Table 1: Numerical results for the constrained optimization problems SCGMrf1 SCGMrf2 KD MTTLS SCGMrf3 SCGMrf-NG Problem/n $\mathrm{NI/NF/Time}/\|g^\star\|$ $NI/NF/Time/||g^*||$ $NI/NF/Time/||g^{\star}||$ $NI/NF/Time/||g^{\star}||$ $NI/NF/Time/||g^*||$ $NI/NF/Time/||g^*||$ $NI/NF/Time/||g^*||$ $\overline{25/104/0.023/5.73e-08}$ cosine/4070 27/113/0.037/2.22e-07 20/85/0.020/9.07e-07 26/90/0.019/4.35e-07 27/100/0.020/8.37e-07 34/107/0.022/1.13e-0773/296/0.052/8.02e-07 39/146/0.202/3.62e-07cosine/4300027/94/0.133/2.04e-07 29/99/0.159/8.62e-07 37/118/0.176/1.19e-07587/1992/2.629/1.87e-07 19/84/0.131/7.93e-0741/122/0.179/1.76e-07 $16/87/1.525/8.36\mathrm{e}\text{-}07$ 20/102/2.235/8.62e-0718/90/1.585/6.28e-0717/89/2.131/8.14e-07 24/102/2.034/6.99e-0720/88/1.730/1.66e-07dixmaana/96000 15/85/1.499/3.74e-07dixmaana/120000 19/89/2.471/5.64e-07 22/94/2.800/7.96e-0722/92/2.133/8.62e-07 22/95/2.172/8.61e-08 19/90/1.950/7.59e-0723/95/2.190/2.03e-0720/95/2.061/1.01e-07 18/90/0.477/1.49e-07dixmaanb/24900 20/88/0.423/7.86e-0716/80/0.398/1.84e-0718/90/0.442/7.86e-0921/89/0.425/9.34e-07 21/108/0.526/7.76e-0725/94/0.459/6.57e-07 22/91/0.786/2.37e-07dixmaanb/4350020/89/0.725/4.80e-07 17/81/0.645/3.97e-0815/73/0.614/3.99e-0721/91/0.760/1.25e-0714/82/0.689/9.27e-0725/94/0.789/1.27e-07dixmaanb/53700 20/84/0.868/2.02e-0720/88/0.914/9.01e-0723/91/1.175/3.72e-07 23/93/0.981/8.81e-08 24/94/0.929/2.61e-07 19/87/0.845/3.28e-0722/90/0.911/5.12e-07dixmaanc/30300 18/93/0.563/9.86e-07 16/81/0.484/3.45e-0719/89/0.506/6.28e-0720/101/0.578/2.95e-07 22/92/0.540/4.40e-0719/90/0.513/3.69e-0725/96/0.573/4.56e-0717/91/2.539/4.36e-07 28/102/3.218/7.38e-07 dixmaanc/15000017/91/2.628/4.53e-07 17/89/2.472/9.37e-0716/89/2.515/8.48e-0723/95/2.706/2.41e-0720/92/2.697/3.13e-0816/90/4.999/6.69e-0725/97/5.943/3.69e-07 dixmaanc/300000 22/95/5.820/9.92e-07 21/94/5.531/3.97e-0722/95/5.253/8.99e-0722/95/5.430/8.41e-0722/104/5.992/7.37e-07dixmaand/300 21/93/0.029/8.34e-0814/71/0.010/5.25e-0715/73/0.008/8.34e-0721/93/0.011/1.98e-07 22/80/0.008/6.91e-0719/79/0.009/8.51e-0721/80/0.008/5.40e-07dixmaand/7200 20/87/0.152/4.23e-0716/79/0.131/9.95e-07 18/85/0.142/1.87e-0720/87/0.145/3.82e-0721/89/0.148/1.88e-07 18/87/0.156/3.26e-0722/91/0.165/2.22e-0718/86/0.254/1.51e-0718/87/0.267/8.72e-07 dixmaand/13650 17/85/0.256/1.04e-0819/82/0.246/9.60e-07 17/85/0.257/1.62e-0826/96/0.298/2.28e-0722/88/0.273/5.77e-07 