Computer: Intel Xeon CPU E5-2680v3 @2.50 GHz with 12 cores, RAM=128GB

$\text{err}_1 = \frac{\|b-Ax\|}{1+\|b\|}$, $\text{err}_3 = \frac{\|c-z-A^Ty\|}{1+\|c\|}$, $\text{err}_5 = \frac{c^Tx-b^Ty}{1+|b^Ty|+|c^Tx|}$, $\text{err}_6 = \frac{x^Tz}{1+|b^Ty|+|c^Tx|}$.

Under the column "it.", the numbers in the format of "$a \mid b \mid c$" denote the total number of ADMM iterations used, the number of semismooth Newton systems solved, and the number of PSQMR steps taken to solve the semismooth Newton systems. The numbers under the column "time" is in the format of "hours:minutes:seconds".

| problem | $n \mid m; p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| 09-Aug-2017 | | | | | | |
| theta6 | 300 \| 4375; 0 | 311\| 0\| 0 \| | 6.29614807 1 | 6.29618722 1 | 1.1-14\| 9.0-7\| 3.1-6 | 06 |
| theta62 | 300 \| 13390; 0 | 174\| 0\| 0 \| | 2.93779373 1 | 2.93779445 1 | 7.8-16\| 9.0-7\| 1.2-7 | 03 |
| theta8 | 400 \| 7905; 0 | 335\| 0\| 0 \| | 7.34074288 1 | 7.34078852 1 | 2.1-15\| 9.1-7\| 3.1-6 | 09 |
| theta82 | 400 \| 23872; 0 | 192\| 0\| 0 \| | 3.40643425 1 | 3.40643477 1 | 1.1-15\| 9.4-7\| 7.6-8 | 06 |
| theta83 | 400 \| 39862; 0 | 178\| 0\| 0 \| | 2.01671035 1 | 2.01671073 1 | 7.2-16\| 9.4-7\| 9.0-8 | 05 |
| theta10 | 500 \| 12470; 0 | 347\| 0\| 0 \| | 8.31485497 1 | 8.31490690 1 | 4.8-15\| 9.9-7\| 3.1-6 | 14 |
| theta102 | 500 \| 37467; 0 | 160\| 0\| 0 \| | 3.80662517 1 | 3.80662422 1 | 1.1-16\| 9.6-7\| 1.2-7 | 07 |
| theta103 | 500 \| 62516; 0 | 159\| 0\| 0 \| | 2.23774186 1 | 2.23774210 1 | 1.4-15\| 9.6-7\| 5.2-8 | 07 |
| theta104 | 500 \| 87245; 0 | 153\| 0\| 0 \| | 1.32826067 1 | 1.32826101 1 | 7.8-16\| 9.8-7\| 1.2-7 | 07 |
| theta12 | 600 \| 17979; 0 | 365\| 0\| 0 \| | 9.20917048 1 | 9.20908059 1 | 4.4-16\| 9.9-7\| 4.9-6 | 23 |
| theta123 | 600 \| 90020; 0 | 150\| 0\| 0 \| | 2.44951466 1 | 2.44951498 1 | 4.4-16\| 9.5-7\| 6.5-8 | 11 |
| theta162 | 800 \| 127600; 0 | 144\| 0\| 0 \| | 3.67113706 1 | 3.67113740 1 | 1.1-16\| 9.9-7\| 4.5-8 | 18 |
| MANN-a27 | 378 \| 703; 0 | 372\|16\| 111 \| | 1.32762891 2 | 1.32762891 2 | 2.7-11\| 9.9-7\| 6.7-11 | 10 |
| johnson8-4-4 | 70 \| 561; 0 | 142\| 0\| 0 \| | 1.40000604 1 | 1.40000171 1 | 7.2-16\| 9.0-7\| 1.5-6 | 00 |
| johnson16-2-4 | 120 \| 1681; 0 | 102\| 0\| 0 \| | 8.00005122 0 | 7.99999656 0 | 0.6-16\| 4.2-7\| 3.2-6 | 00 |
| san200-0.7-1 | 200 \| 5971; 0 | 350\| 4\| 6 \| | 2.99999997 1 | 2.99998415 1 | 4.0-8\| 8.0-7\| 2.6-6 | 02 |
| sanr200-0.7 | 200 \| 6033; 0 | 197\| 0\| 0 \| | 2.36332829 1 | 2.36332918 1 | 1.3-15\| 9.4-7\| 1.8-7 | 01 |
| c-fat200-1 | 200 \| 18367; 0 | 227\| 0\| 0 \| | 1.19998630 1 | 1.19999724 1 | 5.1-8\| 6.3-7\| 4.4-6 | 02 |
| hamming-6-4 | 64 \| 1313; 0 | 65\| 0\| 0 \| | 3.99998581 0 | 3.99999741 0 | 3.3-16\| 4.4-7\| 1.3-6 | 00 |
| hamming-8-4 | 256 \| 11777; 0 | 119\| 0\| 0 \| | 1.60001567 1 | 1.60000100 1 | 5.6-16\| 3.2-7\| 4.4-6 | 01 |
| hamming-9-8 | 512 \| 2305; 0 | 350\| 5\| 14 \| | 2.24000009 2 | 2.23999937 2 | 4.3-8\| 4.2-7\| 1.6-7 | 14 |
| hamming-10-2 | 1024 \| 23041; 0 | 367\|17\| 45 \| | 8.53321792 1 | 8.53333887 1 | 7.5-10\| 6.4-7\| 7.0-6 | 1:08 |
| hamming-7-5-6 | 128 \| 1793; 0 | 529\| 0\| 0 \| | 3.59993814 1 | 3.60000212 1 | 2.9-8\| 5.2-7\| 8.8-6 | 02 |
| hamming-8-3-4 | 256 \| 16129; 0 | 225\| 0\| 0 \| | 2.56000091 1 | 2.56000143 1 | 6.1-16\| 6.2-7\| 9.9-8 | 03 |
| hamming-9-5-6 | 512 \| 53761; 0 | 445\| 0\| 0 \| | 5.86681676 1 | 5.86666801 1 | 1.4-13\| 1.4-7\| 1.3-5 | 23 |
| brock200-1 | 200 \| 5067; 0 | 181\| 0\| 0 \| | 2.71967107 1 | 2.71967217 1 | 6.1-16\| 9.3-7\| 2.0-7 | 01 |
| brock200-4 | 200 \| 6812; 0 | 161\| 0\| 0 \| | 2.11210684 1 | 2.11210715 1 | 0.9-15\| 9.1-7\| 7.1-8 | 01 |
| brock400-1 | 400 \| 20078; 0 | 181\| 0\| 0 \| | 3.93309068 1 | 3.93309405 1 | 1.1-15\| 9.3-7\| 4.2-7 | 05 |
| keller4 | 171 \| 5101; 0 | 343\|12\| 250 \| | 1.34660305 1 | 1.34658887 1 | 5.9-11\| 9.5-7\| 5.1-6 | 02 |
| p-hat300-1 | 300 \| 33918; 0 | 406\|13\| 561 \| | 1.00202171 1 | 1.00202068 1 | 1.1-7\| 9.1-7\| 4.9-7 | 10 |
| G43 | 1000 \| 9991; 0 | 667\|29\| 377 \| | 2.79733048 2 | 2.79736187 2 | 2.8-14\| 9.9-7\| 5.6-6 | 2:26 |
| G44 | 1000 \| 9991; 0 | 643\|29\| 373 \| | 2.79749255 2 | 2.79746017 2 | 1.8-14\| 9.5-7\| 5.8-6 | 2:22 |
| G45 | 1000 \| 9991; 0 | 701\|29\| 369 \| | 2.79321194 2 | 2.79317440 2 | 2.5-14\| 9.9-7\| 6.7-6 | 2:34 |
| G46 | 1000 \| 9991; 0 | 728\|29\| 374 \| | 2.79029716 2 | 2.79032653 2 | 6.5-15\| 9.4-7\| 5.3-6 | 2:36 |
| G47 | 1000 \| 9991; 0 | 696\|29\| 374 \| | 2.80894946 2 | 2.80891592 2 | 2.3-16\| 9.4-7\| 6.0-6 | 2:31 |
| G51 | 1000 \| 5910; 0 | 4555\|178\| 22532 \| | 3.49002017 2 | 3.49000281 2 | 6.3-7\| 9.6-7\| 2.5-6 | 26:19 |
| G52 | 1000 \| 5917; 0 | 6349\|199\| 27119 \| | 3.48387541 2 | 3.48386378 2 | 1.4-7\| 9.9-7\| 1.7-6 | 34:58 |
| G53 | 1000 \| 5915; 0 | 6247\|248\| 37358 \| | 3.48215979 2 | 3.48211850 2 | 6.5-7\| 8.8-7\| 5.9-6 | 36:28 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| G54 | 1000 \| 5917; 0 | 1807\|75\| 9022 \| | 3.41000062 2 | 3.40999977 2 | 3.2-10\| 9.9-7\| 1.2-7 | 10:12 |
| 1dc.64 | 64 \| 544; 0 | 302\| 0\| 0 \| | 1.00000630 1 | 1.00000334 1 | 8.7-7\| 9.8-7\| 1.4-6 | 01 |
| 1et.64 | 64 \| 265; 0 | 210\| 0\| 0 \| | 1.87999303 1 | 1.88000304 1 | 1.2-15\| 9.5-7\| 2.6-6 | 00 |
| 1tc.64 | 64 \| 193; 0 | 335\| 0\| 0 \| | 2.00000926 1 | 1.99999672 1 | 3.3-16\| 9.3-7\| 3.1-6 | 01 |
| 1dc.128 | 128 \| 1472; 0 | 1113\|93\| 5985 \| | 1.66783812 1 | 1.66783009 1 | 2.8-9\| 9.5-7\| 2.3-6 | 09 |
| 1et.128 | 128 \| 673; 0 | 347\| 0\| 0 \| | 2.92305764 1 | 2.92309129 1 | 2.0-15\| 8.8-7\| 5.7-6 | 01 |
| 1tc.128 | 128 \| 513; 0 | 350\|13\| 135 \| | 3.79999998 1 | 3.80000189 1 | 1.7-9\| 4.9-7\| 2.5-7 | 01 |
| 1zc.128 | 128 \| 1121; 0 | 158\| 0\| 0 \| | 2.06665114 1 | 2.06666795 1 | 4.4-16\| 5.8-7\| 4.0-6 | 00 |
| 1dc.256 | 256 \| 3840; 0 | 800\|38\| 902 \| | 2.99999998 1 | 2.99999995 1 | 2.5-9\| 1.2-8\| 5.0-9 | 09 |
| 1et.256 | 256 \| 1665; 0 | 840\|45\| 841 \| | 5.44652677 1 | 5.44649845 1 | 1.9-12\| 9.6-7\| 2.6-6 | 10 |
| 1tc.256 | 256 \| 1313; 0 | 1145\|71\| 3246 \| | 6.32411538 1 | 6.32403247 1 | 9.8-14\| 9.9-7\| 6.5-6 | 16 |
| 1zc.256 | 256 \| 2817; 0 | 251\| 0\| 0 \| | 3.73337178 1 | 3.73333014 1 | 1.3-15\| 9.1-7\| 5.5-6 | 02 |
| 1dc.512 | 512 \| 9728; 0 | 804\|33\| 1106 \| | 5.26948792 1 | 5.26951310 1 | 2.8-15\| 9.9-7\| 2.4-6 | 48 |
| 1et.512 | 512 \| 4033; 0 | 1146\|58\| 1791 \| | 1.03549049 2 | 1.03549135 2 | 9.0-7\| 8.8-7\| 4.1-7 | 1:03 |
| 1tc.512 | 512 \| 3265; 0 | 1534\|63\| 3408 \| | 1.12534719 2 | 1.12533941 2 | 1.9-14\| 9.9-7\| 3.4-6 | 1:36 |
| 2dc.512 | 512 \| 54896; 0 | 1240\|118\| 4634 \| | 1.13838003 1 | 1.13834884 1 | 1.1-14\| 9.5-7\| 1.3-5 | 1:46 |
| 1zc.512 | 512 \| 6913; 0 | 458\| 0\| 0 \| | 6.79982625 1 | 6.80000433 1 | 3.3-15\| 7.5-7\| 1.3-5 | 16 |
| 1dc.1024 | 1024 \| 24064; 0 | 1201\|44\| 1958 \| | 9.55515374 1 | 9.55511634 1 | 2.3-14\| 9.8-7\| 1.9-6 | 5:31 |
| 1et.1024 | 1024 \| 9601; 0 | 891\|34\| 1043 \| | 1.82072969 2 | 1.82071489 2 | 7.3-14\| 9.7-7\| 4.1-6 | 3:34 |
| 1tc.1024 | 1024 \| 7937; 0 | 1794\|78\| 4352 \| | 2.04205035 2 | 2.04204174 2 | 1.6-13\| 9.9-7\| 2.1-6 | 9:02 |
| 1zc.1024 | 1024 \| 16641; 0 | 498\|19\| 113 \| | 1.27999217 2 | 1.28000123 2 | 9.2-12\| 9.0-7\| 3.5-6 | 1:37 |
| 2dc.1024 | 1024 \| 169163; 0 | 985\|90\| 3767 \| | 1.77107756 1 | 1.77100028 1 | 9.8-11\| 9.1-7\| 2.1-5 | 7:08 |
| 1dc.2048 | 2048 \| 58368; 0 | 3037\|69\| 5467 \| | 1.74260110 2 | 1.74257459 2 | 5.0-14\| 9.9-7\| 7.6-6 | 1:07:25 |
| 1et.2048 | 2048 \| 22529; 0 | 1562\|60\| 2725 \| | 3.38171025 2 | 3.38165016 2 | 1.3-12\| 9.9-7\| 8.9-6 | 30:10 |
| 1tc.2048 | 2048 \| 18945; 0 | 2022\|65\| 3076 \| | 3.70491136 2 | 3.70488690 2 | 4.5-13\| 9.9-7\| 3.3-6 | 39:08 |
| 1zc.2048 | 2048 \| 39425; 0 | 350\|19\| 327 \| | 2.37399999 2 | 2.37399964 2 | 1.7-9\| 4.6-7\| 7.5-8 | 6:38 |
| 2dc.2048 | 2048 \| 504452; 0 | 1132\|88\| 4380 \| | 2.87896320 1 | 2.87867938 1 | 6.1-7\| 8.4-7\| 4.8-5 | 40:50 |
| fap01 | 52 \| 52; 0 | 478\|10\| 16 \| | 3.28895998-2 | 3.28836141-2 | 1.8-12\| 1.2-7\| 5.6-6 | 01 |
| fap02 | 61 \| 61; 0 | 794\|40\| 56 \| | 6.86727164-4 | 6.92998822-4 | 1.7-7\| 9.9-7\| 6.3-6 | 02 |
| fap03 | 65 \| 65; 0 | 508\|26\| 42 \| | 4.93830200-2 | 4.93691929-2 | 1.4-7\| 4.0-7\| 1.3-5 | 01 |
| fap04 | 81 \| 81; 0 | 575\|24\| 43 \| | 1.74844356-1 | 1.74827051-1 | 1.5-15\| 1.5-7\| 1.3-5 | 02 |
| fap05 | 84 \| 84; 0 | 880\|35\| 60 \| | 3.08334835-1 | 3.08328714-1 | 3.1-10\| 4.9-7\| 3.8-6 | 03 |
| fap06 | 93 \| 93; 0 | 556\|18\| 36 \| | 4.59356041-1 | 4.59326404-1 | 7.1-16\| 3.7-7\| 1.5-5 | 03 |
| fap07 | 98 \| 98; 0 | 660\|24\| 41 \| | 2.11769307 0 | 2.11770124 0 | 3.6-10\| 4.3-7\| 1.6-6 | 02 |
| fap08 | 120 \| 120; 0 | 515\|22\| 44 \| | 2.43628077 0 | 2.43628207 0 | 1.5-12\| 9.9-7\| 2.2-7 | 02 |
| fap09 | 174 \| 174; 0 | 461\|12\| 22 \| | 1.07978575 1 | 1.07977950 1 | 1.1-10\| 7.0-7\| 2.8-6 | 03 |
| fap10 | 183 \| 183; 0 | 903\|40\| 81 \| | 9.65169337-3 | 9.71492537-3 | 6.5-8\| 7.5-7\| 6.2-5 | 07 |
| fap11 | 252 \| 252; 0 | 1142\|60\| 120 \| | 2.98564486-2 | 2.98362021-2 | 2.5-7\| 6.7-7\| 1.9-5 | 14 |
| fap12 | 369 \| 369; 0 | 1409\|80\| 170 \| | 2.73315645-1 | 2.73430682-1 | 7.0-8\| 9.9-7\| 7.4-5 | 35 |
| fap25 | 2118 \| 2118; 0 | 2300\|138\| 479 \| | 1.28814352 1 | 1.28834409 1 | 1.8-9\| 9.5-7\| 7.5-5 | 42:17 |
| fap36 | 4110 \| 4110; 0 | 1739\|100\| 275 \| | 6.98350123 1 | 6.98622882 1 | 2.4-7\| 1.2-6\| **1.9-4** | 2:46:43 |
| bur26a | 676 \| 1051; 0 | 8819\|330\| 18413 \| | 5.42653053 6 | 5.42667990 6 | 1.0-6\| 9.9-7\| 1.4-5 | 18:49 |
| bur26b | 676 \| 1051; 0 | 6696\|246\| 13511 \| | 3.81757589 6 | 3.81766350 6 | 7.9-7\| 9.9-7\| 1.1-5 | 13:32 |
| bur26c | 676 \| 1051; 0 | 17001\|462\| 26475 \| | 5.42688935 6 | 5.42708408 6 | 4.7-7\| 9.9-7\| 1.8-5 | 30:02 |
| bur26d | 676 \| 1051; 0 | 10426\|365\| 20893 \| | 3.82088902 6 | 3.82097869 6 | 8.2-7\| 9.9-7\| 1.2-5 | 19:23 |
