-07
5.0358e-07
-2.0649e-06
-9.0015e-07
-4.9621e-07
2.1894e-06
4.2257e-07
2.5802e-06
-5.6203e-07
-2.5127e-07
-2.6085e-06
5.1235e-07

$\mu = 0.006636 * 2 \rightarrow 0.013273$

Iteration 32/100 d:

2.3136e-07
-1.0350e-06
-4.3426e-07
-2.6165e-07
1.1043e-06
2.1283e-07
1.2781e-06
-2.6912e-07
-1.3491e-07
-1.3055e-06
2.6861e-07
2.5254e-07
-1.0311e-06
-4.4950e-07
-2.4815e-07
1.0950e-06
2.1203e-07

1.2908e-06
-2.8112e-07
-1.2618e-07
-1.3043e-06
2.5629e-07

$$\mu = 0.013273 * 2 \rightarrow 0.026545$$

Iteration 32/100 d:

1.1585e-07
-5.1708e-07
-2.1690e-07
-1.3090e-07
5.5224e-07
1.0666e-07
6.3923e-07
-1.3459e-07
-6.7653e-08
-6.5274e-07
1.3438e-07
1.2649e-07
-5.1511e-07
-2.2459e-07
-1.2413e-07
5.4757e-07
1.0626e-07
6.4565e-07
-1.4060e-07
-6.3267e-08
-6.5215e-07
1.2820e-07

$$\mu = 0.026545 / 2 \rightarrow 0.013273$$

Iteration 32/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565
-11.67746 1.79489
-12.29460 -2.16656
-0.40707 9.96968
-2.72954 13.31062
13.84519 23.04090
4.41294 16.47784
9.91131 22.23559
-5.00479 -0.33671
3.37603 10.85155

Iteration 32/100 error:

1.3769e-09

Iteration 32/100 gradient:

-3.0752e-09
1.3726e-08
5.7576e-09
3.4746e-09
-1.4659e-08
-2.8314e-09
-1.6968e-08
3.5728e-09
1.7958e-09
1.7327e-08
-3.5672e-09
-3.3578e-09
1.3674e-08
5.9617e-09
3.2950e-09
-1.4535e-08
-2.8207e-09
-1.7139e-08
3.7323e-09
1.6794e-09
1.7311e-08
-3.4031e-09

Iteration 32/100 gradient norm:

4.6567e-08

Iteration 33/100 Hessian matrix:

Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04

1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03

-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 33/100 μ :
0.013273

Iteration 33/100 d:

2.3103e-07
-1.0358e-06
-4.3472e-07
-2.6151e-07
1.1041e-06
2.1233e-07
1.2778e-06
-2.6905e-07
-1.3451e-07
-1.3054e-06
2.6845e-07
2.5210e-07
-1.0319e-06
-4.4982e-07

-2.4805e-07
1.0949e-06
2.1155e-07
1.2903e-06
-2.8103e-07
-1.2582e-07
-1.3043e-06
2.5619e-07

$$\mu = 0.013273 * 2 \rightarrow 0.026545$$

Iteration 33/100 d:

1.1567e-07
-5.1752e-07
-2.1714e-07
-1.3081e-07
5.5216e-07
1.0639e-07
6.3903e-07
-1.3455e-07
-6.7435e-08
-6.5274e-07
1.3429e-07
1.2626e-07
-5.1555e-07
-2.2475e-07
-1.2406e-07
5.4751e-07
1.0599e-07
6.4539e-07
-1.4055e-07
-6.3071e-08
-6.5215e-07
1.2814e-07

$$\mu = 0.026545 * 2 \rightarrow 0.053090$$

Iteration 33/100 d:

5.7876e-08
-2.5865e-07
-1.0851e-07
-6.5424e-08
2.7610e-07
5.3261e-08
3.1956e-07
-6.7284e-08
-3.3769e-08
-3.2637e-07
6.7167e-08

