Calling sedumi: 496 variables, 88 equality constraints

For improved efficiency, sedumi is solving the dual problem.

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SeDuMi 1.21 by AdvOL, 2005-2008 and Jos F. Sturm, 1998-2003.

Alg = 2: xz-corrector, Adaptive Step-Differentiation, theta = 0.250, beta = 0.500

eqs m = 88, order n = 117, dim = 877, blocks = 4

nnz(A) = 924 + 0, nnz(ADA) = 7402, nnz(L) = 3745

it : b\*y gap delta rate t/tP\* t/tD\* feas cg cg prec

0 : 1.37E+002 0.000

1 : 1.63E+002 6.49E+001 0.000 0.4751 0.9000 0.9000 3.98 1 1 3.1E+001

2 : 1.94E+001 2.69E+001 0.000 0.4147 0.9000 0.9000 1.69 1 1 9.7E+000

3 : -1.75E+000 9.35E+000 0.000 0.3477 0.9000 0.9000 2.04 1 1 2.4E+000

4 : 4.83E+000 3.52E+000 0.000 0.3759 0.9000 0.9000 0.80 1 1 1.3E+000

5 : 2.70E+001 1.34E+000 0.000 0.3799 0.9000 0.9000 0.41 1 1 5.9E-001

6 : 3.79E+001 6.65E-001 0.000 0.4980 0.9000 0.9000 0.83 1 1 3.0E-001

7 : 4.57E+001 1.67E-001 0.000 0.2517 0.9000 0.9000 0.98 1 1 7.5E-002

8 : 4.81E+001 4.58E-004 0.000 0.0027 0.0000 0.9000 1.07 1 1 6.6E-002

9 : 4.81E+001 1.10E-004 0.000 0.2405 0.9000 0.0000 1.06 1 1 1.9E-002

10 : 4.84E+001 4.14E-005 0.000 0.3765 0.9000 0.6693 1.06 1 1 7.3E-003

11 : 4.86E+001 9.22E-006 0.000 0.2224 0.8990 0.9000 1.03 1 1 1.6E-003

12 : 4.87E+001 2.90E-006 0.000 0.3143 0.9000 0.9000 1.01 1 1 5.0E-004

13 : 4.87E+001 1.04E-006 0.000 0.3582 0.9000 0.9000 1.00 1 1 1.8E-004

14 : 4.87E+001 3.71E-007 0.000 0.3574 0.9000 0.9000 1.00 1 2 6.3E-005

15 : 4.87E+001 1.81E-008 0.000 0.0488 0.9900 0.9900 1.00 1 5 3.1E-006

16 : 4.87E+001 6.11E-010 0.000 0.0337 0.9900 0.9900 1.00 1 6 1.0E-007

17 : 4.87E+001 6.44E-011 0.000 0.1055 0.9450 0.9450 1.00 2 7 1.1E-008

iter seconds digits c\*x b\*y

17 0.6 Inf 4.8664865149e+001 4.8664865165e+001

|Ax-b| = 6.8e-008, [Ay-c]\_+ = 1.0E-008, |x|= 1.1e+001, |y|= 3.9e+002

Detailed timing (sec)

Pre IPM Post

1.719E-001 5.781E-001 4.688E-002

Max-norms: ||b||=3.324000e+000, ||c|| = 200,

Cholesky |add|=0, |skip| = 21, ||L.L|| = 6.52164.

------------------------------------------------------------

Status: Solved

Optimal value (cvx\_optval): +53.0049

Optimization Variables:

**lambdak\_m:**

-0.0000

0.0000

50.0822

50.3900

50.3548

50.3381

50.2259

50.2236

50.2360

50.2206

50.2364

50.1879

50.1888

50.0238

**lambdak\_M:**

-0.0000

0.0000

72.3623

72.2407

71.8930

71.8680

72.0952

72.0930

72.1116

72.1596

72.0461

72.0700

72.1913

72.4078

**lambda\_k\_m:**

0.0000

0.0000

0.0000

59.1450

59.1135

0.0000

59.1949

0.0000

59.2104

59.1435

59.1575

59.0730

59.0642

59.1011

**lambda\_k\_M:**

0.0000

0.0000

0.0000

59.2375

59.2675

0.0000

59.1946

0.0000

59.1614

59.1795

59.2278

59.2748

59.3077

59.3363

**mu\_k\_M:**

1.6801

0.0000

0.0000

0.0000

0.0000

1.1137

0.0000

0.0000

0.1678

0.0000

0.0000

0.0000

0.0000

0.0000

**mu\_k\_m:**

1.0e-007 \*

0.4701

0.4796

0.7105

0.7564

0.7475

0.4929

0.5963

0.7407

0.4955

0.5302

0.5439

0.5756

0.6129

0.6577

Number of Iterations:

17

Tolerance:

1.4901e-008

Eigenvalues of the LMI Constraint Matrix:

-0.0000

-0.0000

0.0466

0.0466

0.1263

0.1263

0.3830

0.3830

26.2984

26.2984

52.8964

52.8964

71.4363

71.4363

92.4404

92.4404

109.5231

109.5231

154.5679

154.5679

211.6356

211.6356

230.1491

230.1491

274.3969

274.3969

378.4662

378.4662

Minimum Eigenvalue of the LMI Constraint Matrix= -1.0326e-008

Rank of the Dual Matrix, A= 28

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