| bur26e | 676 \| 1051; 0 | 10394\|391\| 21701 \| | 5.38698637 6 | 5.38713185 6 | 7.3-7\| 8.6-7\| 1.4-5 | 20:24 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| bur26f | 676 \| 1051; 0 | 8229\|238\| 13512 \| | 3.78212423 6 | 3.78219479 6 | 1.0-6\| 9.9-7\| 9.3-6 | 14:54 |
| bur26g | 676 \| 1051; 0 | 8218\|336\| 19323 \| | 1.01172548 7 | 1.01175480 7 | 8.8-7\| 8.9-7\| 1.4-5 | 14:11 |
| bur26h | 676 \| 1051; 0 | 7655\|367\| 22384 \| | 7.09871319 6 | 7.09879357 6 | 7.0-7\| 5.2-7\| 5.7-6 | 14:25 |
| chr12a | 144 \| 232; 0 | 1691\|68\| 2104 \| | 9.55283940 3 | 9.55135543 3 | 1.1-12\| 1.7-7\| 7.8-5 | 10 |
| chr12b | 144 \| 232; 0 | 1740\|57\| 2130 \| | 9.74203569 3 | 9.74209858 3 | 1.8-9\| 1.1-8\| 3.2-6 | 09 |
| chr12c | 144 \| 232; 0 | 3350\|227\| 12094 \| | 1.11560002 4 | 1.11565888 4 | 3.7-9\| 2.3-7\| 2.6-5 | 22 |
| chr15a | 225 \| 358; 0 | 5450\|629\| 37728 \| | 9.89599849 3 | 9.89666265 3 | 9.9-10\| 3.8-8\| 3.4-5 | 1:32 |
| chr15b | 225 \| 358; 0 | 2141\|129\| 6333 \| | 7.98998983 3 | 7.99001155 3 | 3.5-9\| 1.8-8\| 1.4-6 | 27 |
| chr15c | 225 \| 358; 0 | 1550\|114\| 4964 \| | 9.50399976 3 | 9.50405868 3 | 3.4-9\| 1.6-8\| 3.1-6 | 20 |
| chr18a | 324 \| 511; 0 | 7130\|343\| 22421 \| | 1.10980231 4 | 1.10957230 4 | 1.5-7\| 3.8-7\| **1.0-4** | 2:29 |
| chr18b | 324 \| 511; 0 | 1038\|51\| 1605 \| | 1.53398679 3 | 1.53400725 3 | 3.0-8\| 9.9-7\| 6.7-6 | 22 |
| chr20a | 400 \| 628; 0 | 6500\|311\| 18851 \| | 2.19199794 3 | 2.19244477 3 | 7.3-8\| 9.9-7\| **1.0-4** | 3:44 |
| chr20b | 400 \| 628; 0 | 3299\|123\| 6751 \| | 2.29963229 3 | 2.29648142 3 | 1.1-9\| 8.9-7\| **6.9-4** | 1:53 |
| chr20c | 400 \| 628; 0 | 6295\|187\| 11135 \| | 1.41465933 4 | 1.41416471 4 | 2.8-8\| 9.0-7\| **1.7-4** | 3:03 |
| chr22a | 484 \| 757; 0 | 6536\|238\| 13170 \| | 6.15599996 3 | 6.15598796 3 | 5.8-9\| 6.7-9\| 9.7-7 | 5:15 |
| chr22b | 484 \| 757; 0 | 5695\|210\| 11669 \| | 6.19400408 3 | 6.19394744 3 | 1.6-8\| 8.0-8\| 4.6-6 | 4:46 |
| chr25a | 625 \| 973; 0 | 4500\|186\| 10122 \| | 3.79598898 3 | 3.79607365 3 | 5.4-10\| 2.3-8\| 1.1-5 | 7:25 |
| els19 | 361 \| 568; 0 | 4169\|137\| 7068 \| | 1.72140572 7 | 1.72211853 7 | 5.5-13\| 9.4-7\| **2.1-4** | 1:33 |
| esc16a | 256 \| 406; 0 | 1457\|87\| 2966 \| | 6.32745616 1 | 6.32823442 1 | 9.5-7\| 9.2-7\| 6.1-5 | 22 |
| esc16b | 256 \| 406; 0 | 2103\|146\| 4889 \| | 2.89968778 2 | 2.89986327 2 | 8.6-7\| 9.9-7\| 3.0-5 | 30 |
| esc16c | 256 \| 406; 0 | 3177\|249\| 10333 \| | 1.53966750 2 | 1.53984765 2 | 6.4-7\| 9.9-7\| 5.8-5 | 53 |
| esc16d | 256 \| 406; 0 | 258\| 0\| 0 \| | 1.29999714 1 | 1.30000146 1 | 2.1-15\| 9.9-7\| 1.6-6 | 02 |
| esc16e | 256 \| 406; 0 | 274\| 0\| 0 \| | 2.63367372 1 | 2.63368202 1 | 2.4-15\| 9.5-7\| 1.5-6 | 02 |
| esc16g | 256 \| 406; 0 | 396\|11\| 119 \| | 2.47388201 1 | 2.47403317 1 | 2.1-7\| 8.6-7\| 3.0-5 | 04 |
| esc16h | 256 \| 406; 0 | 975\|44\| 1307 \| | 9.76187989 2 | 9.76210914 2 | 3.0-14\| 9.9-7\| 1.2-5 | 12 |
| esc16i | 256 \| 406; 0 | 635\|20\| 118 \| | 1.13748551 1 | 1.13749606 1 | 1.8-15\| 9.9-7\| 4.4-6 | 07 |
| esc16j | 256 \| 406; 0 | 400\|12\| 145 \| | 7.79384361 0 | 7.79436406 0 | 9.4-7\| 9.3-7\| 3.1-5 | 05 |
| esc32a | 1024 \| 1582; 0 | 1411\|82\| 2349 \| | 1.03321188 2 | 1.03320691 2 | 8.5-7\| 9.9-7\| 2.4-6 | 7:02 |
| esc32b | 1024 \| 1582; 0 | 1777\|58\| 2687 \| | 1.31837838 2 | 1.31869019 2 | 8.6-7\| 9.9-7\| **1.2-4** | 8:34 |
| esc32c | 1024 \| 1582; 0 | 2213\|100\| 4564 \| | 6.15161334 2 | 6.15174353 2 | 8.3-7\| 9.6-7\| 1.1-5 | 9:46 |
| esc32d | 1024 \| 1582; 0 | 459\|10\| 69 \| | 1.90227376 2 | 1.90227158 2 | 4.6-7\| 9.6-7\| 5.7-7 | 1:27 |
| esc32e | 1024 \| 1582; 0 | 828\|52\| 479 \| | 1.90008843 0 | 1.89990472 0 | 5.2-11\| 8.7-7\| 3.8-5 | 3:06 |
| esc32g | 1024 \| 1582; 0 | 369\|13\| 53 \| | 5.83359319 0 | 5.83328430 0 | 1.8-10\| 7.9-7\| 2.4-5 | 1:20 |
| esc32h | 1024 \| 1582; 0 | 5449\|241\| 11093 \| | 4.24332032 2 | 4.24377994 2 | 9.9-7\| 9.9-7\| 5.4-5 | 24:45 |
| had12 | 144 \| 232; 0 | 1628\|104\| 5460 \| | 1.65197765 3 | 1.65197413 3 | 9.4-7\| 4.6-7\| 1.1-6 | 11 |
| had14 | 196 \| 313; 0 | 2837\|372\| 26795 \| | 2.72396012 3 | 2.72395649 3 | 4.8-7\| 9.9-7\| 6.7-7 | 45 |
| had16 | 256 \| 406; 0 | 2803\|221\| 11501 \| | 3.71999999 3 | 3.71999903 3 | 3.8-9\| 5.3-8\| 1.3-7 | 48 |
| had18 | 324 \| 511; 0 | 9614\|440\| 28632 \| | 5.35780912 3 | 5.35806671 3 | 3.4-7\| 9.9-7\| 2.4-5 | 3:38 |
| had20 | 400 \| 628; 0 | 5426\|324\| 23092 \| | 6.92182291 3 | 6.92205340 3 | 6.5-7\| 9.3-7\| 1.7-5 | 4:08 |
| kra30a | 900 \| 1393; 0 | 3213\|188\| 13069 \| | 8.67831489 4 | 8.68107200 4 | 8.9-7\| 9.2-7\| **1.6-4** | 15:08 |
| kra30b | 900 \| 1393; 0 | 2447\|111\| 6715 \| | 8.78143300 4 | 8.78362798 4 | 2.4-9\| 9.9-7\| **1.2-4** | 9:49 |
| kra32 | 1024 \| 1582; 0 | 3307\|148\| 9805 \| | 8.57267705 4 | 8.57521549 4 | 2.7-7\| 9.9-7\| **1.5-4** | 19:22 |
| lipa20a | 400 \| 628; 0 | 800\|48\| 1258 \| | 3.68300000 3 | 3.68299955 3 | 1.7-10\| 5.6-9\| 6.1-8 | 27 |
| lipa20b | 400 \| 628; 0 | 889\|41\| 1304 \| | 2.70771370 4 | 2.70745560 4 | 3.4-7\| 8.0-7\| 4.8-5 | 28 |
| lipa30a | 900 \| 1393; 0 | 2510\|126\| 5520 \| | 1.31780000 4 | 1.31780110 4 | 5.2-11\| 1.0-7\| 4.2-7 | 8:20 |
| lipa30b | 900 \| 1393; 0 | 451\|28\| 831 \| | 1.51426000 5 | 1.51425880 5 | 2.8-9\| 2.0-8\| 3.9-7 | 1:43 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| lipa40a | 1600 \| 2458; 0 | 2800\|140\| 6973 \| | 3.15380004 4 | 3.15380086 4 | 3.7-9\| 8.5-8\| 1.3-7 | 39:26 |
| lipa40b | 1600 \| 2458; 0 | 1277\|101\| 3713 \| | 4.76645598 5 | 4.76539155 5 | 1.1-12\| 7.4-7\| **1.1-4** | 22:52 |
| nug12 | 144 \| 232; 0 | 1197\|62\| 2918 \| | 5.67838678 2 | 5.67913924 2 | 9.0-7\| 9.7-7\| 6.6-5 | 08 |
| nug14 | 196 \| 313; 0 | 2817\|211\| 11079 \| | 1.00993332 3 | 1.01003199 3 | 9.9-7\| 9.9-7\| 4.9-5 | 31 |
| nug15 | 225 \| 358; 0 | 2444\|205\| 11178 \| | 1.14031356 3 | 1.14043971 3 | 7.3-7\| 9.9-7\| 5.5-5 | 36 |
| nug16a | 256 \| 406; 0 | 4181\|299\| 15795 \| | 1.59900244 3 | 1.59915973 3 | 7.2-7\| 9.7-7\| 4.9-5 | 1:13 |
| nug16b | 256 \| 406; 0 | 1343\|86\| 4170 \| | 1.21784633 3 | 1.21805554 3 | 1.0-6\| 8.5-7\| 8.6-5 | 21 |
| nug17 | 289 \| 457; 0 | 2421\|210\| 12047 \| | 1.70676280 3 | 1.70694340 3 | 9.6-7\| 9.9-7\| 5.3-5 | 57 |
| nug18 | 324 \| 511; 0 | 2298\|221\| 16452 \| | 1.89297198 3 | 1.89326001 3 | 3.9-7\| 9.9-7\| 7.6-5 | 1:16 |
| nug20 | 400 \| 628; 0 | 1870\|153\| 11066 \| | 2.50557686 3 | 2.50596297 3 | 9.0-7\| 9.3-7\| 7.7-5 | 1:42 |
| nug21 | 441 \| 691; 0 | 2644\|123\| 6816 \| | 2.38130704 3 | 2.38163033 3 | 9.9-7\| 9.9-7\| 6.8-5 | 2:02 |
| nug22 | 484 \| 757; 0 | 2849\|93\| 4777 \| | 3.52718483 3 | 3.52795907 3 | 9.0-7\| 7.8-7\| **1.1-4** | 2:15 |
| nug24 | 576 \| 898; 0 | 2001\|153\| 11473 \| | 3.40012983 3 | 3.40060917 3 | 2.0-7\| 9.4-7\| 7.0-5 | 4:24 |
| nug25 | 625 \| 973; 0 | 1997\|88\| 4643 \| | 3.62498611 3 | 3.62544069 3 | 3.6-7\| 9.7-7\| 6.3-5 | 3:24 |
| nug27 | 729 \| 1132; 0 | 4177\|215\| 15049 \| | 5.12845097 3 | 5.12906025 3 | 6.7-7\| 7.9-7\| 5.9-5 | 11:38 |
| nug28 | 784 \| 1216; 0 | 3344\|136\| 8881 \| | 5.02466278 3 | 5.02520563 3 | 4.0-7\| 9.8-7\| 5.4-5 | 9:35 |
| nug30 | 900 \| 1393; 0 | 2373\|100\| 5582 \| | 5.94840911 3 | 5.94896559 3 | 9.0-7\| 9.6-7\| 4.7-5 | 9:01 |
| rou12 | 144 \| 232; 0 | 5300\|348\| 16689 \| | 2.35528000 5 | 2.35535788 5 | 4.6-8\| 8.7-7\| 1.7-5 | 36 |
| rou15 | 225 \| 358; 0 | 2103\|134\| 6827 \| | 3.50170088 5 | 3.50194357 5 | 3.2-7\| 9.3-7\| 3.5-5 | 29 |
| rou20 | 400 \| 628; 0 | 1190\|70\| 3428 \| | 6.95097068 5 | 6.95140021 5 | 7.7-7\| 9.3-7\| 3.1-5 | 49 |
| scr12 | 144 \| 232; 0 | 694\|20\| 577 \| | 3.14100168 4 | 3.14100286 4 | 9.6-7\| 5.2-7\| 1.9-7 | 04 |
| scr15 | 225 \| 358; 0 | 690\|43\| 1185 \| | 5.11399840 4 | 5.11398952 4 | 1.5-9\| 2.9-7\| 8.7-7 | 07 |
| scr20 | 400 \| 628; 0 | 3137\|135\| 6935 \| | 1.06759166 5 | 1.06782867 5 | 3.5-7\| 9.9-7\| **1.1-4** | 1:54 |
| ste36a | 1296 \| 1996; 0 | 4395\|133\| 7827 \| | 9.25462672 3 | 9.25699266 3 | 6.6-7\| 8.9-7\| **1.3-4** | 34:16 |
| ste36b | 1296 \| 1996; 0 | 8347\|297\| 18519 \| | 1.56587696 4 | 1.56657748 4 | 1.6-12\| 9.9-7\| **2.2-4** | 1:09:27 |
| ste36c | 1296 \| 1996; 0 | 6051\|196\| 12209 \| | 8.13213580 6 | 8.13380660 6 | 3.4-7\| 9.9-7\| **1.0-4** | 48:18 |
| tai12a | 144 \| 232; 0 | 601\|29\| 1102 \| | 2.24416000 5 | 2.24416007 5 | 1.9-9\| 3.1-8\| 1.6-8 | 03 |
| tai12b | 144 \| 232; 0 | 4385\|227\| 7481 \| | 3.94649262 7 | 3.94654014 7 | 5.3-8\| 2.0-7\| 6.0-6 | 24 |
| tai15a | 225 \| 358; 0 | 1658\|102\| 4985 \| | 3.77059155 5 | 3.77080867 5 | 4.0-7\| 8.2-7\| 2.9-5 | 22 |
| tai15b | 225 \| 358; 0 | 5597\|350\| 15525 \| | 5.18227175 7 | 5.18401534 7 | 7.8-7\| 9.9-7\| **1.7-4** | 1:11 |
| tai17a | 289 \| 457; 0 | 1576\|99\| 4880 \| | 4.76475472 5 | 4.76501931 5 | 9.1-7\| 8.5-7\| 2.8-5 | 33 |
| tai20a | 400 \| 628; 0 | 1325\|66\| 3124 \| | 6.71602906 5 | 6.71640717 5 | 9.4-7\| 9.9-7\| 2.8-5 | 52 |
| tai20b | 400 \| 628; 0 | 7800\|297\| 14854 \| | 1.22455279 8 | 1.22456826 8 | 4.2-10\| 6.7-8\| 6.3-6 | 4:10 |
| tai25a | 625 \| 973; 0 | 1422\|72\| 3332 \| | 1.11339719 6 | 1.11519180 6 | 9.9-7\| 9.7-7\| **8.1-4** | 2:37 |
| tai25b | 625 \| 973; 0 | 12493\|535\| 30059 \| | 3.37789592 8 | 3.37922583 8 | 7.5-7\| 9.9-7\| **2.0-4** | 20:29 |
| tai30a | 900 \| 1393; 0 | 2243\|121\| 6441 \| | 1.70677369 6 | 1.70682902 6 | 3.8-7\| 9.4-7\| 1.6-5 | 10:08 |
| tai30b | 900 \| 1393; 0 | 11048\|471\| 26473 \| | 5.99014930 8 | 5.99146812 8 | 6.5-7\| 9.9-7\| **1.1-4** | 39:47 |
| tai35a | 1225 \| 1888; 0 | 2448\|115\| 6110 \| | 2.21653791 6 | 2.21659879 6 | 2.9-7\| 8.6-7\| 1.4-5 | 22:52 |
| tai35b | 1225 \| 1888; 0 | 8601\|338\| 20518 \| | 2.69634131 8 | 2.69704737 8 | 5.6-7\| 9.5-7\| **1.3-4** | 1:05:09 |
| tai40a | 1600 \| 2458; 0 | 2756\|118\| 6234 \| | 2.84317716 6 | 2.84325234 6 | 2.4-7\| 9.9-7\| 1.3-5 | 42:36 |
| tai40b | 1600 \| 2458; 0 | 6438\|253\| 14052 \| | 6.09049390 8 | 6.09164956 8 | 5.9-7\| 9.9-7\| 9.5-5 | 1:25:30 |
| tho30 | 900 \| 1393; 0 | 2712\|122\| 7516 \| | 1.43535303 5 | 1.43556621 5 | 6.3-7\| 9.8-7\| 7.4-5 | 9:57 |