92/198/0.032/9.08e-07dixmaane/90 89/182/0.018/8.41e-07 84/183/0.017/5.15e-07 108/238/0.018/6.98e-07 129/263/0.022/9.94e-07 92/172/0.011/2.53e-07 90/176/0.010/8.84e-07 496/1054/0.592/3.38e-07386/863/0.442/4.04e-07 379/687/0.333/8.77e-07 dixmaane/2100 425/863/0.474/7.56e-07 499/1074/0.549/8.09e-07 469/974/0.476/9.45e-07 325/625/0.326/6.84e-07 dixmaanf/6 22/70/0.017/4.69e-0721/72/0.001/7.39e-0723/71/0.001/9.63e-07 28/78/0.002/9.08e-07 34/87/0.002/2.85e-0722/69/0.001/8.26e-07 24/75/0.002/6.14e-07dixmaanf/15 40/95/0.003/6.01e-0740/92/0.002/6.58e-07 34/84/0.002/9.79e-0743/96/0.002/9.11e-07 54/111/0.002/9.21e-07 37/91/0.003/8.28e-07 41/99/0.003/4.24e-07 65/151/0.008/6.59e-0770/152/0.005/5.72e-07 dixmaanf/60 73/158/0.007/4.02e-0794/202/0.007/9.54e-07 79/176/0.007/8.25e-07 58/120/0.004/6.03e-07 64/126/0.005/9.14e-07 100/209/0.031/9.36e-07102/215/0.013/9.68e-0798/223/0.015/7.94e-07 dixmaang/150 95/216/0.014/8.80e-07 130/265/0.020/6.17e-0799/197/0.015/5.13e-07 98/189/0.013/8.97e-07 32/85/0.017/7.61e-0735/88/0.002/9.59e-07 dixmaanh/9 32/85/0.002/6.42e-0729/81/0.003/8.96e-07 40/106/0.002/5.26e-0733/84/0.002/9.98e-0737/92/0.002/7.99e-07dixmaanh/90 85/171/0.009/9.74e-07 74/158/0.009/9.45e-07 82/181/0.010/9.62e-07 75/155/0.008/6.91e-07 80/168/0.011/9.16e-07 81/180/0.008/9.67e-07 72/149/0.009/6.54e-07dixmaanh/150 100/223/0.023/9.11e-0791/202/0.015/8.04e-0793/210/0.016/8.33e-07120/264/0.017/9.80e-07 95/222/0.013/9.40e-07 90/190/0.021/9.04e-07100/211/0.021/9.30e-07dixmaani/9 72/165/0.021/8.53e-0783/174/0.003/4.48e-07 64/143/0.004/7.27e-0786/200/0.004/8.62e-07 102/223/0.005/7.04e-0778/166/0.003/8.10e-07 65/132/0.004/7.38e-07 dixmaanj/45 222/492/0.035/9.13e-07 295/659/0.022/8.84e-07 355/791/0.032/9.07e-07 321/700/0.023/7.06e-07 291/534/0.029/4.75e-07 575/1181/0.053/8.02e-07 317/607/0.026/6.11e-07 dixmaank/3000 NaN/NaN/NaN/NaN NaN/NaN/NaN/NaN 294/637/0.424/8.52e-07 661/1482/0.984/9.06e-07 1320/2841/1.855/9.26e-07 1574/3087/2.034/7.75e-07 NaN/NaN/NaN/NaN dixmaank/6000 466/986/1.439/8.94e-07 490/994/1.434/9.16e-07 393/868/1.153/9.25e-07 411/893/1.157/9.87e-07 872/1832/2.313/9.71e-07 140/290/0.366/7.21e-07 162/298/0.391/6.60e-07dixmaank/12000 331/688/1.743/7.46e-07 480/958/2.514/7.57e-07 372/826/2.057/5.20e-07517/1141/2.843/9.27e-07 740/1550/3.981/7.71e-07 616/1221/3.095/3.79e-07 575/1191/3.275/9.70e-07 dixmaanl/21000 969/2055/8.714/8.61e-07 1207/2496/10.496/8.81e-07 918/2116/8.959/6.14e-07 