6.3185e-08
-2.5767e-07
-1.1234e-07
-6.2043e-08
2.7377e-07
5.3059e-08
3.2276e-07
-7.0287e-08
-3.1582e-08
-3.2608e-07
6.4083e-08

$$\mu = 0.053090 * 2 \rightarrow 0.106180$$

Iteration 33/100 d:

2.8950e-08
-1.2930e-07
-5.4240e-08
-3.2718e-08
1.3806e-07
2.6648e-08
1.5979e-07
-3.3645e-08
-1.6899e-08
-1.6319e-07
3.3589e-08
3.1608e-08
-1.2881e-07
-5.6157e-08
-3.1027e-08
1.3689e-07
2.6547e-08
1.6139e-07
-3.5147e-08
-1.5803e-08
-1.6304e-07
3.2045e-08

$$\mu = 0.106180 * 2 \rightarrow 0.212361$$

Iteration 33/100 d:

1.4478e-08
-6.4642e-08
-2.7116e-08
-1.6360e-08
6.9029e-08
1.3328e-08
7.9900e-08
-1.6823e-08

-8.4529e-09
-8.1593e-08
1.6796e-08
1.5808e-08
-6.4396e-08
-2.8076e-08
-1.5515e-08
6.8446e-08
1.3278e-08
8.0702e-08
-1.7574e-08
-7.9050e-09
-8.1519e-08
1.6024e-08

$$\mu = 0.212361 / 2 \rightarrow 0.106180$$

Iteration 33/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565
-11.67746 1.79489
-12.29460 -2.16656
-0.40707 9.96968
-2.72954 13.31062
13.84519 23.04090
4.41294 16.47784
9.91131 22.23559
-5.00479 -0.33671
3.37603 10.85155

Iteration 33/100 error:

1.3769e-09

Iteration 33/100 gradient:

-3.0745e-09
1.3727e-08
5.7584e-09
3.4743e-09
-1.4659e-08
-2.8304e-09
-1.6968e-08
3.5726e-09
1.7951e-09
1.7327e-08
-3.5668e-09
-3.3569e-09
1.3675e-08
5.9622e-09
3.2947e-09

-1.4535e-08
-2.8197e-09
-1.7138e-08
3.7321e-09
1.6787e-09
1.7311e-08
-3.4028e-09

Iteration 33/100 gradient norm:
4.6567e-08

Iteration 34/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04	6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04
6.6642e-04	1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04
4.4617e-04	1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04
5.3246e-05	1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04
-2.3237e-04	-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04
-2.8868e-04	-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03
-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04

-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04
1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04

1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 34/100 μ :
0.10618

Iteration 34/100 d:

2.8944e-08
-1.2931e-07
-5.4248e-08
-3.2714e-08
1.3805e-07
2.6639e-08
1.5979e-07
-3.3643e-08
-1.6891e-08
-1.6319e-07
3.3586e-08
3.1600e-08
-1.2882e-07
-5.6163e-08
-3.1024e-08
1.3689e-07
2.6538e-08
1.6139e-07
-3.5145e-08
-1.5797e-08
-1.6304e-07
3.2043e-08

$\mu = 0.106180 * 2 \rightarrow 0.212361$

Iteration 34/100 d:

1.4475e-08
-6.4649e-08
-2.7120e-08
-1.6359e-08
6.9028e-08

1.3324e-08
7.9897e-08
-1.6822e-08
-8.4492e-09
-8.1593e-08
1.6795e-08
1.5804e-08
-6.4403e-08
-2.8079e-08
-1.5513e-08
6.8445e-08
1.3273e-08
8.0697e-08
-1.7573e-08
-7.9017e-09
-8.1519e-08
1.6023e-08

$$\mu = 0.212361 * 2 \rightarrow 0.424721$$

Iteration 34/100 d:

7.2382e-09
-3.2323e-08
-1.3559e-08
-8.1798e-09
3.4514e-08
6.6631e-09
3.9949e-08
-8.4114e-09
-4.2255e-09
-4.0796e-08
8.3976e-09
7.9029e-09
-3.2200e-08
-1.4039e-08
-7.7569e-09
3.4223e-08
6.6378e-09
4.0350e-08
-8.7870e-09
-3.9517e-09
-4.0759e-08
8.0116e-09

$$\mu = 0.424721 / 2 \rightarrow 0.212361$$

Iteration 34/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565

-11.67746 1.79489
-12.29460 -2.16656
-0.40707 9.96968
-2.72954 13.31062
13.84519 23.04090
4.41294 16.47784
9.91131 22.23559
-5.00479 -0.33671
3.37603 10.85155