| tho40 | 1600 \| 2458; 0 | 2447\|113\| 6901 \| | 2.26465627 5 | 2.26494833 5 | 1.0-6\| 9.9-7\| 6.4-5 | 38:38 |
| be100.1 | 101 \| 101; 0 | 1135\|46\| 710 \| | -2.00213412 4 | -2.00213059 4 | 6.1-11\| 9.8-7\| 8.8-7 | 04 |
| be100.2 | 101 \| 101; 0 | 1058\|55\| 767 \| | -1.79887229 4 | -1.79887856 4 | 7.0-7\| 9.9-7\| 1.7-6 | 04 |
| be100.3 | 101 \| 101; 0 | 1301\|46\| 617 \| | -1.82310865 4 | -1.82310943 4 | 7.1-7\| 5.5-7\| 2.1-7 | 04 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| be100.4 | 101 \| 101; 0 | 1250\|37\| 515 \| | -1.98418013 4 | -1.98418016 4 | 2.5-9\| 4.6-7\| 7.3-9 | 05 |
| be100.5 | 101 \| 101; 0 | 1101\|35\| 434 \| | -1.68886972 4 | -1.68887176 4 | 5.8-10\| 9.5-7\| 6.0-7 | 04 |
| be100.6 | 101 \| 101; 0 | 1319\|44\| 578 \| | -1.81482257 4 | -1.81481976 4 | 4.4-14\| 9.9-7\| 7.7-7 | 04 |
| be100.7 | 101 \| 101; 0 | 1250\|37\| 550 \| | -1.97008454 4 | -1.97008237 4 | 1.2-9\| 3.2-7\| 5.5-7 | 04 |
| be100.8 | 101 \| 101; 0 | 993\|34\| 434 \| | -1.99464000 4 | -1.99463590 4 | 2.5-11\| 8.7-7\| 1.0-6 | 03 |
| be100.9 | 101 \| 101; 0 | 1100\|59\| 690 \| | -1.42633657 4 | -1.42633706 4 | 2.4-8\| 4.0-7\| 1.7-7 | 04 |
| be100.10 | 101 \| 101; 0 | 820\|39\| 482 \| | -1.64084954 4 | -1.64084768 4 | 6.4-8\| 9.2-7\| 5.7-7 | 03 |
| be120.3.1 | 121 \| 121; 0 | 1381\|44\| 657 \| | -1.38035767 4 | -1.38035518 4 | 2.7-7\| 9.9-7\| 9.0-7 | 05 |
| be120.3.2 | 121 \| 121; 0 | 1279\|46\| 677 \| | -1.36266630 4 | -1.36266935 4 | 7.9-7\| 9.9-7\| 1.1-6 | 05 |
| be120.3.3 | 121 \| 121; 0 | 1334\|44\| 611 \| | -1.29878796 4 | -1.29878266 4 | 7.6-8\| 8.2-7\| 2.0-6 | 06 |
| be120.3.4 | 121 \| 121; 0 | 1208\|44\| 602 \| | -1.45112338 4 | -1.45112515 4 | 6.6-15\| 9.9-7\| 6.1-7 | 05 |
| be120.3.5 | 121 \| 121; 0 | 1250\|43\| 582 \| | -1.19918829 4 | -1.19918845 4 | 1.0-7\| 9.7-7\| 6.8-8 | 05 |
| be120.3.6 | 121 \| 121; 0 | 1550\|59\| 988 \| | -1.34320547 4 | -1.34320462 4 | 9.2-10\| 1.8-7\| 3.2-7 | 07 |
| be120.3.7 | 121 \| 121; 0 | 1903\|69\| 986 \| | -1.45641025 4 | -1.45641035 4 | 9.2-15\| 9.0-7\| 3.4-8 | 08 |
| be120.3.8 | 121 \| 121; 0 | 1550\|56\| 871 \| | -1.53030080 4 | -1.53029871 4 | 2.7-9\| 6.3-7\| 6.8-7 | 06 |
| be120.3.9 | 121 \| 121; 0 | 1809\|58\| 718 \| | -1.12413223 4 | -1.12413223 4 | 2.0-15\| 9.9-7\| 6.6-10 | 07 |
| be120.3.10 | 121 \| 121; 0 | 1250\|37\| 503 \| | -1.29308549 4 | -1.29308321 4 | 9.5-9\| 8.2-7\| 8.8-7 | 05 |
| be120.8.1 | 121 \| 121; 0 | 1132\|45\| 556 \| | -2.01939646 4 | -2.01939258 4 | 1.4-10\| 9.4-7\| 9.6-7 | 04 |
| be120.8.2 | 121 \| 121; 0 | 1583\|62\| 793 \| | -2.00741423 4 | -2.00741149 4 | 3.7-11\| 9.0-7\| 6.8-7 | 06 |
| be120.8.3 | 121 \| 121; 0 | 1152\|35\| 428 \| | -2.05059027 4 | -2.05058546 4 | 1.9-9\| 9.3-7\| 1.2-6 | 04 |
| be120.8.4 | 121 \| 121; 0 | 1146\|73\| 1121 \| | -2.17798431 4 | -2.17797863 4 | 2.8-7\| 8.4-7\| 1.3-6 | 05 |
| be120.8.5 | 121 \| 121; 0 | 1260\|71\| 1030 \| | -2.13162835 4 | -2.13163697 4 | 2.3-9\| 9.0-7\| 2.0-6 | 06 |
| be120.8.6 | 121 \| 121; 0 | 1244\|33\| 424 \| | -1.96769861 4 | -1.96769374 4 | 9.2-7\| 6.2-7\| 1.2-6 | 05 |
| be120.8.7 | 121 \| 121; 0 | 1100\|49\| 694 \| | -2.37323671 4 | -2.37323472 4 | 1.4-9\| 6.3-7\| 4.2-7 | 04 |
| be120.8.8 | 121 \| 121; 0 | 1148\|33\| 420 \| | -2.12047417 4 | -2.12047422 4 | 2.4-8\| 9.9-7\| 1.0-8 | 04 |
| be120.8.9 | 121 \| 121; 0 | 1107\|35\| 405 \| | -1.92844387 4 | -1.92844283 4 | 9.9-8\| 9.9-7\| 2.7-7 | 04 |
| be120.8.10 | 121 \| 121; 0 | 1100\|69\| 1041 \| | -2.00239910 4 | -2.00239659 4 | 3.3-8\| 8.2-7\| 6.3-7 | 05 |
| be150.3.1 | 151 \| 151; 0 | 1518\|66\| 1111 \| | -1.98491334 4 | -1.98491189 4 | 5.3-8\| 4.3-7\| 3.7-7 | 09 |
| be150.3.2 | 151 \| 151; 0 | 1340\|84\| 1358 \| | -1.88649061 4 | -1.88649117 4 | 9.5-7\| 7.8-7\| 1.5-7 | 08 |
| be150.3.3 | 151 \| 151; 0 | 1283\|44\| 780 \| | -1.80437036 4 | -1.80437047 4 | 8.1-11\| 9.9-7\| 3.0-8 | 07 |
| be150.3.4 | 151 \| 151; 0 | 1338\|87\| 1562 \| | -2.06526915 4 | -2.06527741 4 | 5.8-7\| 9.9-7\| 2.0-6 | 08 |
| be150.3.5 | 151 \| 151; 0 | 1359\|49\| 681 \| | -1.77686242 4 | -1.77686518 4 | 1.2-14\| 9.5-7\| 7.7-7 | 07 |
| be150.3.6 | 151 \| 151; 0 | 1260\|61\| 818 \| | -1.80506832 4 | -1.80506379 4 | 8.8-8\| 9.5-7\| 1.3-6 | 07 |
| be150.3.7 | 151 \| 151; 0 | 1508\|54\| 822 \| | -1.91012743 4 | -1.91012529 4 | 9.4-7\| 9.6-7\| 5.6-7 | 08 |
| be150.3.8 | 151 \| 151; 0 | 1400\|59\| 868 \| | -1.96980273 4 | -1.96979868 4 | 2.9-9\| 9.2-7\| 1.0-6 | 08 |
| be150.3.9 | 151 \| 151; 0 | 1171\|35\| 400 \| | -1.41033517 4 | -1.41033805 4 | 7.0-15\| 9.9-7\| 1.0-6 | 06 |
| be150.3.10 | 151 \| 151; 0 | 1553\|55\| 746 \| | -1.92309758 4 | -1.92309087 4 | 7.5-7\| 9.3-7\| 1.7-6 | 08 |
| be150.8.1 | 151 \| 151; 0 | 1365\|68\| 963 \| | -2.91437405 4 | -2.91437506 4 | 7.8-7\| 9.8-7\| 1.7-7 | 08 |
| be150.8.2 | 151 \| 151; 0 | 1375\|47\| 618 \| | -2.88210351 4 | -2.88211122 4 | 6.8-7\| 7.8-7\| 1.3-6 | 07 |
| be150.8.3 | 151 \| 151; 0 | 1400\|56\| 824 \| | -3.10603065 4 | -3.10603240 4 | 7.5-8\| 9.2-7\| 2.8-7 | 08 |
| be150.8.4 | 151 \| 151; 0 | 1400\|52\| 800 \| | -2.87292805 4 | -2.87292621 4 | 2.4-8\| 2.9-7\| 3.2-7 | 08 |
| be150.8.5 | 151 \| 151; 0 | 1306\|72\| 1085 \| | -2.94821571 4 | -2.94820466 4 | 8.7-7\| 8.9-7\| 1.9-6 | 08 |
| be150.8.6 | 151 \| 151; 0 | 1367\|48\| 614 \| | -3.14371820 4 | -3.14370994 4 | 7.8-7\| 9.2-7\| 1.3-6 | 07 |
| be150.8.7 | 151 \| 151; 0 | 1539\|58\| 910 \| | -3.32521462 4 | -3.32520523 4 | 5.4-15\| 9.8-7\| 1.4-6 | 08 |
| be150.8.8 | 151 \| 151; 0 | 1342\|63\| 919 \| | -3.15999428 4 | -3.15998759 4 | 7.9-7\| 6.3-7\| 1.1-6 | 08 |
| be150.8.9 | 151 \| 151; 0 | 1348\|80\| 1120 \| | -2.71107431 4 | -2.71107423 4 | 1.0-14\| 9.5-7\| 1.5-8 | 08 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| be150.8.10 | 151 \| 151; 0 | 1173\|71\| 1066 \| | -3.00479461 4 | -3.00478938 4 | 3.1-7\| 9.9-7\| 8.7-7 | 07 |
| be200.3.1 | 201 \| 201; 0 | 1321\|58\| 858 \| | -2.77161426 4 | -2.77160637 4 | 7.4-7\| 9.1-7\| 1.4-6 | 11 |
| be200.3.2 | 201 \| 201; 0 | 1381\|81\| 1248 \| | -2.67608577 4 | -2.67608676 4 | 6.9-7\| 5.4-7\| 1.9-7 | 13 |
| be200.3.3 | 201 \| 201; 0 | 1560\|101\| 1637 \| | -2.94786376 4 | -2.94786546 4 | 1.9-9\| 4.0-7\| 2.9-7 | 15 |
| be200.3.4 | 201 \| 201; 0 | 1547\|97\| 1618 \| | -2.91062439 4 | -2.91063274 4 | 1.8-7\| 9.9-7\| 1.4-6 | 14 |
| be200.3.5 | 201 \| 201; 0 | 1560\|106\| 1904 \| | -2.80729771 4 | -2.80729377 4 | 8.9-10\| 3.8-7\| 7.0-7 | 15 |
| be200.3.6 | 201 \| 201; 0 | 1466\|85\| 1357 \| | -2.79283589 4 | -2.79283303 4 | 6.5-15\| 9.9-7\| 5.1-7 | 13 |
| be200.3.7 | 201 \| 201; 0 | 1663\|78\| 1461 \| | -3.16204312 4 | -3.16203222 4 | 2.9-7\| 8.2-7\| 1.7-6 | 14 |
| be200.3.8 | 201 \| 201; 0 | 1550\|71\| 1133 \| | -2.92442350 4 | -2.92442177 4 | 1.4-9\| 7.8-7\| 3.0-7 | 13 |
| be200.3.9 | 201 \| 201; 0 | 1616\|111\| 1686 \| | -2.64370076 4 | -2.64370206 4 | 5.9-14\| 7.5-7\| 2.5-7 | 15 |
| be200.3.10 | 201 \| 201; 0 | 1550\|72\| 1155 \| | -2.57606731 4 | -2.57606643 4 | 2.8-8\| 3.2-7\| 1.7-7 | 13 |
| be200.8.1 | 201 \| 201; 0 | 1710\|120\| 1954 \| | -5.08694608 4 | -5.08694351 4 | 8.4-10\| 4.8-7\| 2.5-7 | 16 |
| be200.8.2 | 201 \| 201; 0 | 1464\|60\| 862 \| | -4.43361638 4 | -4.43361789 4 | 1.0-6\| 8.3-7\| 1.7-7 | 12 |
| be200.8.3 | 201 \| 201; 0 | 1360\|98\| 1506 \| | -4.62538823 4 | -4.62538851 4 | 9.5-7\| 4.6-7\| 3.1-8 | 13 |
| be200.8.4 | 201 \| 201; 0 | 1260\|84\| 1404 \| | -4.66212348 4 | -4.66212088 4 | 3.9-8\| 7.4-7\| 2.8-7 | 11 |
| be200.8.5 | 201 \| 201; 0 | 1350\|85\| 1321 \| | -4.42711376 4 | -4.42711831 4 | 4.4-7\| 1.8-7\| 5.1-7 | 13 |
| be200.8.6 | 201 \| 201; 0 | 1700\|79\| 1293 \| | -5.12188877 4 | -5.12187375 4 | 4.4-9\| 4.6-7\| 1.5-6 | 15 |
| be200.8.7 | 201 \| 201; 0 | 1550\|78\| 1157 \| | -4.93528183 4 | -4.93528601 4 | 1.2-9\| 6.3-7\| 4.2-7 | 13 |
| be200.8.8 | 201 \| 201; 0 | 1388\|57\| 836 \| | -4.76892755 4 | -4.76891819 4 | 9.3-7\| 9.7-7\| 9.8-7 | 11 |
| be200.8.9 | 201 \| 201; 0 | 1550\|70\| 1087 \| | -4.54955036 4 | -4.54956367 4 | 1.7-9\| 8.9-7\| 1.5-6 | 13 |
| be200.8.10 | 201 \| 201; 0 | 1463\|63\| 901 \| | -4.57431488 4 | -4.57431136 4 | 9.0-7\| 6.9-7\| 3.9-7 | 12 |
| be250.1 | 251 \| 251; 0 | 1748\|96\| 1886 \| | -2.51195203 4 | -2.51193962 4 | 7.8-7\| 9.3-7\| 2.5-6 | 21 |
| be250.2 | 251 \| 251; 0 | 1850\|83\| 1475 \| | -2.36814843 4 | -2.36815399 4 | 1.1-8\| 5.3-7\| 1.2-6 | 22 |
| be250.3 | 251 \| 251; 0 | 1700\|84\| 1497 \| | -2.40000080 4 | -2.39998314 4 | 2.2-7\| 9.9-7\| 3.7-6 | 20 |
| be250.4 | 251 \| 251; 0 | 2031\|91\| 1801 \| | -2.57203141 4 | -2.57203059 4 | 6.7-15\| 9.8-7\| 1.6-7 | 24 |
| be250.5 | 251 \| 251; 0 | 1850\|81\| 1533 \| | -2.23747003 4 | -2.23747020 4 | 6.2-10\| 8.6-8\| 3.7-8 | 23 |
| be250.6 | 251 \| 251; 0 | 1841\|79\| 1366 \| | -2.40187932 4 | -2.40187019 4 | 2.1-7\| 9.4-7\| 1.9-6 | 21 |
| be250.7 | 251 \| 251; 0 | 1765\|97\| 1831 \| | -2.51189867 4 | -2.51188810 4 | 5.9-14\| 9.9-7\| 2.1-6 | 21 |
| be250.8 | 251 \| 251; 0 | 1850\|89\| 1684 \| | -2.50203586 4 | -2.50203288 4 | 1.3-9\| 4.2-7\| 6.0-7 | 22 |
| be250.9 | 251 \| 251; 0 | 2143\|95\| 1699 \| | -2.13970966 4 | -2.13971051 4 | 9.7-7\| 5.1-7\| 2.0-7 | 26 |
| be250.10 | 251 \| 251; 0 | 1850\|93\| 1712 \| | -2.43550269 4 | -2.43549144 4 | 7.0-9\| 8.1-7\| 2.3-6 | 22 |
| bqp50-1 | 51 \| 51; 0 | 1560\|94\| 1079 \| | -2.14391155 3 | -2.14391348 3 | 4.9-8\| 9.3-7\| 4.5-7 | 03 |
| bqp50-2 | 51 \| 51; 0 | 1850\|64\| 786 \| | -3.74251941 3 | -3.74251911 3 | 6.3-10\| 2.8-7\| 4.0-8 | 03 |
| bqp50-3 | 51 \| 51; 0 | 1250\|36\| 408 \| | -4.63723780 3 | -4.63721522 3 | 6.1-8\| 9.2-7\| 2.4-6 | 02 |
| bqp50-4 | 51 \| 51; 0 | 3800\|129\| 1354 \| | -3.58397248 3 | -3.58397031 3 | 2.2-9\| 2.6-7\| 3.0-7 | 07 |
| bqp50-5 | 51 \| 51; 0 | 1170\|43\| 466 \| | -4.07760592 3 | -4.07760472 3 | 4.7-8\| 7.0-7\| 1.5-7 | 02 |
| bqp50-6 | 51 \| 51; 0 | 1206\|44\| 490 \| | -3.71104488 3 | -3.71104363 3 | 3.3-15\| 9.8-7\| 1.7-7 | 02 |
| bqp50-7 | 51 \| 51; 0 | 945\|21\| 215 \| | -4.64969891 3 | -4.64970004 3 | 8.6-7\| 4.3-7\| 1.2-7 | 01 |
| bqp50-8 | 51 \| 51; 0 | 1073\|40\| 475 \| | -4.26923245 3 | -4.26923771 3 | 4.2-10\| 9.5-7\| 6.2-7 | 02 |