792/1749/7.351/8.13e-07 885/1908/7.992/8.23e-07 NaN/NaN/NaN/NaN 777/1435/5.995/9.69e-07 dixmaanl/24000 520/1093/5.044/9.65e-07 507/1016/4.769/5.80e-07 560/1148/5.347/9.94e-07 520/1105/5.220/6.76e-07 884/1954/10.077/9.82e-07 608/1185/6.351/7.21e-07 1062/2152/10.530/8.56e-07 dixmaanl/90000 751/1574/26.821/8.53e-07 427/873/14.342/4.54e-07 247/531/8.625/8.44e-07 603/1301/20.401/5.48e-07 426/944/14.797/9.06e-07 NaN/NaN/NaN/NaN NaN/NaN/NaN/NaN dixon3dq/433/89/0.009/8.52e-07 46/97/0.004/4.30e-07 33/76/0.002/9.60e-07 50/106/0.004/9.68e-0758/117/0.004/4.99e-07 40/87/0.003/6.53e-0738/99/0.003/5.02e-07 dixon3dq/8 70/146/0.005/3.19e-0789/193/0.006/8.45e-07 84/192/0.006/8.68e-07 123/258/0.008/6.86e-07 99/218/0.006/9.38e-07 64/133/0.004/7.94e-0785/206/0.006/9.83e-07 dqdrtic/1000000 67/235/1.974/9.27e-07 72/226/1.933/9.35e-07 117/332/2.824/9.59e-07 119/346/2.781/9.52e-07 152/422/3.599/6.73e-07 95/298/2.387/3.28e-07 92/343/2.668/4.01e-07 dqdrtic/2200000 85/280/5.006/7.45e-07 101/310/5.823/6.51e-07 91/280/4.892/9.24e-07 117/345/6.089/6.12e-0774/242/4.210/7.66e-07 86/285/5.194/8.20e-07 82/316/5.966/8.44e-07 dqdrtic/4700000 71/246/9.198/9.03e-08 80/252/9.197/4.99e-07 101/289/10.920/9.85e-07 79/267/9.493/7.99e-07 106/300/11.916/6.94e-07 81/271/10.310/6.17e-07 68/276/9.385/1.09e-07dqrtic/64 14/77/0.006/4.24e-0717/76/0.003/1.55e-07 16/76/0.002/1.43e-0718/80/0.004/5.60e-07 25/89/0.002/1.10e-07 20/79/0.002/7.73e-0743/165/0.004/3.67e-07dqrtic/6800 37/151/0.227/6.40e-07 36/150/0.228/2.60e-07 44/151/0.226/4.04e-07 49/159/0.237/2.66e-07 67/199/0.301/7.12e-07 53/168/0.256/1.01e-07 118/471/0.700/3.97e-07 dqrtic/8000 41/163/0.281/2.84e-07 37/156/0.273/1.97e-0739/152/0.265/2.25e-0746/166/0.288/1.34e-0763/190/0.328/3.23e-0758/175/0.307/7.32e-07 191/737/1.319/8.93e-07 edensch/50035/119/0.018/8.06e-07 30/90/0.009/4.40e-0730/96/0.010/6.18e-0739/148/0.015/9.38e-0741/107/0.012/9.39e-0749/292/0.030/8.93e-07 52/265/0.027/8.43e-0752/267/0.814/2.03e-07 75/445/0.994/2.28e-07 edensch/1500046/260/0.796/9.68e-0743/212/0.647/4.37e-07 40/192/0.576/9.11e-0745/226/0.730/5.03e-0797/657/2.012/3.88e-07 139/1156/4.725/8.50e-07 edensch/3502050/235/0.803/2.78e-0769/402/2.791/3.98e-07 56/295/2.032/8.59e-0784/611/4.206/4.36e-07 60/233/1.613/2.57e-0782/435/3.149/5.12e-07 eg2/744/104/0.005/7.39e-0733/94/0.001/4.10e-0736/94/0.002/5.07e-0745/102/0.003/8.02e-07 90/240/0.004/9.97e-0748/115/0.001/9.89e-07 