Iteration 34/100 error:
1.3769e-09

Iteration 34/100 gradient:

-3.0742e-09
1.3728e-08
5.7589e-09
3.4741e-09
-1.4659e-08
-2.8300e-09
-1.6967e-08
3.5725e-09
1.7947e-09
1.7327e-08
-3.5667e-09
-3.3565e-09
1.3676e-08
5.9625e-09
3.2945e-09
-1.4535e-08
-2.8192e-09
-1.7137e-08
3.7320e-09
1.6784e-09
1.7311e-08
-3.4027e-09

Iteration 34/100 gradient norm:
4.6567e-08

Iteration 35/100 Hessian matrix:
Columns 1 through 6:

3.4152e-04 6.6642e-04 4.4617e-04 5.3246e-05 -2.3237e-04 -2.8868e-04
6.6642e-04 1.4323e-03 1.0522e-03 1.6544e-04 -4.1105e-04 -6.7102e-04
4.4617e-04 1.0522e-03 1.0387e-03 4.8465e-04 -2.1091e-04 -7.6357e-04
5.3246e-05 1.6544e-04 4.8465e-04 6.5957e-04 1.4067e-04 -4.7771e-04
-2.3237e-04 -4.1105e-04 -2.1091e-04 1.4067e-04 3.9572e-04 3.8039e-04
-2.8868e-04 -6.7102e-04 -7.6357e-04 -4.7771e-04 3.8039e-04 1.3046e-03

-3.3038e-04	-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03
-4.8719e-04	-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04
-1.7886e-04	-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04
3.3147e-04	8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04
2.2919e-04	5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04
-8.4277e-05	-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04
-2.1362e-04	-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03
-3.4233e-04	-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04
-3.4667e-04	-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04
5.1787e-05	1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04
5.0714e-04	1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04
5.0395e-04	1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04
1.5422e-04	4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04
-2.8543e-04	-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04
-4.5060e-04	-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03
-1.9323e-04	-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04

Columns 7 through 12:

-3.3038e-04	-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04	-8.4277e-05
-8.0037e-04	-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04	-2.1362e-04
-9.0614e-04	-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04	-3.4233e-04
-5.1344e-04	-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04	-3.4667e-04
4.2435e-04	5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05	5.1787e-05
1.4520e-03	8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04	5.0714e-04
1.6834e-03	1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04	5.0395e-04
1.0289e-03	1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04	1.5422e-04
2.3831e-04	6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04	-2.8543e-04
-2.0576e-04	-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04	-4.5060e-04
-1.4810e-04	-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04	-1.9323e-04
5.0395e-04	1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04	3.4152e-04
1.1859e-03	4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04	6.6642e-04
1.0762e-03	7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04	4.4617e-04
3.8662e-04	6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04	5.3246e-05
-1.5142e-04	1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04	-2.3237e-04
-3.4620e-04	-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04	-2.8868e-04
-3.8231e-04	-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04	-3.3038e-04
-4.3738e-04	3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04	-4.8719e-04
4.0533e-04	7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04	-1.7886e-04
1.5384e-03	1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05	3.3147e-04
8.7551e-04	5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05	2.2919e-04

Columns 13 through 18:

-2.1362e-04	-3.4233e-04	-3.4667e-04	5.1787e-05	5.0714e-04	5.0395e-04
-5.4697e-04	-8.4199e-04	-7.2343e-04	1.9424e-04	1.1221e-03	1.1859e-03
-8.4199e-04	-8.6723e-04	-3.8511e-04	3.2605e-04	9.4880e-04	1.0762e-03
-7.2343e-04	-3.8511e-04	1.8537e-04	3.6075e-04	3.1077e-04	3.8662e-04
1.9424e-04	3.2605e-04	3.6075e-04	1.6499e-04	-1.7934e-04	-1.5142e-04