| bqp50-9 | 51 \| 51; 0 | 938\|41\| 467 \| | -3.92163413 3 | -3.92162246 3 | 5.9-8\| 5.9-7\| 1.5-6 | 02 |
| bqp50-10 | 51 \| 51; 0 | 1074\|34\| 357 \| | -3.62637638 3 | -3.62636960 3 | 9.5-7\| 8.3-7\| 9.3-7 | 02 |
| bqp100-1 | 101 \| 101; 0 | 1149\|33\| 444 \| | -8.38040071 3 | -8.38036900 3 | 6.6-7\| 9.6-7\| 1.9-6 | 03 |
| bqp100-2 | 101 \| 101; 0 | 1558\|64\| 914 \| | -1.14892588 4 | -1.14892719 4 | 3.9-15\| 9.9-7\| 5.7-7 | 05 |
| bqp100-3 | 101 \| 101; 0 | 1250\|51\| 827 \| | -1.31531825 4 | -1.31531801 4 | 6.3-8\| 9.1-7\| 9.3-8 | 04 |
| bqp100-4 | 101 \| 101; 0 | 1430\|48\| 686 \| | -1.07318897 4 | -1.07318851 4 | 7.4-10\| 3.2-7\| 2.2-7 | 05 |
| bqp100-5 | 101 \| 101; 0 | 1689\|55\| 711 \| | -9.48704041 3 | -9.48703135 3 | 7.8-7\| 5.2-7\| 4.8-7 | 05 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| bqp100-6 | 101 \| 101; 0 | 1220\|41\| 533 \| | -1.08247874 4 | -1.08247600 4 | 9.4-7\| 5.8-7\| 1.3-6 | 04 |
| bqp100-7 | 101 \| 101; 0 | 1354\|53\| 831 \| | -1.06891629 4 | -1.06891656 4 | 6.7-7\| 4.0-7\| 1.3-7 | 05 |
| bqp100-8 | 101 \| 101; 0 | 1340\|44\| 666 \| | -1.17700146 4 | -1.17699485 4 | 1.5-8\| 9.3-7\| 2.8-6 | 04 |
| bqp100-9 | 101 \| 101; 0 | 1400\|55\| 924 \| | -1.17332439 4 | -1.17332267 4 | 1.0-7\| 9.8-7\| 7.3-7 | 04 |
| bqp100-10 | 101 \| 101; 0 | 1400\|51\| 862 \| | -1.29802651 4 | -1.29802523 4 | 1.7-9\| 4.3-7\| 4.9-7 | 04 |
| bqp250-1 | 251 \| 251; 0 | 1850\|81\| 1587 \| | -4.76631084 4 | -4.76629117 4 | 6.5-9\| 6.1-7\| 2.1-6 | 22 |
| bqp250-2 | 251 \| 251; 0 | 1788\|76\| 1390 \| | -4.72223135 4 | -4.72221918 4 | 8.6-7\| 9.6-7\| 1.3-6 | 20 |
| bqp250-3 | 251 \| 251; 0 | 1850\|83\| 1583 \| | -5.10767069 4 | -5.10766781 4 | 3.4-8\| 4.3-7\| 2.8-7 | 21 |
| bqp250-4 | 251 \| 251; 0 | 1850\|79\| 1425 \| | -4.33125532 4 | -4.33124033 4 | 1.1-7\| 8.6-7\| 1.7-6 | 22 |
| bqp250-5 | 251 \| 251; 0 | 2150\|115\| 2451 \| | -5.00043032 4 | -5.00041710 4 | 2.8-9\| 7.6-7\| 1.3-6 | 26 |
| bqp250-6 | 251 \| 251; 0 | 1850\|87\| 1531 \| | -4.36687817 4 | -4.36687374 4 | 1.5-9\| 8.1-7\| 5.1-7 | 22 |
| bqp250-7 | 251 \| 251; 0 | 1850\|88\| 1738 \| | -4.89216947 4 | -4.89218005 4 | 2.6-9\| 6.9-7\| 1.1-6 | 21 |
| bqp250-8 | 251 \| 251; 0 | 1584\|77\| 1347 \| | -3.87794722 4 | -3.87795160 4 | 8.8-7\| 8.5-7\| 5.6-7 | 18 |
| bqp250-9 | 251 \| 251; 0 | 1784\|76\| 1410 \| | -5.14976315 4 | -5.14980587 4 | 3.8-7\| 9.9-7\| 4.1-6 | 20 |
| bqp250-10 | 251 \| 251; 0 | 1560\|78\| 1252 \| | -4.30144409 4 | -4.30143700 4 | 1.4-9\| 6.3-7\| 8.2-7 | 18 |
| bqp500-1 | 501 \| 501; 0 | 1855\|95\| 1486 \| | -1.25963974 5 | -1.25962515 5 | 6.8-8\| 9.8-7\| 5.8-6 | 1:29 |
| bqp500-2 | 501 \| 501; 0 | 2668\|139\| 2666 \| | -1.36011430 5 | -1.36011354 5 | 6.8-7\| 7.6-7\| 2.8-7 | 2:05 |
| bqp500-3 | 501 \| 501; 0 | 2310\|123\| 2171 \| | -1.38453255 5 | -1.38453030 5 | 1.3-9\| 9.9-7\| 8.1-7 | 1:44 |
| bqp500-4 | 501 \| 501; 0 | 2191\|106\| 1874 \| | -1.39328048 5 | -1.39328150 5 | 2.2-8\| 5.2-7\| 3.7-7 | 1:39 |
| bqp500-5 | 501 \| 501; 0 | 2624\|144\| 2707 \| | -1.34092122 5 | -1.34092648 5 | 7.2-15\| 9.9-7\| 2.0-6 | 2:02 |
| bqp500-6 | 501 \| 501; 0 | 2288\|134\| 2758 \| | -1.30764080 5 | -1.30764074 5 | 1.9-7\| 9.0-7\| 2.6-8 | 1:50 |
| bqp500-7 | 501 \| 501; 0 | 2641\|145\| 2709 \| | -1.31491570 5 | -1.31491960 5 | 5.6-10\| 9.9-7\| 1.5-6 | 2:02 |
| bqp500-8 | 501 \| 501; 0 | 2600\|132\| 2450 \| | -1.33489773 5 | -1.33489957 5 | 1.1-9\| 2.7-7\| 6.9-7 | 1:58 |
| bqp500-9 | 501 \| 501; 0 | 1964\|107\| 1821 \| | -1.30288559 5 | -1.30288018 5 | 9.3-7\| 3.6-7\| 2.1-6 | 1:30 |
| bqp500-10 | 501 \| 501; 0 | 2375\|126\| 2185 \| | -1.38534163 5 | -1.38533605 5 | 3.6-8\| 9.8-7\| 2.0-6 | 1:48 |
| gka1a | 51 \| 51; 0 | 1391\|60\| 705 \| | -3.53747273 3 | -3.53746644 3 | 8.8-7\| 8.2-7\| 8.9-7 | 02 |
| gka2a | 61 \| 61; 0 | 939\|46\| 522 \| | -6.17180386 3 | -6.17180316 3 | 9.3-7\| 9.8-7\| 5.7-8 | 02 |
| gka3a | 71 \| 71; 0 | 1028\|32\| 446 \| | -6.38601139 3 | -6.38600248 3 | 9.4-7\| 2.8-7\| 7.0-7 | 02 |
| gka4a | 81 \| 81; 0 | 1180\|40\| 583 \| | -8.88096805 3 | -8.88095971 3 | 2.9-9\| 3.5-7\| 4.7-7 | 03 |
| gka5a | 51 \| 51; 0 | 1050\|31\| 338 \| | -5.89704630 3 | -5.89704558 3 | 6.0-8\| 7.6-7\| 6.2-8 | 02 |
| gka6a | 31 \| 31; 0 | 790\|14\| 118 \| | -4.10320628 3 | -4.10320692 3 | 1.1-8\| 5.0-7\| 7.8-8 | 02 |
| gka7a | 31 \| 31; 0 | 1801\|86\| 773 \| | -4.63860810 3 | -4.63860692 3 | 6.6-15\| 8.6-7\| 1.3-7 | 03 |
| gka8a | 101 \| 101; 0 | 1630\|69\| 1172 \| | -1.11972250 4 | -1.11972396 4 | 5.7-8\| 5.6-7\| 6.5-7 | 05 |
| gka1b | 21 \| 21; 0 | 360\| 3\| 8 \| | -1.33000000 2 | -1.32999699 2 | 2.5-10\| 9.5-8\| 1.1-6 | 01 |
| gka2b | 31 \| 31; 0 | 1160\|62\| 392 \| | -1.21302442 2 | -1.21304095 2 | 6.8-7\| 7.3-7\| 6.8-6 | 02 |
| gka3b | 41 \| 41; 0 | 370\| 4\| 11 \| | -1.17999995 2 | -1.17999893 2 | 2.0-9\| 5.4-8\| 4.3-7 | 00 |
| gka4b | 51 \| 51; 0 | 350\| 9\| 31 \| | -1.29000004 2 | -1.28999436 2 | 7.2-9\| 6.7-8\| 2.2-6 | 00 |
| gka5b | 61 \| 61; 0 | 350\| 6\| 18 \| | -1.50000001 2 | -1.49999983 2 | 1.5-9\| 8.8-9\| 6.0-8 | 00 |
| gka6b | 71 \| 71; 0 | 350\| 5\| 20 \| | -1.45999958 2 | -1.46000564 2 | 1.7-8\| 5.9-7\| 2.1-6 | 01 |
| gka7b | 81 \| 81; 0 | 748\|10\| 46 \| | -1.60354186 2 | -1.60354745 2 | 0.9-15\| 9.8-7\| 1.7-6 | 01 |
| gka8b | 91 \| 91; 0 | 757\|10\| 40 \| | -1.44998823 2 | -1.45016744 2 | 8.6-7\| 8.3-7\| 6.2-5 | 02 |
| gka9b | 101 \| 101; 0 | 918\|20\| 81 \| | -1.37001529 2 | -1.36996406 2 | 9.1-9\| 1.6-7\| 1.9-5 | 03 |
| gka10b | 126 \| 126; 0 | 1215\|47\| 326 \| | -1.55563432 2 | -1.55563804 2 | 2.7-7\| 9.3-7\| 1.2-6 | 05 |
| gka1c | 41 \| 41; 0 | 1165\|36\| 385 \| | -5.11382071 3 | -5.11383044 3 | 2.0-12\| 8.0-7\| 9.5-7 | 02 |
| gka2c | 51 \| 51; 0 | 1090\|34\| 468 \| | -6.32000261 3 | -6.31998899 3 | 2.3-7\| 7.1-7\| 1.1-6 | 02 |
| gka3c | 61 \| 61; 0 | 950\|28\| 341 \| | -6.81389647 3 | -6.81389038 3 | 4.0-10\| 2.9-7\| 4.5-7 | 02 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| gka4c | 71 \| 71; 0 | 1205\|35\| 442 \| | -7.56500948 3 | -7.56499938 3 | 1.7-15\| 9.9-7\| 6.7-7 | 02 |
| gka5c | 81 \| 81; 0 | 1283\|45\| 691 \| | -7.57623332 3 | -7.57622706 3 | 1.0-10\| 7.3-7\| 4.1-7 | 03 |
| gka6c | 91 \| 91; 0 | 1517\|45\| 646 \| | -5.96193737 3 | -5.96195679 3 | 1.5-10\| 9.9-7\| 1.6-6 | 04 |
| gka7c | 101 \| 101; 0 | 1778\|58\| 877 \| | -7.31645462 3 | -7.31645752 3 | 1.1-7\| 9.9-7\| 2.0-7 | 05 |
| gka1d | 101 \| 101; 0 | 1420\|45\| 730 \| | -6.52842631 3 | -6.52842438 3 | 1.1-7\| 9.6-7\| 1.5-7 | 04 |
| gka2d | 101 \| 101; 0 | 1130\|63\| 784 \| | -6.99070930 3 | -6.99068535 3 | 8.9-8\| 9.2-7\| 1.7-6 | 04 |
| gka3d | 101 \| 101; 0 | 1250\|42\| 569 \| | -9.73430782 3 | -9.73430126 3 | 1.9-7\| 9.5-7\| 3.4-7 | 04 |
| gka4d | 101 \| 101; 0 | 1318\|44\| 573 \| | -1.12784306 4 | -1.12784234 4 | 8.4-7\| 5.3-7\| 3.2-7 | 04 |
| gka5d | 101 \| 101; 0 | 950\|49\| 638 \| | -1.23988559 4 | -1.23988499 4 | 3.7-8\| 6.8-7\| 2.4-7 | 04 |
| gka6d | 101 \| 101; 0 | 1100\|35\| 448 \| | -1.49293924 4 | -1.49293783 4 | 9.7-7\| 6.9-7\| 4.7-7 | 03 |
| gka7d | 101 \| 101; 0 | 1130\|34\| 418 \| | -1.53758469 4 | -1.53758471 4 | 8.4-7\| 7.0-7\| 7.8-9 | 03 |
| gka8d | 101 \| 101; 0 | 1679\|99\| 1282 \| | -1.70053875 4 | -1.70053213 4 | 9.7-7\| 9.4-7\| 1.9-6 | 06 |
| gka9d | 101 \| 101; 0 | 897\|33\| 398 \| | -1.65338725 4 | -1.65338692 4 | 6.2-7\| 9.4-7\| 9.9-8 | 03 |
| gka10d | 101 \| 101; 0 | 1155\|46\| 667 \| | -2.01085568 4 | -2.01085966 4 | 8.2-13\| 9.8-7\| 9.9-7 | 04 |
| gka1e | 201 \| 201; 0 | 1850\|90\| 1694 \| | -1.70698107 4 | -1.70698365 4 | 3.4-9\| 6.0-7\| 7.6-7 | 16 |
| gka2e | 201 \| 201; 0 | 1550\|75\| 1265 \| | -2.49176076 4 | -2.49175908 4 | 8.0-8\| 9.3-7\| 3.4-7 | 13 |
| gka3e | 201 \| 201; 0 | 1850\|78\| 1157 \| | -2.68987361 4 | -2.68987487 4 | 1.1-9\| 1.8-7\| 2.3-7 | 15 |
| gka4e | 201 \| 201; 0 | 1742\|75\| 1137 \| | -3.72251787 4 | -3.72249674 4 | 6.8-15\| 9.6-7\| 2.8-6 | 14 |
| gka5e | 201 \| 201; 0 | 1850\|89\| 1387 \| | -3.80022999 4 | -3.80022977 4 | 6.6-10\| 3.3-7\| 3.0-8 | 15 |
| gka1f | 501 \| 501; 0 | 2450\|146\| 2778 \| | -6.55589508 4 | -6.55587672 4 | 2.4-9\| 8.0-7\| 1.4-6 | 1:58 |
| gka2f | 501 \| 501; 0 | 2401\|127\| 2147 \| | -1.07931766 5 | -1.07931453 5 | 2.6-11\| 9.0-7\| 1.5-6 | 1:52 |
| gka3f | 501 \| 501; 0 | 1983\|105\| 1748 \| | -1.50151279 5 | -1.50150542 5 | 1.1-7\| 9.5-7\| 2.5-6 | 1:29 |
| gka4f | 501 \| 501; 0 | 2062\|110\| 1775 \| | -1.87089689 5 | -1.87088512 5 | 9.0-7\| 8.4-7\| 3.1-6 | 1:33 |
| gka5f | 501 \| 501; 0 | 2579\|144\| 2439 \| | -2.06914753 5 | -2.06914419 5 | 6.6-7\| 9.6-7\| 8.1-7 | 1:56 |
| soybean-small.2 | 47 \| 48; 0 | 288\| 0\| 0 \| | -2.81363892 3 | -2.81363653 3 | 9.9-7\| 7.0-7\| 4.2-7 | 00 |
| soybean-small.3 | 47 \| 48; 0 | 128\| 0\| 0 \| | -2.96754013 3 | -2.96753914 3 | 1.0-7\| 5.5-7\| 1.7-7 | 00 |
| soybean-small.4 | 47 \| 48; 0 | 554\|36\| 143 \| | -3.00972593 3 | -3.00972506 3 | 6.1-7\| 9.7-7\| 1.4-7 | 03 |
| soybean-small.5 | 47 \| 48; 0 | 237\| 0\| 0 \| | -3.03220503 3 | -3.03220419 3 | 4.1-7\| 9.2-7\| 1.4-7 | 00 |
| soybean-small.6 | 47 \| 48; 0 | 401\|10\| 40 \| | -3.05012983 3 | -3.05012744 3 | 8.7-7\| 8.7-8\| 3.9-7 | 01 |
| soybean-small.7 | 47 \| 48; 0 | 437\|10\| 38 \| | -3.06675467 3 | -3.06675299 3 | 6.7-7\| 9.1-7\| 2.7-7 | 01 |
| soybean-small.8 | 47 \| 48; 0 | 838\|40\| 152 \| | -3.08051649 3 | -3.08051346 3 | 9.8-7\| 9.2-7\| 4.9-7 | 02 |
| soybean-small.9 | 47 \| 48; 0 | 493\|27\| 100 \| | -3.09259261 3 | -3.09258935 3 | 9.8-7\| 8.9-7\| 5.3-7 | 01 |
| soybean-small.10 | 47 \| 48; 0 | 344\|10\| 39 \| | -3.10322729 3 | -3.10322263 3 | 8.6-7\| 9.7-7\| 7.5-7 | 01 |
| soybean-small.11 | 47 \| 48; 0 | 467\|10\| 31 \| | -3.11173559 3 | -3.11173240 3 | 9.9-7\| 3.4-7\| 5.1-7 | 01 |
| soybean-large.2 | 307 \| 308; 0 | 981\|17\| 105 \| | -1.03875799 4 | -1.03875778 4 | 3.9-7\| 9.6-7\| 1.0-7 | 11 |
| soybean-large.3 | 307 \| 308; 0 | 857\|15\| 75 \| | -1.12751951 4 | -1.12751935 4 | 2.8-7\| 8.7-7\| 7.3-8 | 10 |
