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>> a6_3_11_c
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警告: A non-empty cvx problem already exists in this scope.

It is being overwritten.

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> In cvxprob (line 28)
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In cvx_begin (line 41)
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In a6_3_11_c (line 7)
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Calling SDPT3 4.0: 7 variables, 3 equality constraints

For improved efficiency, SDPT3 is solving the dual problem.

num. of constraints = 3

dim. of socp var = 4, num. of socp blk = 1

dim. of linear var = 3

SDPT3: Infeasible path-following algorithms

version predcorr gam expon scale_data

NT 1 0.000 1 0

it pstep dstep pinfeas dinfeas gap prim-obj dual-obj cputime

0	0.000	0.000	1.1e+00	2.4e+00	1.0e+03	1.315066e+02	0.000000e+00	0:0:00	chol	1	1
1	0.799	0.801	2.2e-01	5.0e-01	2.5e+02	5.651837e+01	4.197401e+00	0:0:00	chol	1	1
2	0.973	0.977	6.1e-03	1.4e-02	6.6e+01	2.576591e+01	-3.421416e+01	0:0:00	chol	1	1
3	0.951	0.929	3.0e-04	2.5e-03	4.3e+00	-3.025631e+01	-3.389872e+01	0:0:00	chol	1	1
4	1.000	0.720	5.6e-07	7.8e-04	9.9e-01	-3.241617e+01	-3.321973e+01	0:0:00	chol	1	1
5	0.769	1.000	1.7e-07	3.1e-06	3.6e-01	-3.283336e+01	-3.319235e+01	0:0:00	chol	1	1
6	1.000	0.886	1.9e-08	6.6e-07	5.5e-02	-3.301505e+01	-3.306952e+01	0:0:00	chol	1	1
7	0.890	1.000	4.5e-09	3.4e-08	1.3e-02	-3.303758e+01	-3.305080e+01	0:0:00	chol	1	1
8	0.984	0.978	4.1e-10	4.6e-09	2.5e-04	-3.304487e+01	-3.304512e+01	0:0:00	chol	1	1
9	0.986	0.966	8.5e-12	2.4e-10	6.0e-06	-3.304500e+01	-3.304500e+01	0:0:00	chol	1	1
10	1.000	0.953	5.4e-13	1.3e-11	6.1e-07	-3.304500e+01	-3.304500e+01	0:0:00			

stop: max(relative gap, infeasibilities) < 1.49e-08

number of iterations = 10

primal objective value = -3.30449996e+01

dual objective value = -3.30450002e+01

gap := trace(XZ) = 6.14e-07

relative gap = 9.16e-09

actual relative gap = 9.10e-09

rel. primal infeas (scaled problem) = 5.36e-13

rel. dual " " " = 1.29e-11

rel. primal infeas (unscaled problem) = 0.00e+00

rel. dual " " " = 0.00e+00

norm(X), norm(y), norm(Z) = 1.1e+02, 8.5e+00, 1.2e+01
norm(A), norm(b), norm(C) = 3.8e+00, 5.3e+01, 6.7e+00
Total CPU time (secs) = 0.12
CPU time per iteration = 0.01
termination code = 0
DIMACS: 7.3e-13 0.0e+00 1.5e-11 0.0e+00 9.1e-09 9.2e-09

Status: Solved
Optimal value (cvx_optval): +0.0450002