1.1221e-03	9.4880e-04	3.1077e-04	-1.7934e-04	-3.2362e-04	-3.4620e-04
1.1859e-03	1.0762e-03	3.8662e-04	-1.5142e-04	-3.4620e-04	-3.8231e-04
4.9291e-04	7.3882e-04	6.7719e-04	1.7766e-04	-4.4451e-04	-4.3738e-04
-4.9078e-04	-6.3666e-05	4.3434e-04	4.7591e-04	3.0185e-04	4.0533e-04
-9.3626e-04	-8.0241e-04	-2.7147e-04	5.6337e-04	1.3233e-03	1.5384e-03
-4.2539e-04	-4.7095e-04	-2.7150e-04	2.4936e-04	7.5575e-04	8.7551e-04
6.6642e-04	4.4617e-04	5.3246e-05	-2.3237e-04	-2.8868e-04	-3.3038e-04
1.4323e-03	1.0522e-03	1.6544e-04	-4.1105e-04	-6.7102e-04	-8.0037e-04
1.0522e-03	1.0387e-03	4.8465e-04	-2.1091e-04	-7.6357e-04	-9.0614e-04
1.6544e-04	4.8465e-04	6.5957e-04	1.4067e-04	-4.7771e-04	-5.1344e-04
-4.1105e-04	-2.1091e-04	1.4067e-04	3.9572e-04	3.8039e-04	4.2435e-04
-6.7102e-04	-7.6357e-04	-4.7771e-04	3.8039e-04	1.3046e-03	1.4520e-03
-8.0037e-04	-9.0614e-04	-5.1344e-04	4.2435e-04	1.4520e-03	1.6834e-03
-9.5258e-04	-6.7142e-04	-4.1685e-05	5.6862e-04	8.4949e-04	1.0289e-03
-2.8896e-04	8.2024e-05	4.6685e-04	3.6298e-04	1.0624e-04	2.3831e-04
8.1311e-04	8.5539e-04	4.8756e-04	6.9302e-06	-2.6746e-04	-2.0576e-04
5.6906e-04	5.0739e-04	1.6120e-04	-5.4213e-05	-1.4851e-04	-1.4810e-04

Columns 19 through 22:

1.5422e-04	-2.8543e-04	-4.5060e-04	-1.9323e-04
4.9291e-04	-4.9078e-04	-9.3626e-04	-4.2539e-04
7.3882e-04	-6.3666e-05	-8.0241e-04	-4.7095e-04
6.7719e-04	4.3434e-04	-2.7147e-04	-2.7150e-04
1.7766e-04	4.7591e-04	5.6337e-04	2.4936e-04
-4.4451e-04	3.0185e-04	1.3233e-03	7.5575e-04
-4.3738e-04	4.0533e-04	1.5384e-03	8.7551e-04
3.6464e-05	7.4603e-04	1.1903e-03	5.7302e-04
7.4603e-04	8.7304e-04	5.8688e-04	1.7313e-04
1.1903e-03	5.8688e-04	1.0772e-04	-2.2048e-05
5.7302e-04	1.7313e-04	-2.2048e-05	-2.3998e-05
-4.8719e-04	-1.7886e-04	3.3147e-04	2.2919e-04
-9.5258e-04	-2.8896e-04	8.1311e-04	5.6906e-04
-6.7142e-04	8.2024e-05	8.5539e-04	5.0739e-04
-4.1685e-05	4.6685e-04	4.8756e-04	1.6120e-04
5.6862e-04	3.6298e-04	6.9302e-06	-5.4213e-05
8.4949e-04	1.0624e-04	-2.6746e-04	-1.4851e-04
1.0289e-03	2.3831e-04	-2.0576e-04	-1.4810e-04
1.1579e-03	6.5602e-04	-6.1577e-05	-1.4344e-04
6.5602e-04	9.5109e-04	7.8936e-04	2.7396e-04
-6.1577e-05	7.8936e-04	1.6643e-03	8.5857e-04
-1.4344e-04	2.7396e-04	8.5857e-04	4.8864e-04