| soybean-large.4 | 307 \| 308; 0 | 1205\|21\| 91 \| | -1.18046300 4 | -1.18046251 4 | 5.4-7\| 9.7-7\| 2.1-7 | 15 |
| soybean-large.5 | 307 \| 308; 0 | 852\|19\| 100 \| | -1.22194223 4 | -1.22194189 4 | 6.5-7\| 8.9-7\| 1.4-7 | 12 |
| soybean-large.6 | 307 \| 308; 0 | 328\|11\| 55 \| | -1.25833217 4 | -1.25833214 4 | 1.7-7\| 9.9-7\| 1.5-8 | 04 |
| soybean-large.7 | 307 \| 308; 0 | 619\|10\| 42 \| | -1.28447309 4 | -1.28447268 4 | 6.8-7\| 9.9-7\| 1.6-7 | 08 |
| soybean-large.8 | 307 \| 308; 0 | 679\|10\| 42 \| | -1.30828321 4 | -1.30828299 4 | 4.1-7\| 9.9-7\| 8.6-8 | 09 |
| soybean-large.9 | 307 \| 308; 0 | 775\|15\| 60 \| | -1.32983141 4 | -1.32983108 4 | 6.5-7\| 9.9-7\| 1.2-7 | 10 |
| soybean-large.10 | 307 \| 308; 0 | 342\| 0\| 0 \| | -1.34817450 4 | -1.34817424 4 | 1.9-8\| 8.7-7\| 9.5-8 | 05 |
| soybean-large.11 | 307 \| 308; 0 | 796\|10\| 47 \| | -1.36196837 4 | -1.36196784 4 | 2.1-9\| 6.4-7\| 1.9-7 | 10 |
| spambase-small.2 | 300 \| 301; 0 | 390\| 2\| 12 \| | -9.25854857 7 | -9.25854894 7 | 8.2-7\| 8.5-7\| 2.0-8 | 04 |
| spambase-small.3 | 300 \| 301; 0 | 448\|11\| 53 \| | -1.07417671 8 | -1.07417615 8 | 5.8-7\| 9.9-7\| 2.6-7 | 05 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| spambase-small.4 | 300 \| 301; 0 | 1080\|20\| 79 \| | -1.10831976 8 | -1.10831957 8 | 6.7-7\| 9.8-7\| 8.6-8 | 12 |
| spambase-small.5 | 300 \| 301; 0 | 575\|10\| 48 \| | -1.12412179 8 | -1.12412230 8 | 1.8-8\| 3.7-7\| 2.3-7 | 07 |
| spambase-small.6 | 300 \| 301; 0 | 892\|10\| 41 \| | -1.13338473 8 | -1.13338442 8 | 1.9-14\| 9.9-7\| 1.4-7 | 10 |
| spambase-small.7 | 300 \| 301; 0 | 795\|10\| 40 \| | -1.14083038 8 | -1.14083059 8 | 7.4-7\| 9.6-7\| 9.1-8 | 10 |
| spambase-small.8 | 300 \| 301; 0 | 1000\|36\| 154 \| | -1.14667084 8 | -1.14666730 8 | 9.8-7\| 9.8-7\| 1.5-6 | 14 |
| spambase-small.9 | 300 \| 301; 0 | 742\|20\| 85 \| | -1.15153685 8 | -1.15153734 8 | 9.7-7\| 9.2-7\| 2.1-7 | 10 |
| spambase-small.10 | 300 \| 301; 0 | 1003\|31\| 123 \| | -1.15530583 8 | -1.15530399 8 | 7.0-7\| 9.2-7\| 8.0-7 | 15 |
| spambase-small.11 | 300 \| 301; 0 | 1172\|43\| 169 \| | -1.15801218 8 | -1.15801413 8 | 1.7-7\| 9.3-7\| 8.4-7 | 17 |
| spambase-medium.2 | 900 \| 901; 0 | 576\| 0\| 0 \| | -4.85230450 8 | -4.85234460 8 | 7.4-14\| 5.5-7\| 4.1-6 | 1:17 |
| spambase-medium.3 | 900 \| 901; 0 | 1098\|11\| 64 \| | -5.76054288 8 | -5.76054012 8 | 5.8-7\| 9.9-7\| 2.4-7 | 2:25 |
| spambase-medium.4 | 900 \| 901; 0 | 2438\|46\| 346 \| | -6.25143363 8 | -6.25146734 8 | 1.8-7\| 9.7-7\| 2.7-6 | 5:44 |
| spambase-medium.5 | 900 \| 901; 0 | 1724\|32\| 151 \| | -6.45167059 8 | -6.45167244 8 | 2.4-8\| 9.8-7\| 1.4-7 | 4:01 |
| spambase-medium.6 | 900 \| 901; 0 | 1318\|24\| 127 \| | -6.55737820 8 | -6.55737263 8 | 1.0-7\| 9.7-7\| 4.2-7 | 3:09 |
| spambase-medium.7 | 900 \| 901; 0 | 1481\|21\| 99 \| | -6.63067439 8 | -6.63067090 8 | 6.5-7\| 9.7-7\| 2.6-7 | 3:29 |
| spambase-medium.8 | 900 \| 901; 0 | 1318\|36\| 153 \| | -6.68465967 8 | -6.68461157 8 | 2.6-7\| 9.3-7\| 3.6-6 | 3:17 |
| spambase-medium.9 | 900 \| 901; 0 | 1301\|32\| 144 \| | -6.72422601 8 | -6.72421238 8 | 5.2-7\| 9.0-7\| 1.0-6 | 3:16 |
| spambase-medium.10 | 900 \| 901; 0 | 1706\|41\| 196 \| | -6.75464220 8 | -6.75469385 8 | 4.5-7\| 8.7-7\| 3.8-6 | 4:14 |
| spambase-medium.11 | 900 \| 901; 0 | 2025\|52\| 250 \| | -6.78067460 8 | -6.78071829 8 | 1.9-9\| 7.6-7\| 3.2-6 | 5:01 |
| spambase-large.2 | 1500 \| 1501; 0 | 691\|12\| 81 \| | -9.55436007 8 | -9.55447814 8 | 5.7-14\| 5.5-7\| 6.2-6 | 4:59 |
| spambase-large.3 | 1500 \| 1501; 0 | 1659\|23\| 148 \| | -1.19059001 9 | -1.19058572 9 | 5.9-7\| 9.8-7\| 1.8-6 | 10:35 |
| spambase-large.4 | 1500 \| 1501; 0 | 2521\|45\| 268 \| | -1.28689819 9 | -1.28689918 9 | 1.5-7\| 9.0-7\| 3.9-7 | 16:40 |
| spambase-large.5 | 1500 \| 1501; 0 | 6760\|109\| 251 \| | -1.32383165 9 | -1.32382764 9 | 2.1-9\| 8.7-7\| 1.5-6 | 51:49 |
| spambase-large.6 | 1500 \| 1501; 0 | 3040\|51\| 271 \| | -1.35381624 9 | -1.35381515 9 | 9.4-7\| 6.3-7\| 4.0-7 | 20:35 |
| spambase-large.7 | 1500 \| 1501; 0 | 1624\|33\| 159 \| | -1.37079854 9 | -1.37078265 9 | 6.9-7\| 8.4-7\| 5.8-6 | 11:14 |
| spambase-large.8 | 1500 \| 1501; 0 | 2016\|32\| 148 \| | -1.38310673 9 | -1.38310078 9 | 8.6-7\| 9.6-7\| 2.1-6 | 13:52 |
| spambase-large.9 | 1500 \| 1501; 0 | 1910\|37\| 171 \| | -1.39142420 9 | -1.39141577 9 | 1.1-10\| 7.2-7\| 3.0-6 | 13:27 |
| spambase-large.10 | 1500 \| 1501; 0 | 2036\|42\| 171 \| | -1.39692597 9 | -1.39692852 9 | 9.9-7\| 8.8-7\| 9.1-7 | 14:12 |
| spambase-large.11 | 1500 \| 1501; 0 | 1740\|47\| 217 \| | -1.40162120 9 | -1.40162312 9 | 4.8-7\| 9.9-7\| 6.8-7 | 12:13 |
| abalone-small.2 | 200 \| 201; 0 | 334\|11\| 54 \| | -2.50511332 4 | -2.50511224 4 | 6.4-7\| 8.9-7\| 2.2-7 | 02 |
| abalone-small.3 | 200 \| 201; 0 | 233\| 0\| 0 \| | -2.54726281 4 | -2.54726205 4 | 6.9-15\| 9.9-7\| 1.5-7 | 01 |
| abalone-small.4 | 200 \| 201; 0 | 412\|11\| 44 \| | -2.56536916 4 | -2.56536867 4 | 9.8-7\| 4.9-7\| 9.5-8 | 03 |
| abalone-small.5 | 200 \| 201; 0 | 692\|11\| 43 \| | -2.57428777 4 | -2.57428766 4 | 2.2-14\| 4.2-7\| 2.2-8 | 05 |
| abalone-small.6 | 200 \| 201; 0 | 699\|11\| 44 \| | -2.57921224 4 | -2.57921173 4 | 1.8-14\| 8.9-7\| 1.0-7 | 05 |
| abalone-small.7 | 200 \| 201; 0 | 664\|21\| 84 \| | -2.58187019 4 | -2.58187050 4 | 3.8-7\| 9.6-7\| 6.0-8 | 05 |
| abalone-small.8 | 200 \| 201; 0 | 915\|21\| 82 \| | -2.58346622 4 | -2.58346562 4 | 6.8-7\| 9.6-7\| 1.2-7 | 07 |
| abalone-small.9 | 200 \| 201; 0 | 1056\|31\| 121 \| | -2.58462026 4 | -2.58461938 4 | 7.7-7\| 9.4-7\| 1.7-7 | 08 |
| abalone-small.10 | 200 \| 201; 0 | 1318\|41\| 157 \| | -2.58566415 4 | -2.58566329 4 | 8.6-11\| 8.3-7\| 1.7-7 | 10 |
| abalone-small.11 | 200 \| 201; 0 | 931\|21\| 83 \| | -2.58647448 4 | -2.58647406 4 | 4.8-7\| 9.6-7\| 8.0-8 | 07 |
| abalone-medium.2 | 400 \| 401; 0 | 521\|11\| 54 \| | -5.45538165 4 | -5.45538103 4 | 1.2-7\| 9.5-7\| 5.7-8 | 11 |
| abalone-medium.3 | 400 \| 401; 0 | 455\|11\| 49 \| | -5.56615464 4 | -5.56615458 4 | 5.9-15\| 9.8-7\| 5.4-9 | 10 |
| abalone-medium.4 | 400 \| 401; 0 | 515\|11\| 48 \| | -5.61299005 4 | -5.61299012 4 | 2.7-14\| 9.9-7\| 6.2-9 | 12 |
| abalone-medium.5 | 400 \| 401; 0 | 732\|10\| 44 \| | -5.63472567 4 | -5.63472658 4 | 1.6-14\| 9.9-7\| 8.0-8 | 16 |
| abalone-medium.6 | 400 \| 401; 0 | 610\|10\| 39 \| | -5.64713360 4 | -5.64713202 4 | 7.4-14\| 9.9-7\| 1.4-7 | 14 |
| abalone-medium.7 | 400 \| 401; 0 | 1137\|22\| 91 \| | -5.65476440 4 | -5.65476338 4 | 4.3-14\| 9.9-7\| 9.0-8 | 26 |
| abalone-medium.8 | 400 \| 401; 0 | 725\|10\| 39 \| | -5.65993084 4 | -5.65993030 4 | 8.6-7\| 8.0-7\| 4.8-8 | 17 |
| abalone-medium.9 | 400 \| 401; 0 | 910\|20\| 80 \| | -5.66328357 4 | -5.66328416 4 | 7.3-7\| 9.2-7\| 5.2-8 | 23 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| abalone-medium.10 | 400 \| 401; 0 | 1055\|30\| 122 \| | -5.66549581 4 | -5.66549747 4 | 8.3-7\| 9.8-7\| 1.5-7 | 27 |
| abalone-medium.11 | 400 \| 401; 0 | 974\|30\| 129 \| | -5.66751145 4 | -5.66750534 4 | 8.6-7\| 9.6-7\| 5.4-7 | 25 |
| abalone-large.2 | 1000 \| 1001; 0 | 633\|11\| 61 \| | -1.30642414 5 | -1.30642294 5 | 2.3-7\| 8.1-7\| 4.6-7 | 1:51 |
| abalone-large.3 | 1000 \| 1001; 0 | 698\|11\| 54 \| | -1.33354455 5 | -1.33354424 5 | 1.3-7\| 9.8-7\| 1.2-7 | 2:03 |
| abalone-large.4 | 1000 \| 1001; 0 | 626\|11\| 53 \| | -1.34437207 5 | -1.34437198 5 | 2.5-14\| 8.0-7\| 3.5-8 | 1:58 |
| abalone-large.5 | 1000 \| 1001; 0 | 924\|11\| 48 \| | -1.34950187 5 | -1.34950175 5 | 9.2-14\| 4.9-7\| 4.5-8 | 2:52 |
| abalone-large.6 | 1000 \| 1001; 0 | 895\|10\| 38 \| | -1.35247486 5 | -1.35247460 5 | 2.1-13\| 9.9-7\| 9.6-8 | 2:41 |
| abalone-large.7 | 1000 \| 1001; 0 | 962\|21\| 91 \| | -1.35438749 5 | -1.35438669 5 | 2.5-7\| 9.9-7\| 3.0-7 | 2:57 |
| abalone-large.8 | 1000 \| 1001; 0 | 950\|12\| 47 \| | -1.35575546 5 | -1.35575525 5 | 5.9-9\| 7.2-7\| 7.8-8 | 2:56 |
| abalone-large.9 | 1000 \| 1001; 0 | 1459\|20\| 83 \| | -1.35664386 5 | -1.35664323 5 | 2.4-13\| 9.9-7\| 2.3-7 | 4:26 |
| abalone-large.10 | 1000 \| 1001; 0 | 1440\|30\| 123 \| | -1.35722243 5 | -1.35722212 5 | 4.6-10\| 3.8-7\| 1.2-7 | 4:27 |
| abalone-large.11 | 1000 \| 1001; 0 | 1771\|41\| 184 \| | -1.35770936 5 | -1.35770894 5 | 6.9-12\| 9.9-7\| 1.6-7 | 5:34 |
| segment-small.2 | 400 \| 401; 0 | 1680\|42\| 259 \| | -1.82059045 7 | -1.82059053 7 | 1.3-11\| 3.3-7\| 2.2-8 | 35 |
| segment-small.3 | 400 \| 401; 0 | 1395\|20\| 105 \| | -1.94644351 7 | -1.94644284 7 | 3.6-7\| 9.8-7\| 1.7-7 | 30 |
| segment-small.4 | 400 \| 401; 0 | 828\|26\| 134 \| | -2.00012761 7 | -2.00012678 7 | 6.2-7\| 8.4-7\| 2.1-7 | 20 |
| segment-small.5 | 400 \| 401; 0 | 2969\|92\| 445 \| | -2.03419760 7 | -2.03419654 7 | 2.8-7\| 8.6-7\| 2.6-7 | 1:24 |
| segment-small.6 | 400 \| 401; 0 | 2306\|75\| 352 \| | -2.05995291 7 | -2.05995226 7 | 2.1-7\| 7.8-7\| 1.6-7 | 1:07 |
| segment-small.7 | 400 \| 401; 0 | 976\|20\| 80 \| | -2.08095349 7 | -2.08095266 7 | 7.4-7\| 9.9-7\| 2.0-7 | 24 |
| segment-small.8 | 400 \| 401; 0 | 1420\|45\| 218 \| | -2.09777514 7 | -2.09777398 7 | 1.0-6\| 8.5-7\| 2.8-7 | 42 |
| segment-small.9 | 400 \| 401; 0 | 972\|36\| 145 \| | -2.11129210 7 | -2.11129115 7 | 7.4-7\| 9.9-7\| 2.3-7 | 28 |
| segment-small.10 | 400 \| 401; 0 | 1227\|55\| 238 \| | -2.12250064 7 | -2.12250055 7 | 8.3-13\| 4.0-8\| 2.1-8 | 40 |
| segment-small.11 | 400 \| 401; 0 | 1250\|74\| 312 \| | -2.13168778 7 | -2.13168678 7 | 3.3-12\| 9.3-7\| 2.3-7 | 43 |
| segment-medium.2 | 700 \| 701; 0 | 811\|15\| 94 \| | -3.21827019 7 | -3.21827901 7 | 8.1-14\| 6.1-7\| 1.4-6 | 1:00 |
| segment-medium.3 | 700 \| 701; 0 | 789\|11\| 65 \| | -3.53523943 7 | -3.53523441 7 | 8.8-7\| 8.3-7\| 7.1-7 | 57 |
| segment-medium.4 | 700 \| 701; 0 | 1655\|35\| 200 \| | -3.70113989 7 | -3.70113915 7 | 2.8-8\| 9.8-7\| 1.0-7 | 2:05 |
| segment-medium.5 | 700 \| 701; 0 | 1683\|26\| 139 \| | -3.78602004 7 | -3.78601755 7 | 8.0-7\| 9.7-7\| 3.3-7 | 2:07 |
| segment-medium.6 | 700 \| 701; 0 | 2150\|50\| 239 \| | -3.84997121 7 | -3.84997056 7 | 9.3-12\| 7.9-7\| 8.4-8 | 2:56 |