67/282/0.002/9.98e-07 fletchcr/5000 90/451/0.062/5.70e-0789/540/0.033/9.98e-07 117/842/0.044/6.16e-07150/1154/0.054/8.77e-07124/788/0.037/1.11e-07107/760/0.034/8.94e-07391/3698/0.157/5.65e-07139/1226/0.935/5.69e-07 103/210/0.183/7.25e-07 fletchcr/10000090/358/0.296/5.63e-07231/1977/1.500/4.00e-07 267/2385/1.784/2.70e-07 268/1779/1.302/1.66e-07 332/3231/2.281/9.20e-07253/2249/4.199/1.12e-07 86/342/0.715/7.46e-07 169/1327/2.557/1.64e-07 199/1699/3.158/6.08e-07 fletchcr/210000 224/2004/4.054/3.72e-07274/2624/4.846/7.09e-07 191/1785/3.191/3.67e-07freuroth/2 113/381/0.008/8.33e-07 100/335/0.003/7.09e-07187/505/0.004/5.01e-07 230/884/0.008/9.23e-07 226/625/0.005/6.48e-07 89/448/0.004/2.00e-07 62/289/0.003/9.36e-07246/574/0.005/5.09e-07 329/765/0.007/9.74e-07215/518/0.005/7.28e-07114/312/0.003/9.02e-07genrose/4 149/388/0.008/6.30e-07291/675/0.006/7.33e-07123/432/0.004/7.59e-07quartc/8000 41/163/0.294/2.84e-07 37/156/0.275/1.97e-07 39/152/0.266/2.25e-07 46/166/0.293/1.34e-07 63/190/0.332/3.23e-0758/175/0.311/7.32e-07 191/737/1.498/8.93e-07 quartc/15300 49/171/0.723/2.60e-07 51/184/0.696/2.18e-07 46/169/0.582/3.70e-07 60/196/0.713/8.83e-0772/221/0.737/2.95e-07 65/205/0.678/7.70e-07168/839/2.736/7.64e-07 quartc/40000 55/183/1.534/4.65e-07 38/158/1.522/3.25e-07105/312/2.948/4.07e-07 81/248/2.194/9.90e-07 50/192/1.604/5.66e-07 63/213/1.861/6.07e-07256/909/8.234/7.53e-07 79/166/0.006/5.80e-07 79/166/0.001/8.15e-07 90/280/0.002/7.60e-07 tridia/7 70/152/0.001/7.87e-0770/157/0.001/6.75e-07 105/211/0.003/6.81e-07110/221/0.002/3.86e-07woods/2500271/690/0.035/7.74e-07 434/1073/0.023/6.23e-07 555/1304/0.027/7.84e-07 486/1211/0.025/7.29e-07 401/987/0.033/6.08e-07 183/448/0.009/4.73e-07 205/819/0.016/4.79e-07woods/25000496/1149/0.258/8.46e-07 402/999/0.206/6.89e-07 321/793/0.149/7.46e-07438/1090/0.238/1.39e-07 353/848/0.167/9.67e-07 311/741/0.154/9.19e-07 169/657/0.112/6.74e-07 woods/250000274/699/1.525/7.76e-07 455/1167/2.520/9.55e-07 298/736/1.537/9.11e-07 476/1168/2.326/9.36e-07 382/945/1.887/5.11e-07 386/920/1.801/3.83e-07 488/1845/3.207/5.06e-07 2/17/0.011/2.68e-61 2/17/0.009/1.25e-63 bdexp/100002/17/0.023/2.68e-612/17/0.013/2.68e-612/17/0.010/2.68e-612/17/0.010/7.79e-632/17/0.009/3.57e-64bdexp/1000002/12/0.085/4.58e-1062/12/0.080/4.58e-1062/12/0.082/4.58e-1062/12/0.081/4.58e-1062/12/0.084/4.45e-1062/12/0.087/4.50e-1062/12/0.085/4.45e-106bdexp/5000002/12/0.432/1.55e-1202/12/0.438/1.55e-1202/12/0.422/1.55e-1202/12/0.419/1.55e-1202/12/0.441/1.55e-1202/12/0.421/1.54e-1202/12/0.428/1.54e-12030/107/0.019/3.25e-0727/106/0.019/2.94e-07 