Iteration 35/100 μ :
0.21236

Iteration 35/100 d:
1.4473e-08
-6.4653e-08

-2.7122e-08
-1.6358e-08
6.9027e-08
1.3322e-08
7.9895e-08
-1.6822e-08
-8.4474e-09
-8.1593e-08
1.6794e-08
1.5802e-08
-6.4407e-08
-2.8080e-08
-1.5513e-08
6.8445e-08
1.3271e-08
8.0695e-08
-1.7573e-08
-7.9000e-09
-8.1519e-08
1.6022e-08

$$\mu = 0.212361 * 2 \rightarrow 0.424721$$

Iteration 35/100 d:

7.2374e-09
-3.2325e-08
-1.3560e-08
-8.1794e-09
3.4514e-08
6.6620e-09
3.9948e-08
-8.4112e-09
-4.2246e-09
-4.0796e-08
8.3973e-09
7.9019e-09
-3.2202e-08
-1.4039e-08
-7.7566e-09
3.4223e-08
6.6367e-09
4.0349e-08
-8.7867e-09
-3.9508e-09
-4.0759e-08
8.0114e-09

$$\mu = 0.424721 * 2 \rightarrow 0.849443$$

Iteration 35/100 d:

3.6189e-09
-1.6162e-08
-6.7798e-09
-4.0898e-09
1.7257e-08
3.3313e-09
1.9974e-08
-4.2057e-09
-2.1125e-09
-2.0398e-08
4.1987e-09
3.9512e-09
-1.6100e-08
-7.0195e-09
-3.8784e-09
1.7111e-08
3.3186e-09
2.0175e-08
-4.3934e-09
-1.9756e-09
-2.0380e-08
4.0057e-09

$\mu = 0.849443 * 2 \rightarrow 1.698885$

Iteration 35/100 d:

1.8095e-09
-8.0808e-09
-3.3898e-09
-2.0449e-09
8.6286e-09
1.6657e-09
9.9872e-09
-2.1028e-09
-1.0563e-09
-1.0199e-08
2.0994e-09
1.9757e-09
-8.0501e-09
-3.5097e-09
-1.9392e-09
8.5557e-09
1.6594e-09
1.0087e-08
-2.1967e-09
-9.8786e-10
-1.0190e-08
2.0029e-09

$$\mu = 1.698885 * 2 \rightarrow 3.397771$$

Iteration 35/100 d:

9.0476e-10
-4.0404e-09
-1.6949e-09
-1.0225e-09
4.3143e-09
8.3287e-10
4.9936e-09
-1.0514e-09
-5.2818e-10
-5.0995e-09
1.0497e-09
9.8784e-10
-4.0250e-09
-1.7548e-09
-9.6961e-10
4.2778e-09
8.2971e-10
5.0437e-09
-1.0984e-09
-4.9394e-10
-5.0949e-09
1.0014e-09

$$\mu = 3.397771 / 2 \rightarrow 1.698885$$

Iteration 35/100 w(t):

-2.66407 4.98556
-8.56894 -2.80565
-11.67746 1.79489
-12.29460 -2.16656
-0.40707 9.96968
-2.72954 13.31062
13.84519 23.04090
4.41294 16.47784
9.91131 22.23559
-5.00479 -0.33671
3.37603 10.85155

Iteration 35/100 error:

1.3769e-09

Iteration 35/100 gradient:

-3.0742e-09
1.3728e-08
5.7589e-09

3.4741e-09
-1.4659e-08
-2.8299e-09
-1.6967e-08
3.5725e-09
1.7946e-09
1.7327e-08
-3.5666e-09
-3.3565e-09
1.3676e-08
5.9626e-09
3.2945e-09
-1.4535e-08
-2.8192e-09
-1.7137e-08
3.7320e-09
1.6783e-09
1.7311e-08
-3.4027e-09

Iteration 35/100 gradient norm:
4.6567e-08