| segment-medium.7 | 700 \| 701; 0 | 3050\|70\| 321 \| | -3.89902994 7 | -3.89902938 7 | 2.0-11\| 9.9-7\| 7.2-8 | 4:26 |
| segment-medium.8 | 700 \| 701; 0 | 2803\|64\| 328 \| | -3.93883237 7 | -3.93882897 7 | 9.9-7\| 9.4-7\| 4.3-7 | 3:57 |
| segment-medium.9 | 700 \| 701; 0 | 2066\|47\| 214 \| | -3.97399549 7 | -3.97399290 7 | 1.0-6\| 9.9-7\| 3.3-7 | 2:55 |
| segment-medium.10 | 700 \| 701; 0 | 1400\|31\| 133 \| | -4.00490046 7 | -4.00490024 7 | 1.8-10\| 8.8-7\| 2.7-8 | 1:53 |
| segment-medium.11 | 700 \| 701; 0 | 1437\|32\| 154 \| | -4.03153621 7 | -4.03153206 7 | 9.1-7\| 9.0-7\| 5.2-7 | 1:59 |
| segment-large.2 | 1000 \| 1001; 0 | 1010\|27\| 176 \| | -4.58628865 7 | -4.58629026 7 | 6.3-10\| 7.4-7\| 1.7-7 | 3:04 |
| segment-large.3 | 1000 \| 1001; 0 | 440\|14\| 87 \| | -5.01873403 7 | -5.01874407 7 | 9.1-12\| 9.5-7\| 1.0-6 | 1:21 |
| segment-large.4 | 1000 \| 1001; 0 | 1550\|24\| 130 \| | -5.24109228 7 | -5.24109022 7 | 6.5-7\| 9.7-7\| 2.0-7 | 4:43 |
| segment-large.5 | 1000 \| 1001; 0 | 2135\|30\| 163 \| | -5.35954744 7 | -5.35954459 7 | 6.6-7\| 9.9-7\| 2.7-7 | 6:10 |
| segment-large.6 | 1000 \| 1001; 0 | 2171\|37\| 186 \| | -5.44822631 7 | -5.44822560 7 | 3.1-11\| 9.1-7\| 6.5-8 | 6:46 |
| segment-large.7 | 1000 \| 1001; 0 | 3468\|99\| 494 \| | -5.51944096 7 | -5.51943624 7 | 6.9-7\| 9.4-7\| 4.3-7 | 11:17 |
| segment-large.8 | 1000 \| 1001; 0 | 2806\|83\| 430 \| | -5.57918988 7 | -5.57918714 7 | 2.7-7\| 8.7-7\| 2.5-7 | 8:54 |
| segment-large.9 | 1000 \| 1001; 0 | 2026\|30\| 154 \| | -5.62918619 7 | -5.62918651 7 | 9.4-8\| 9.9-7\| 2.8-8 | 5:54 |
| segment-large.10 | 1000 \| 1001; 0 | 1237\|21\| 98 \| | -5.67153591 7 | -5.67154272 7 | 1.5-7\| 8.9-7\| 6.0-7 | 3:35 |
| segment-large.11 | 1000 \| 1001; 0 | 1586\|24\| 109 \| | -5.70767228 7 | -5.70767379 7 | 7.3-7\| 9.9-7\| 1.3-7 | 4:40 |
| housing.2 | 506 \| 507; 0 | 950\|22\| 99 \| | -1.65438237 8 | -1.65438193 8 | 2.2-7\| 6.7-7\| 1.3-7 | 30 |
| housing.3 | 506 \| 507; 0 | 948\|13\| 58 \| | -1.68189534 8 | -1.68189546 8 | 2.9-7\| 9.9-7\| 3.7-8 | 29 |
| housing.4 | 506 \| 507; 0 | 866\|11\| 44 \| | -1.69406459 8 | -1.69406447 8 | 1.6-14\| 9.9-7\| 3.3-8 | 27 |
| housing.5 | 506 \| 507; 0 | 1283\|22\| 88 \| | -1.69819029 8 | -1.69818932 8 | 5.1-7\| 9.0-7\| 2.8-7 | 42 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| housing.6 | 506 \| 507; 0 | 572\|11\| 44 \| | -1.70087530 8 | -1.70087451 8 | 6.6-7\| 9.6-7\| 2.3-7 | 19 |
| housing.7 | 506 \| 507; 0 | 620\|10\| 36 \| | -1.70246567 8 | -1.70246513 8 | 7.0-14\| 9.7-7\| 1.6-7 | 21 |
| housing.8 | 506 \| 507; 0 | 639\|10\| 40 \| | -1.70367264 8 | -1.70367178 8 | 7.8-7\| 8.3-7\| 2.5-7 | 23 |
| housing.9 | 506 \| 507; 0 | 935\|20\| 76 \| | -1.70457745 8 | -1.70457735 8 | 5.1-14\| 9.9-7\| 3.1-8 | 34 |
| housing.10 | 506 \| 507; 0 | 808\|21\| 79 \| | -1.70527356 8 | -1.70527253 8 | 9.9-7\| 7.5-7\| 3.0-7 | 31 |
| housing.11 | 506 \| 507; 0 | 700\|20\| 82 \| | -1.70586597 8 | -1.70586616 8 | 5.7-7\| 6.1-7\| 5.7-8 | 28 |
| nonsym(5,4) | 125 \| 3374; 0 | 300\| 9\| 146 \| | 3.06439057 0 | 3.06438645 0 | 1.3-9\| 7.2-8\| 5.8-7 | 01 |
| nonsym(6,4) | 216 \| 9260; 0 | 300\|13\| 225 \| | 3.07677793 0 | 3.07677646 0 | 8.9-10\| 2.0-8\| 2.1-7 | 03 |
| nonsym(7,4) | 343 \| 21951; 0 | 300\| 6\| 94 \| | 5.07407698 0 | 5.07422227 0 | 7.8-9\| 8.7-7\| 1.3-5 | 04 |
| nonsym(8,4) | 512 \| 46655; 0 | 200\|12\| 265 \| | 5.74082988 0 | 5.74071659 0 | 4.2-8\| 5.1-7\| 9.1-6 | 11 |
| nonsym(9,4) | 729 \| 91124; 0 | 200\|14\| 531 \| | 1.06613341 0 | 1.06612227 0 | 2.5-8\| 2.2-7\| 3.6-6 | 28 |
| nonsym(10,4) | 1000 \| 166374; 0 | 200\|23\| 1081 \| | 1.69471510 0 | 1.69471240 0 | 9.8-10\| 2.6-8\| 6.1-7 | 1:19 |
| nonsym(11,4) | 1331 \| 287495; 0 | 200\|24\| 1142 \| | 2.91348519 0 | 2.91346243 0 | 1.1-8\| 1.1-7\| 3.3-6 | 2:33 |
| nonsym(3,5) | 81 \| 1295; 0 | 300\|13\| 373 \| | 1.01163242 0 | 1.01163238 0 | 6.5-9\| 8.2-8\| 1.5-8 | 01 |
| nonsym(4,5) | 256 \| 9999; 0 | 300\|13\| 298 \| | 1.51740831 0 | 1.51740731 0 | 6.5-10\| 2.6-8\| 2.5-7 | 03 |
| nonsym(5,5) | 625 \| 50624; 0 | 200\|15\| 813 \| | 3.08257429 0 | 3.08249469 0 | 1.7-8\| 5.6-7\| 1.1-5 | 22 |
| nonsym(6,5) | 1296 \| 194480; 0 | 200\|22\| 1234 \| | 3.09571775 0 | 3.09558424 0 | 2.4-8\| 6.2-7\| 1.9-5 | 2:18 |
| sym-rd(3,20) | 231 \| 10625; 0 | 144\|12\| 375 \| | 1.52149936 0 | 1.52148260 0 | 1.7-8\| 8.5-7\| 4.1-6 | 02 |
| sym-rd(3,25) | 351 \| 23750; 0 | 237\| 6\| 116 \| | 1.62974610 0 | 1.62972705 0 | 1.5-8\| 7.7-7\| 4.5-6 | 04 |
| sym-rd(3,30) | 496 \| 46375; 0 | 300\| 9\| 270 \| | 1.82416574 0 | 1.82417577 0 | 8.5-9\| 3.3-7\| 2.2-6 | 13 |
| sym-rd(3,35) | 666 \| 82250; 0 | 200\|13\| 611 \| | 1.82999315 0 | 1.82999629 0 | 1.3-9\| 1.2-7\| 6.7-7 | 26 |
| sym-rd(3,40) | 861 \| 135750; 0 | 200\|12\| 563 \| | 1.99315449 0 | 1.99316213 0 | 6.7-9\| 2.3-7\| 1.5-6 | 46 |
| sym-rd(3,45) | 1081 \| 211875; 0 | 200\|15\| 727 \| | 2.14077124 0 | 2.14078555 0 | 1.5-8\| 2.0-7\| 2.7-6 | 1:29 |
| sym-rd(3,50) | 1326 \| 316250; 0 | 200\|16\| 822 \| | 2.06949898 0 | 2.06952016 0 | 8.1-9\| 3.8-7\| 4.1-6 | 2:31 |
| sym-rd(4,20) | 210 \| 8854; 0 | 300\| 7\| 108 \| | 8.60612356 0 | 8.60613614 0 | 7.0-10\| 7.9-8\| 6.9-7 | 02 |
| sym-rd(4,25) | 325 \| 20474; 0 | 236\|10\| 315 \| | 8.56184158 0 | 8.56184120 0 | 7.8-10\| 2.8-8\| 2.1-8 | 05 |
| sym-rd(4,30) | 465 \| 40919; 0 | 183\|13\| 540 \| | 9.56021684 0 | 9.56021421 0 | 7.7-10\| 3.1-8\| 1.3-7 | 12 |
| sym-rd(4,35) | 630 \| 73814; 0 | 181\|16\| 791 \| | 1.09833230 1 | 1.09833519 1 | 4.4-9\| 9.3-8\| 1.3-6 | 26 |
| sym-rd(4,40) | 820 \| 123409; 0 | 241\|16\| 490 \| | 1.15471853 1 | 1.15471343 1 | 9.3-7\| 6.9-8\| 2.1-6 | 58 |
| sym-rd(4,45) | 1035 \| 194579; 0 | 223\|14\| 278 \| | 1.18424638 1 | 1.18424536 1 | 8.9-7\| 7.0-8\| 4.2-7 | 1:27 |
| sym-rd(4,50) | 1275 \| 292824; 0 | 178\|13\| 238 \| | 1.30418139 1 | 1.30416323 1 | 1.1-7\| 9.1-7\| 6.7-6 | 1:50 |
| sym-rd(5,5) | 56 \| 461; 0 | 176\| 5\| 67 \| | 1.95250568 0 | 1.95251473 0 | 1.4-9\| 3.3-7\| 1.8-6 | 00 |
| sym-rd(5,10) | 286 \| 8007; 0 | 156\| 5\| 106 \| | 2.98125564 0 | 2.98127246 0 | 3.0-9\| 5.9-7\| 2.4-6 | 02 |
| sym-rd(5,15) | 816 \| 54263; 0 | 196\|18\| 781 \| | 3.49345899 0 | 3.49365575 0 | 1.8-8\| 7.6-7\| 2.5-5 | 46 |
| sym-rd(5,20) | 1771 \| 230229; 0 | 200\|19\| 1479 \| | 4.17921608 0 | 4.17920216 0 | 7.2-10\| 2.7-8\| 1.5-6 | 6:58 |
| sym-rd(6,5) | 35 \| 209; 0 | 149\| 3\| 40 \| | 1.31674325 1 | 1.31673824 1 | 6.1-9\| 3.3-7\| 1.8-6 | 00 |
| sym-rd(6,10) | 220 \| 5004; 0 | 165\| 4\| 84 \| | 2.27372926 1 | 2.27372308 1 | 2.9-9\| 7.0-7\| 1.3-6 | 01 |
| sym-rd(6,15) | 680 \| 38759; 0 | 200\|19\| 1290 \| | 2.70986913 1 | 2.70987006 1 | 1.2-9\| 5.3-8\| 1.7-7 | 42 |
| sym-rd(6,20) | 1540 \| 177099; 0 | 185\|17\| 1226 \| | 3.15083249 1 | 3.15084117 1 | 2.5-8\| 2.2-7\| 1.4-6 | 4:07 |
| nsym-rd([10,10,10]) | 100 \| 3024; 0 | 300\| 5\| 68 \| | 2.44205193 0 | 2.44206746 0 | 1.4-8\| 3.4-7\| 2.6-6 | 01 |
| nsym-rd([15,15,15]) | 225 \| 14399; 0 | 300\| 8\| 157 \| | 2.48379241 0 | 2.48379267 0 | 6.8-9\| 4.2-8\| 4.4-8 | 03 |
| nsym-rd([20,20,20]) | 400 \| 44099; 0 | 300\|12\| 546 \| | 3.47771622 0 | 3.47771918 0 | 2.1-9\| 2.9-8\| 3.7-7 | 11 |
| nsym-rd([20,25,25]) | 500 \| 68249; 0 | 200\|13\| 654 \| | 2.78569252 0 | 2.78570681 0 | 3.5-9\| 1.4-7\| 2.2-6 | 15 |
| nsym-rd([25,20,25]) | 500 \| 68249; 0 | 200\| 8\| 268 \| | 2.77557151 0 | 2.77548454 0 | 9.0-9\| 8.4-7\| 1.3-5 | 12 |
| nsym-rd([25,25,20]) | 500 \| 68249; 0 | 200\|11\| 430 \| | 2.87657211 0 | 2.87657658 0 | 8.9-10\| 3.8-8\| 6.6-7 | 13 |
| nsym-rd([25,25,25]) | 625 \| 105624; 0 | 200\|21\| 1033 \| | 2.83000237 0 | 2.82999450 0 | 1.6-9\| 7.9-8\| 1.2-6 | 35 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $err_1/err_3/err_5$ | time |
|---|---|---|---|---|---|---|
| nsym-rd([30,30,30]) | 900 \| 216224; 0 | 200\|14\| 642 \| | 3.03775491 0 | 3.03774417 0 | 8.2-10\| 6.8-8\| 1.5-6 | 1:05 |
| nsym-rd([35,35,35]) | 1225 \| 396899; 0 | 200\|16\| 870 \| | 3.07047427 0 | 3.07047041 0 | 1.6-9\| 1.8-8\| 5.4-7 | 2:40 |
| nsym-rd([40,40,40]) | 1600 \| 672399; 0 | 200\|12\| 434 \| | 3.87873618 0 | 3.87875797 0 | 1.8-9\| 7.3-8\| 2.5-6 | 3:49 |
| nsym-rd([5,5,5,5]) | 125 \| 3374; 0 | 300\| 8\| 169 \| | 1.89465063 0 | 1.89465048 0 | 6.6-10\| 3.8-8\| 3.1-8 | 01 |
| nsym-rd([6,6,6,6]) | 216 \| 9260; 0 | 300\| 5\| 100 \| | 2.68232757 0 | 2.68235250 0 | 6.1-9\| 3.6-7\| 3.9-6 | 02 |
| nsym-rd([7,7,7,7]) | 343 \| 21951; 0 | 300\|10\| 320 \| | 3.33237064 0 | 3.33238459 0 | 1.1-8\| 1.2-7\| 1.8-6 | 05 |
| nsym-rd([8,8,8,8]) | 512 \| 46655; 0 | 200\| 9\| 284 \| | 2.83768813 0 | 2.83767866 0 | 2.5-9\| 7.5-8\| 1.4-6 | 12 |
| nsym-rd([9,9,9,9]) | 729 \| 91124; 0 | 200\| 8\| 182 \| | 3.10895020 0 | 3.10896673 0 | 1.2-9\| 9.8-8\| 2.3-6 | 22 |
| nonsym(12,4) | 1728 \| 474551; 0 | 200\|31\| 1707 \| | 5.92161989 0 | 5.92163746 0 | 1.2-9\| 3.6-8\| 1.4-6 | 6:33 |
| nonsym(13,4) | 2197 \| 753570; 0 | 200\|31\| 1797 \| | 7.27450744 0 | 7.27481715 0 | 1.3-8\| 4.6-7\| 2.0-5 | 11:23 |
| nonsym(14,4) | 2744 \| 1157624; 0 | 200\|34\| 1986 \| | 9.68805509 0 | 9.68793825 0 | 1.5-8\| 1.3-7\| 5.7-6 | 20:48 |
| nonsym(15,4) | 3375 \| 1727999; 0 | 200\|35\| 1968 \| | 1.33829148 1 | 1.33821837 1 | 1.9-8\| 4.8-7\| 2.6-5 | 35:08 |
| nonsym(7,5) | 2401 \| 614655; 0 | 200\|30\| 1698 \| | 5.10582800 0 | 5.10585352 0 | 3.3-9\| 5.1-8\| 2.3-6 | 14:21 |
| nonsym(8,5) | 4096 \| 1679615; 0 | 200\|31\| 1520 \| | 5.77854638 0 | 5.77822296 0 | 1.8-8\| 4.4-7\| 2.6-5 | 49:02 |
| nonsym(18,4) | 5832 \| 5000210; 0 | 200\|35\| 1847 \| | 1.53963215 1 | 1.53960275 1 | 2.0-8\| 1.3-7\| 9.2-6 | 2:07:40 |
| nonsym(20,4) | 8000 \| 9260999; 0 | 200\|37\| 1730 \| | 1.77231054 1 | 1.77229926 1 | 6.3-9\| 3.6-8\| 3.1-6 | 5:08:46 |
| nonsym(21,4) | 9261 \| 12326390; 0 | 200\|37\| 1737 \| | 2.03462751 1 | 2.03441723 1 | 1.8-8\| 5.4-7\| 5.0-5 | 7:19:16 |
| ext-be100.1 | 101 \| 101;14850 | 3100\|455\| 27860 \| | -1.95407033 4 | -1.95407514 4 | 4.2-7\| 9.9-7\| 1.2-6 | 49 |
| ext-be100.2 | 101 \| 101;14850 | 2227\|291\| 17419 \| | -1.74937363 4 | -1.74937547 4 | 5.1-7\| 8.7-7\| 5.3-7 | 33 |
| ext-be100.3 | 101 \| 101;14850 | 2800\|423\| 24553 \| | -1.76818602 4 | -1.76818568 4 | 3.4-7\| 8.8-7\| 9.8-8 | 43 |
| ext-be100.4 | 101 \| 101;14850 | 2800\|376\| 22924 \| | -1.93202591 4 | -1.93202255 4 | 3.6-7\| 9.9-7\| 8.7-7 | 39 |
| ext-be100.5 | 101 \| 101;14850 | 2004\|221\| 13152 \| | -1.62531081 4 | -1.62530641 4 | 3.3-7\| 9.9-7\| 1.4-6 | 26 |
| ext-be100.6 | 101 \| 101;14850 | 2350\|303\| 18360 \| | -1.75793629 4 | -1.75793934 4 | 3.0-7\| 5.7-7\| 8.7-7 | 32 |
| ext-be100.7 | 101 \| 101;14850 | 2669\|408\| 22522 \| | -1.89201340 4 | -1.89201078 4 | 8.2-7\| 9.1-7\| 6.9-7 | 43 |
| ext-be100.8 | 101 \| 101;14850 | 2500\|355\| 19847 \| | -1.91440190 4 | -1.91440145 4 | 5.1-7\| 9.7-7\| 1.2-7 | 35 |
| ext-be100.9 | 101 \| 101;14850 | 1983\|263\| 14335 \| | -1.38098479 4 | -1.38098437 4 | 6.6-7\| 9.4-7\| 1.5-7 | 27 |
| ext-be100.10 | 101 \| 101;14850 | 2050\|302\| 15706 \| | -1.57241217 4 | -1.57241164 4 | 5.9-7\| 6.6-7\| 1.7-7 | 28 |
| ext-be120.3.1 | 121 \| 121;21420 | 4067\|575\| 33395 \| | -1.33433940 4 | -1.33433469 4 | 9.1-7\| 9.3-7\| 1.8-6 | 1:12 |
| ext-be120.3.2 | 121 \| 121;21420 | 2552\|363\| 20905 \| | -1.31635451 4 | -1.31635639 4 | 6.7-7\| 9.6-7\| 7.1-7 | 46 |
| ext-be120.3.3 | 121 \| 121;21420 | 2400\|329\| 18771 \| | -1.26096739 4 | -1.26096717 4 | 9.9-7\| 8.2-7\| 9.0-8 | 42 |
| ext-be120.3.4 | 121 \| 121;21420 | 3165\|545\| 29018 \| | -1.40395419 4 | -1.40395317 4 | 9.4-7\| 8.6-7\| 3.6-7 | 1:10 |
| ext-be120.3.5 | 121 \| 121;21420 | 2500\|335\| 19473 \| | -1.15584863 4 | -1.15585226 4 | 2.7-7\| 8.2-7\| 1.6-6 | 44 |
| ext-be120.3.6 | 121 \| 121;21420 | 3550\|535\| 30431 \| | -1.30222578 4 | -1.30222493 4 | 4.2-7\| 5.7-7\| 3.3-7 | 1:05 |
| ext-be120.3.7 | 121 \| 121;21420 | 3797\|574\| 34487 \| | -1.41283726 4 | -1.41283392 4 | 9.2-7\| 9.5-7\| 1.2-6 | 1:12 |
| ext-be120.3.8 | 121 \| 121;21420 | 3100\|425\| 26192 \| | -1.48122281 4 | -1.48122071 4 | 4.0-7\| 9.7-7\| 7.1-7 | 56 |
| ext-be120.3.9 | 121 \| 121;21420 | 2655\|425\| 22106 \| | -1.08238522 4 | -1.08238732 4 | 2.3-7\| 8.2-7\| 9.7-7 | 49 |
| ext-be120.3.10 | 121 \| 121;21420 | 3049\|387\| 24395 \| | -1.24128119 4 | -1.24127611 4 | 9.3-7\| 8.9-7\| 2.0-6 | 53 |
| ext-be120.8.1 | 121 \| 121;21420 | 1750\|217\| 12382 \| | -1.93896340 4 | -1.93896531 4 | 2.7-7\| 9.6-7\| 4.9-7 | 29 |
| ext-be120.8.2 | 121 \| 121;21420 | 2350\|319\| 18583 \| | -1.93509940 4 | -1.93510036 4 | 3.1-7\| 8.1-7\| 2.5-7 | 41 |
| ext-be120.8.3 | 121 \| 121;21420 | 2200\|307\| 17228 \| | -1.97909354 4 | -1.97909131 4 | 3.2-7\| 8.2-7\| 5.6-7 | 39 |
| ext-be120.8.4 | 121 \| 121;21420 | 3294\|472\| 27225 \| | -2.10631512 4 | -2.10630674 4 | 8.5-7\| 9.3-7\| 2.0-6 | 59 |
| ext-be120.8.5 | 121 \| 121;21420 | 2950\|400\| 23717 \| | -2.06772911 4 | -2.06773355 4 | 2.9-7\| 9.2-7\| 1.1-6 | 52 |
| ext-be120.8.6 | 121 \| 121;21420 | 2650\|303\| 18879 \| | -1.89540687 4 | -1.89539932 4 | 2.0-7\| 9.9-7\| 2.0-6 | 43 |
| ext-be120.8.7 | 121 \| 121;21420 | 2800\|403\| 22521 \| | -2.27769704 4 | -2.27769216 4 | 4.4-7\| 9.8-7\| 1.1-6 | 50 |
| ext-be120.8.8 | 121 \| 121;21420 | 2490\|307\| 17819 \| | -2.03563168 4 | -2.03563297 4 | 9.9-7\| 9.9-7\| 3.2-7 | 43 |
| ext-be120.8.9 | 121 \| 121;21420 | 2290\|270\| 16376 \| | -1.86846719 4 | -1.86846789 4 | 8.0-7\| 9.9-7\| 1.9-7 | 38 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| ext-be120.8.10 | 121 \| 121;21420 | 2350\|321\| 18266 \| | -1.93803459 4 | -1.93803012 4 | 1.8-7\| 9.8-7\| 1.2-6 | 41 |
| ext-be150.3.1 | 151 \| 151;33525 | 2983\|422\| 24854 \| | -1.92019659 4 | -1.92018983 4 | 9.0-7\| 9.4-7\| 1.8-6 | 1:17 |
| ext-be150.3.2 | 151 \| 151;33525 | 2450\|294\| 18217 \| | -1.82000430 4 | -1.82000792 4 | 8.5-7\| 9.9-7\| 9.9-7 | 59 |
| ext-be150.3.3 | 151 \| 151;33525 | 2405\|303\| 18668 \| | -1.75098243 4 | -1.75097446 4 | 9.9-7\| 8.6-7\| 2.3-6 | 59 |
| ext-be150.3.4 | 151 \| 151;33525 | 3400\|524\| 29795 \| | -2.00795794 4 | -2.00796297 4 | 4.6-7\| 9.3-7\| 1.3-6 | 1:30 |
| ext-be150.3.5 | 151 \| 151;33525 | 2425\|346\| 19400 \| | -1.72161108 4 | -1.72160925 4 | 7.0-7\| 9.9-7\| 5.3-7 | 1:01 |
| ext-be150.3.6 | 151 \| 151;33525 | 2190\|282\| 16626 \| | -1.73854338 4 | -1.73854136 4 | 2.9-7\| 9.5-7\| 5.8-7 | 54 |
| ext-be150.3.7 | 151 \| 151;33525 | 3570\|564\| 30987 \| | -1.83845722 4 | -1.83845125 4 | 7.8-7\| 9.3-7\| 1.6-6 | 1:35 |
| ext-be150.3.8 | 151 \| 151;33525 | 2800\|385\| 22121 \| | -1.89086208 4 | -1.89086073 4 | 3.3-7\| 9.4-7\| 3.6-7 | 1:10 |
| ext-be150.3.9 | 151 \| 151;33525 | 2235\|288\| 15519 \| | -1.36095180 4 | -1.36095290 4 | 8.7-7\| 9.1-7\| 4.1-7 | 53 |
| ext-be150.3.10 | 151 \| 151;33525 | 2939\|424\| 24362 \| | -1.85218457 4 | -1.85218105 4 | 9.5-7\| 7.6-7\| 9.5-7 | 1:16 |
| ext-be150.8.1 | 151 \| 151;33525 | 2217\|283\| 15768 \| | -2.80513373 4 | -2.80512575 4 | 7.3-7\| 9.3-7\| 1.4-6 | 53 |
| ext-be150.8.2 | 151 \| 151;33525 | 2230\|297\| 17089 \| | -2.77959522 4 | -2.77959735 4 | 9.9-7\| 8.8-7\| 3.8-7 | 56 |
| ext-be150.8.3 | 151 \| 151;33525 | 3208\|463\| 26556 \| | -3.02020687 4 | -3.02020086 4 | 6.5-7\| 9.5-7\| 9.9-7 | 1:23 |
| ext-be150.8.4 | 151 \| 151;33525 | 2500\|351\| 19611 \| | -2.76849956 4 | -2.76850297 4 | 3.0-7\| 3.6-7\| 6.2-7 | 1:03 |
| ext-be150.8.5 | 151 \| 151;33525 | 2600\|370\| 20696 \| | -2.86335084 4 | -2.86335837 4 | 4.7-7\| 9.9-7\| 1.3-6 | 1:06 |
| ext-be150.8.6 | 151 \| 151;33525 | 2350\|299\| 17153 \| | -3.01931057 4 | -3.01930109 4 | 2.2-7\| 9.9-7\| 1.6-6 | 56 |
| ext-be150.8.7 | 151 \| 151;33525 | 3185\|407\| 25286 \| | -3.20855031 4 | -3.20855241 4 | 9.5-7\| 7.5-7\| 3.3-7 | 1:19 |
| ext-be150.8.8 | 151 \| 151;33525 | 2650\|359\| 20951 \| | -3.04918846 4 | -3.04919412 4 | 3.3-7\| 9.9-7\| 9.3-7 | 1:07 |
| ext-be150.8.9 | 151 \| 151;33525 | 2436\|352\| 19379 \| | -2.63143762 4 | -2.63143453 4 | 3.6-7\| 9.5-7\| 5.9-7 | 1:03 |
| ext-be150.8.10 | 151 \| 151;33525 | 2100\|267\| 15663 \| | -2.91252435 4 | -2.91252328 4 | 4.2-7\| 8.9-7\| 1.8-7 | 52 |
| ext-be200.3.1 | 201 \| 201;59700 | 2500\|355\| 19383 \| | -2.67725456 4 | -2.67725029 4 | 3.3-7\| 7.9-7\| 8.0-7 | 1:38 |
| ext-be200.3.2 | 201 \| 201;59700 | 3290\|447\| 25934 \| | -2.59943356 4 | -2.59943512 4 | 5.1-7\| 9.8-7\| 3.0-7 | 2:14 |
| ext-be200.3.3 | 201 \| 201;59700 | 3229\|462\| 27282 \| | -2.86442852 4 | -2.86441725 4 | 4.8-7\| 9.9-7\| 2.0-6 | 2:12 |
| ext-be200.3.4 | 201 \| 201;59700 | 3489\|450\| 28084 \| | -2.82327366 4 | -2.82326906 4 | 6.2-7\| 9.4-7\| 8.2-7 | 2:18 |
| ext-be200.3.5 | 201 \| 201;59700 | 2455\|324\| 18826 \| | -2.71699122 4 | -2.71698460 4 | 8.0-7\| 9.7-7\| 1.2-6 | 1:36 |
| ext-be200.3.6 | 201 \| 201;59700 | 2834\|384\| 22005 \| | -2.70594959 4 | -2.70594946 4 | 9.9-7\| 9.8-7\| 2.3-8 | 1:52 |
| ext-be200.3.7 | 201 \| 201;59700 | 3538\|493\| 30820 \| | -3.08045372 4 | -3.08045266 4 | 8.8-7\| 9.5-7\| 1.7-7 | 2:27 |
| ext-be200.3.8 | 201 \| 201;59700 | 3171\|463\| 26653 \| | -2.82683078 4 | -2.82682259 4 | 9.2-7\| 9.9-7\| 1.4-6 | 2:09 |
| ext-be200.3.9 | 201 \| 201;59700 | 3045\|401\| 22969 \| | -2.56474117 4 | -2.56474506 4 | 9.4-8\| 9.9-7\| 7.6-7 | 1:58 |
| ext-be200.3.10 | 201 \| 201;59700 | 3021\|371\| 22477 \| | -2.49627198 4 | -2.49627065 4 | 9.2-7\| 7.4-7\| 2.6-7 | 1:59 |
| ext-be200.8.1 | 201 \| 201;59700 | 3485\|476\| 29206 \| | -4.95597755 4 | -4.95598527 4 | 9.4-7\| 9.9-7\| 7.8-7 | 2:22 |
| ext-be200.8.2 | 201 \| 201;59700 | 2570\|342\| 20120 \| | -4.28172311 4 | -4.28173338 4 | 2.1-7\| 5.9-7\| 1.2-6 | 1:49 |
| ext-be200.8.3 | 201 \| 201;59700 | 3492\|485\| 28371 \| | -4.49801249 4 | -4.49800178 4 | 8.9-7\| 7.6-7\| 1.2-6 | 2:23 |
| ext-be200.8.4 | 201 \| 201;59700 | 2950\|392\| 23383 \| | -4.51062139 4 | -4.51064022 4 | 8.7-8\| 9.9-7\| 2.1-6 | 1:57 |
| ext-be200.8.5 | 201 \| 201;59700 | 3312\|468\| 27244 \| | -4.30189640 4 | -4.30190167 4 | 8.0-7\| 9.8-7\| 6.1-7 | 2:14 |
| ext-be200.8.6 | 201 \| 201;59700 | 3914\|575\| 34901 \| | -5.00117020 4 | -5.00116341 4 | 9.5-7\| 7.7-7\| 6.8-7 | 2:45 |
| ext-be200.8.7 | 201 \| 201;59700 | 2834\|399\| 23400 \| | -4.80696206 4 | -4.80696126 4 | 9.9-7\| 9.9-7\| 8.3-8 | 1:53 |
| ext-be200.8.8 | 201 \| 201;59700 | 3532\|387\| 26716 \| | -4.62647133 4 | -4.62646827 4 | 9.2-7\| 8.3-7\| 3.3-7 | 2:10 |
| ext-be200.8.9 | 201 \| 201;59700 | 3203\|383\| 24230 \| | -4.42546161 4 | -4.42546910 4 | 9.5-7\| 9.8-7\| 8.5-7 | 2:01 |
| ext-be200.8.10 | 201 \| 201;59700 | 2220\|279\| 16086 \| | -4.42300353 4 | -4.42301526 4 | 1.2-7\| 6.1-7\| 1.3-6 | 1:23 |
| ext-be250.1 | 251 \| 251;93375 | 6198\|915\| 57272 \| | -2.43464506 4 | -2.43464070 4 | 7.7-7\| 9.8-7\| 9.0-7 | 6:24 |
| ext-be250.2 | 251 \| 251;93375 | 3280\|428\| 26038 \| | -2.29141899 4 | -2.29141603 4 | 5.6-7\| 9.9-7\| 6.4-7 | 3:14 |
| ext-be250.3 | 251 \| 251;93375 | 7300\|1105\| 67500 \| | -2.32027695 4 | -2.32026840 4 | 1.8-7\| 9.1-7\| 1.8-6 | 7:35 |
| ext-be250.4 | 251 \| 251;93375 | 5259\|804\| 49776 \| | -2.49165436 4 | -2.49164805 4 | 9.0-7\| 9.6-7\| 1.3-6 | 5:32 |
| ext-be250.5 | 251 \| 251;93375 | 3062\|417\| 22869 \| | -2.16230551 4 | -2.16230178 4 | 9.9-7\| 9.9-7\| 8.6-7 | 2:55 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| ext-be250.6 | 251 \| 251;93375 | 3550\|557\| 31631 \| | -2.31972414 4 | -2.31972026 4 | 5.8-7\| 7.1-7\| 8.4-7 | 3:45 |
| ext-be250.7 | 251 \| 251;93375 | 5725\|871\| 53486 \| | -2.43126268 4 | -2.43125586 4 | 9.3-7\| 8.0-7\| 1.4-6 | 6:01 |
| ext-be250.8 | 251 \| 251;93375 | 4642\|656\| 40893 \| | -2.42032658 4 | -2.42032210 4 | 9.9-7\| 7.8-7\| 9.2-7 | 4:45 |
| ext-be250.9 | 251 \| 251;93375 | 4658\|592\| 37129 \| | -2.05761234 4 | -2.05760823 4 | 2.0-7\| 9.9-7\| 9.9-7 | 4:39 |
| ext-be250.10 | 251 \| 251;93375 | 3926\|561\| 34046 \| | -2.35799257 4 | -2.35798703 4 | 9.2-7\| 8.8-7\| 1.2-6 | 4:12 |
| ext-bqp50-1 | 51 \| 51;3675 | 600\| 0\| 1307 \| | -2.09800019 3 | -2.09800018 3 | 9.9-7\| 4.1-8\| 1.9-9 | 02 |
| ext-bqp50-2 | 51 \| 51;3675 | 451\| 0\| 436 \| | -3.70200005 3 | -3.70200071 3 | 9.9-7\| 1.5-7\| 9.0-8 | 02 |
| ext-bqp50-3 | 51 \| 51;3675 | 421\| 0\| 274 \| | -4.62600016 3 | -4.62602435 3 | 3.8-8\| 6.4-7\| 2.6-6 | 01 |
| ext-bqp50-4 | 51 \| 51;3675 | 532\| 0\| 760 \| | -3.54400037 3 | -3.54402129 3 | 4.6-7\| 6.1-7\| 3.0-6 | 02 |
| ext-bqp50-5 | 51 \| 51;3675 | 444\| 0\| 301 \| | -4.01199942 3 | -4.01197549 3 | 7.5-7\| 7.8-7\| 3.0-6 | 01 |
| ext-bqp50-6 | 51 \| 51;3675 | 550\| 8\| 1169 \| | -3.69300000 3 | -3.69300454 3 | 3.6-7\| 6.8-7\| 6.2-7 | 02 |
| ext-bqp50-7 | 51 \| 51;3675 | 1074\|63\| 4911 \| | -4.52000000 3 | -4.51999994 3 | 9.9-7\| 4.6-8\| 6.1-9 | 06 |
| ext-bqp50-8 | 51 \| 51;3675 | 679\|15\| 1298 \| | -4.21600052 3 | -4.21601577 3 | 2.3-7\| 3.8-7\| 1.8-6 | 03 |
| ext-bqp50-9 | 51 \| 51;3675 | 746\|15\| 1578 \| | -3.78000084 3 | -3.77998724 3 | 3.0-7\| 3.2-7\| 1.8-6 | 03 |
| ext-bqp50-10 | 51 \| 51;3675 | 765\|68\| 3166 \| | -3.50699998 3 | -3.50700002 3 | 9.9-7\| 1.1-8\| 5.5-9 | 04 |
| ext-bqp100-1 | 101 \| 101;14850 | 3038\|381\| 24009 \| | -8.03665950 3 | -8.03666930 3 | 5.4-7\| 9.6-7\| 6.1-7 | 42 |
| ext-bqp100-2 | 101 \| 101;14850 | 5823\|897\| 47616 \| | -1.10359980 4 | -1.10359900 4 | 9.2-7\| 1.8-7\| 3.6-7 | 1:25 |
| ext-bqp100-3 | 101 \| 101;14850 | 1076\|60\| 4269 \| | -1.27230007 4 | -1.27231024 4 | 9.9-7\| 7.6-7\| 4.0-6 | 11 |
| ext-bqp100-4 | 101 \| 101;14850 | 700\|59\| 2750 \| | -1.03680000 4 | -1.03679988 4 | 1.5-8\| 2.5-8\| 5.7-8 | 08 |
| ext-bqp100-5 | 101 \| 101;14850 | 1569\|136\| 8982 \| | -9.08299551 3 | -9.08290394 3 | 6.8-7\| 9.2-7\| 5.0-6 | 19 |
| ext-bqp100-6 | 101 \| 101;14850 | 3370\|430\| 28060 \| | -1.03415252 4 | -1.03415181 4 | 9.9-7\| 6.4-7\| 3.4-7 | 49 |
| ext-bqp100-7 | 101 \| 101;14850 | 4976\|804\| 50059 \| | -1.01594237 4 | -1.01594233 4 | 3.6-7\| 9.9-7\| 1.7-8 | 1:25 |
| ext-bqp100-8 | 101 \| 101;14850 | 1085\|71\| 4807 \| | -1.14350000 4 | -1.14349968 4 | 3.6-7\| 9.9-7\| 1.4-7 | 12 |
| ext-bqp100-9 | 101 \| 101;14850 | 700\|26\| 1967 \| | -1.14550017 4 | -1.14550630 4 | 1.4-7\| 3.6-7\| 2.7-6 | 07 |
| ext-bqp100-10 | 101 \| 101;14850 | 1230\|98\| 5613 \| | -1.25650010 4 | -1.25649797 4 | 7.5-7\| 1.3-7\| 8.5-7 | 13 |
| ext-bqp250-1 | 251 \| 251;93375 | 4520\|649\| 40263 \| | -4.62427950 4 | -4.62425854 4 | 9.6-7\| 9.9-7\| 2.3-6 | 4:38 |
| ext-bqp250-2 | 251 \| 251;93375 | 4150\|636\| 37680 \| | -4.55843994 4 | -4.55843160 4 | 2.4-7\| 9.7-7\| 9.2-7 | 4:29 |
| ext-bqp250-3 | 251 \| 251;93375 | 5524\|712\| 47476 \| | -4.94557800 4 | -4.94556072 4 | 7.9-7\| 9.9-7\| 1.7-6 | 5:44 |
| ext-bqp250-4 | 251 \| 251;93375 | 4530\|575\| 35070 \| | -4.20082193 4 | -4.20081668 4 | 5.8-7\| 9.9-7\| 6.2-7 | 4:28 |
| ext-bqp250-5 | 251 \| 251;93375 | 5159\|732\| 47123 \| | -4.84302537 4 | -4.84301485 4 | 7.3-7\| 9.5-7\| 1.1-6 | 6:48 |
| ext-bqp250-6 | 251 \| 251;93375 | 4634\|660\| 39120 \| | -4.22406450 4 | -4.22405919 4 | 6.0-7\| 9.9-7\| 6.3-7 | 4:49 |
| ext-bqp250-7 | 251 \| 251;93375 | 4750\|768\| 46122 \| | -4.73766583 4 | -4.73764820 4 | 1.8-7\| 9.6-7\| 1.9-6 | 5:24 |
| ext-bqp250-8 | 251 \| 251;93375 | 3550\|574\| 29542 \| | -3.74646721 4 | -3.74646787 4 | 2.9-7\| 7.4-7\| 8.8-8 | 3:42 |
| ext-bqp250-9 | 251 \| 251;93375 | 5114\|716\| 45919 \| | -4.96951386 4 | -4.96950696 4 | 9.4-7\| 9.0-7\| 6.9-7 | 5:31 |
| ext-bqp250-10 | 251 \| 251;93375 | 3451\|470\| 28007 \| | -4.15004265 4 | -4.15003804 4 | 3.5-7\| 9.9-7\| 5.6-7 | 3:32 |
| ext-gka1a | 51 \| 51;3675 | 866\|18\| 1934 \| | -3.41400081 3 | -3.41400078 3 | 9.1-7\| 5.7-9\| 3.4-9 | 03 |
| ext-gka2a | 61 \| 61;5310 | 676\|15\| 1207 \| | -6.06300100 3 | -6.06296746 3 | 3.0-7\| 5.4-7\| 2.8-6 | 03 |
| ext-gka3a | 71 \| 71;7245 | 6489\|872\| 64222 \| | -6.04722320 3 | -6.04721783 3 | 5.4-7\| 9.9-7\| 4.4-7 | 59 |
| ext-gka4a | 81 \| 81;9480 | 1169\|65\| 4383 \| | -8.59799982 3 | -8.59800225 3 | 5.2-7\| 8.1-7\| 1.4-7 | 10 |
| ext-gka5a | 51 \| 51;3675 | 850\|59\| 3211 \| | -5.73700019 3 | -5.73701372 3 | 3.1-8\| 1.9-7\| 1.2-6 | 04 |
| ext-gka6a | 31 \| 31;1305 | 577\|32\| 906 \| | -3.97999992 3 | -3.97998010 3 | 7.0-8\| 6.9-7\| 2.5-6 | 01 |
| ext-gka7a | 31 \| 31;1305 | 354\| 0\| 344 \| | -4.54099899 3 | -4.54097079 3 | 1.1-7\| 8.1-7\| 3.1-6 | 01 |
| ext-gka8a | 101 \| 101;14850 | 910\|41\| 3530 \| | -1.11089999 4 | -1.11090031 4 | 3.2-9\| 2.2-8\| 1.4-7 | 09 |
| ext-gka1b | 21 \| 21; 570 | 126\| 0\| 60 \| | -1.33000032 2 | -1.32999945 2 | 6.8-7\| 9.2-7\| 3.3-7 | 00 |
| ext-gka2b | 31 \| 31;1305 | 728\|50\| 2107 \| | -1.21000394 2 | -1.20999836 2 | 3.8-7\| 9.0-7\| 2.3-6 | 02 |
| ext-gka3b | 41 \| 41;2340 | 317\| 0\| 36 \| | -1.17998988 2 | -1.17999975 2 | 3.1-7\| 4.7-7\| 4.2-6 | 01 |

| problem | $n$ \| $m$; $p$ | it. | primal obj | dual obj | $\text{err}_1/\text{err}_3/\text{err}_5$ | time |
|---|---|---|---|---|---|---|
| ext-gka4b | 51 \| 51;3675 | 351\| 0\| 36 \| | -1.28999227 2 | -1.28999901 2 | 3.6-7\| 4.5-7\| 2.6-6 | 01 |
| ext-gka5b | 61 \| 61;5310 | 343\| 0\| 25 \| | -1.50000897 2 | -1.49999911 2 | 1.7-7\| 7.6-7\| 3.3-6 | 01 |
| ext-gka6b | 71 \| 71;7245 | 359\| 0\| 32 \| | -1.45997490 2 | -1.46000018 2 | 3.7-7\| 7.7-7\| 8.6-6 | 01 |
| ext-gka7b | 81 \| 81;9480 | 487\| 0\| 282 \| | -1.59997560 2 | -1.60000002 2 | 5.2-7\| 3.9-7\| 7.6-6 | 03 |
| ext-gka8b | 91 \| 91;12015 | 454\| 0\| 158 \| | -1.44997126 2 | -1.45000014 2 | 4.9-7\| 6.0-8\| 9.9-6 | 03 |
| ext-gka9b | 101 \| 101;14850 | 700\|30\| 1479 \| | -1.36999238 2 | -1.36998662 2 | 1.2-7\| 5.3-7\| 2.1-6 | 06 |
| ext-gka10b | 126 \| 126;23250 | 17850\|951\| 84491 \| | -1.54725786 2 | -1.54730185 2 | 5.5-7\| 7.0-7\| 1.4-5 | 4:17 |
| ext-gka1c | 41 \| 41;2340 | 573\|15\| 573 \| | -5.05799996 3 | -5.05800162 3 | 3.0-9\| 8.3-7\| 1.6-7 | 02 |
| ext-gka2c | 51 \| 51;3675 | 660\|15\| 1228 \| | -6.21300012 3 | -6.21303058 3 | 1.6-7\| 5.6-7\| 2.5-6 | 02 |
| ext-gka3c | 61 \| 61;5310 | 725\|15\| 1753 \| | -6.66500046 3 | -6.66503685 3 | 4.6-7\| 5.8-7\| 2.7-6 | 03 |
| ext-gka4c | 71 \| 71;7245 | 888\|87\| 4216 \| | -7.39800084 3 | -7.39798393 3 | 3.1-7\| 3.1-7\| 1.1-6 | 06 |
| ext-gka5c | 81 \| 81;9480 | 700\|57\| 2718 \| | -7.36200003 3 | -7.36200109 3 | 3.6-9\| 1.1-8\| 7.2-8 | 06 |
| ext-gka6c | 91 \| 91;12015 | 1340\|57\| 5239 \| | -5.82399972 3 | -5.82399133 3 | 6.9-7\| 1.4-7\| 7.2-7 | 11 |
| ext-gka7c | 101 \| 101;14850 | 877\|15\| 2725 \| | -7.22500041 3 | -7.22497305 3 | 1.3-7\| 3.3-7\| 1.9-6 | 09 |
| ext-gka1d | 101 \| 101;14850 | 1025\|53\| 4246 \| | -6.33300003 3 | -6.33301242 3 | 1.9-7\| 1.8-7\| 9.8-7 | 11 |
| ext-gka2d | 101 \| 101;14850 | 1897\|237\| 14258 \| | -6.72128443 3 | -6.72128853 3 | 5.1-7\| 9.9-7\| 3.1-7 | 27 |
| ext-gka3d | 101 \| 101;14850 | 3041\|423\| 24271 \| | -9.36069112 3 | -9.36067708 3 | 3.0-7\| 9.4-7\| 7.5-7 | 42 |
| ext-gka4d | 101 \| 101;14850 | 2301\|301\| 17976 \| | -1.08761141 4 | -1.08761024 4 | 4.5-7\| 9.2-7\| 5.4-7 | 32 |
| ext-gka5d | 101 \| 101;14850 | 2470\|318\| 18169 \| | -1.19657682 4 | -1.19657431 4 | 7.9-7\| 9.4-7\| 1.0-6 | 34 |
| ext-gka6d | 101 \| 101;14850 | 4000\|606\| 36880 \| | -1.43919769 4 | -1.43919810 4 | 3.6-7\| 9.2-7\| 1.4-7 | 1:01 |
| ext-gka7d | 101 \| 101;14850 | 2500\|353\| 20178 \| | -1.48242814 4 | -1.48242696 4 | 4.3-7\| 7.3-7\| 4.0-7 | 35 |
| ext-gka8d | 101 \| 101;14850 | 2733\|369\| 22570 \| | -1.64885005 4 | -1.64885449 4 | 5.5-7\| 9.7-7\| 1.3-6 | 39 |
| ext-gka9d | 101 \| 101;14850 | 2380\|304\| 17719 \| | -1.59885851 4 | -1.59885595 4 | 6.0-7\| 9.7-7\| 8.0-7 | 33 |
| ext-gka10d | 101 \| 101;14850 | 2350\|335\| 19541 \| | -1.94447111 4 | -1.94446562 4 | 6.0-7\| 9.7-7\| 1.4-6 | 35 |
| ext-gka1e | 201 \| 201;59700 | 9445\|1339\| 92044 \| | -1.65549752 4 | -1.65549271 4 | 2.1-7\| 9.9-7\| 1.5-6 | 7:45 |
| ext-gka2e | 201 \| 201;59700 | 2908\|391\| 23334 \| | -2.40405480 4 | -2.40405481 4 | 9.8-7\| 9.4-7\| 1.6-9 | 2:12 |
| ext-gka3e | 201 \| 201;59700 | 3100\|496\| 26665 \| | -2.60250624 4 | -2.60250489 4 | 2.9-7\| 6.2-7\| 2.6-7 | 2:26 |
| ext-gka4e | 201 \| 201;59700 | 3550\|536\| 31976 \| | -3.61558865 4 | -3.61559562 4 | 2.4-7\| 8.2-7\| 9.6-7 | 2:51 |
| ext-gka5e | 201 \| 201;59700 | 3031\|410\| 24094 \| | -3.66285604 4 | -3.66285851 4 | 9.2-7\| 7.6-7\| 3.4-7 | 2:16 |
| ext-gka1f | 501 \| 501;374250 | 4284\|567\| 31939 \| | -6.38467060 4 | -6.38465931 4 | 5.5-7\| 9.9-7\| 8.8-7 | 21:56 |
| ext-gka2f | 501 \| 501;374250 | 6487\|830\| 49721 \| | -1.05205505 5 | -1.05205532 5 | 3.0-7\| 9.9-7\| 1.3-7 | 33:43 |
| ext-gka3f | 501 \| 501;374250 | 6874\|728\| 49815 \| | -1.46096426 5 | -1.46096139 5 | 7.3-7\| 9.9-7\| 9.8-7 | 33:43 |
| ext-gka4f | 501 \| 501;374250 | 8282\|1055\| 64079 \| | -1.82012635 5 | -1.82012390 5 | 7.4-7\| 9.9-7\| 6.7-7 | 43:01 |
| ext-gka5f | 501 \| 501;374250 | 6520\|847\| 49547 \| | -2.02134168 5 | -2.02133751 5 | 9.9-7\| 9.7-7\| 1.0-6 | 33:31 |
| ext-bqp500-1 | 501 \| 501;374250 | 5230\|370\| 32585 \| | -1.22595466 5 | -1.22595445 5 | 6.3-7\| 9.5-7\| 8.7-8 | 23:14 |
| ext-bqp500-2 | 501 \| 501;374250 | 8051\|1018\| 62143 \| | -1.32727794 5 | -1.32727656 5 | 1.2-7\| 9.7-7\| 5.2-7 | 42:08 |
| ext-bqp500-3 | 501 \| 501;374250 | 6128\|774\| 45255 \| | -1.34793459 5 | -1.34793022 5 | 9.8-7\| 9.9-7\| 1.6-6 | 31:30 |
| ext-bqp500-4 | 501 \| 501;374250 | 6441\|656\| 45741 \| | -1.35482424 5 | -1.35482257 5 | 9.6-7\| 9.9-7\| 6.2-7 | 31:15 |
| ext-bqp500-5 | 501 \| 501;374250 | 6236\|777\| 46177 \| | -1.30298979 5 | -1.30299216 5 | 9.4-7\| 9.9-7\| 9.1-7 | 32:31 |
| ext-bqp500-6 | 501 \| 501;374250 | 7007\|863\| 52026 \| | -1.27203896 5 | -1.27203819 5 | 9.7-7\| 9.9-7\| 3.0-7 | 35:38 |
| ext-bqp500-7 | 501 \| 501;374250 | 7338\|930\| 55527 \| | -1.27936822 5 | -1.27936673 5 | 6.4-7\| 9.9-7\| 5.8-7 | 38:53 |
| ext-bqp500-8 | 501 \| 501;374250 | 9718\|701\| 67792 \| | -1.29567736 5 | -1.29567409 5 | 6.8-7\| 9.9-7\| 1.3-6 | 46:58 |
| ext-bqp500-9 | 501 \| 501;374250 | 6363\|661\| 43829 \| | -1.26715551 5 | -1.26715342 5 | 2.3-7\| 9.9-7\| 8.2-7 | 31:10 |
| ext-bqp500-10 | 501 \| 501;374250 | 6013\|749\| 44045 \| | -1.34976106 5 | -1.34975995 5 | 9.9-7\| 9.3-7\| 4.1-7 | 30:26 |