23/97/0.017/7.27e-07 33/112/0.020/2.48e-07exdenschnf/22000 28/99/0.042/8.17e-07 25/105/0.022/5.82e-0736/148/0.031/9.49e-08exdenschnf/1019000 30/116/1.112/9.50e-0734/121/1.139/8.24e-07 29/114/1.006/7.41e-07 28/126/1.083/5.64e-07 35/121/1.092/9.83e-07 28/135/1.161/5.05e-07 60/234/2.056/7.38e-07exdenschnf/225000026/112/2.252/7.26e-07 41/125/2.623/7.95e-07 27/115/2.290/6.39e-07 38/124/2.497/8.43e-07 27/123/2.435/3.49e-07 53/192/3.787/9.96e-07 27/115/2.294/7.45e-07exdenschnb/10000 15/80/0.017/8.30e-0715/80/0.008/8.30e-07 15/80/0.005/8.30e-0716/80/0.006/1.94e-0731/108/0.011/9.40e-0719/91/0.010/2.74e-0726/94/0.009/3.76e-0724/97/0.213/7.90e-07 exdenschnb/300000 23/94/0.199/8.16e-07 29/101/0.209/9.82e-07 26/97/0.191/2.45e-0833/106/0.209/6.70e-07 22/88/0.214/7.82e-0728/101/0.205/5.84e-07exdenschnb/500000 18/88/0.280/9.79e-0720/93/0.298/8.62e-07 22/94/0.308/3.98e-07 22/104/0.324/5.96e-08 21/95/0.292/4.15e-0817/89/0.271/9.63e-0720/92/0.288/7.88e-0723/95/0.003/1.61e-07 genquartic/4000 25/94/0.010/9.17e-0728/105/0.006/7.21e-0727/103/0.003/3.12e-0727/101/0.004/1.09e-07 28/98/0.003/7.43e-0732/134/0.005/6.21e-07genquartic/38000 20/90/0.042/6.46e-0819/88/0.028/1.83e-07 24/92/0.026/4.33e-07 20/95/0.024/2.40e-07 27/96/0.026/7.11e-07 20/99/0.027/9.77e-0720/88/0.024/7.17e-07genquartic/400000 18/89/0.294/3.22e-0720/92/0.293/1.83e-0722/92/0.298/1.72e-07 18/90/0.296/8.09e-0721/94/0.315/8.68e-07 26/98/0.340/6.47e-07 19/89/0.278/3.19e-0721/65/0.004/5.92e-0722/64/0.001/8.53e-07 28/70/0.001/8.52e-07biggsb1/3 20/57/0.001/3.76e-07 25/66/0.001/4.59e-0735/74/0.001/4.52e-0733/109/0.001/1.51e-07 20/71/0.004/2.37e-0723/76/0.001/8.83e-07 NaN/NaN/NaN/NaN 23/76/0.001/5.97e-07sine/2019/68/0.001/9.57e-0718/64/0.001/1.98e-08NaN/NaN/NaN/NaN 37/110/0.002/9.44e-07 28/92/0.001/9.82e-07 36/103/0.001/2.07e-07 29/89/0.001/4.29e-07 sine/10030/94/0.002/6.35e-0724/81/0.001/3.80e-07 73/311/0.004/8.08e-07 sine/49049/113/0.003/6.03e-07 65/155/0.005/3.87e-0770/175/0.005/4.78e-0752/141/0.005/2.30e-07 74/179/0.007/7.82e-07 691/2007/0.054/8.54e-07 65/206/0.007/9.45e-07 4/17/0.006/5.28e-073/14/0.000/9.13e-074/17/0.000/8.69e-07 4/17/0.001/5.28e-07 5/19/0.000/8.15e-07fletcbv3/5 4/17/0.000/8.78e-07 63/300/0.003/9.49e-07 138/272/0.003/6.80e-07 123/249/0.003/4.97e-07 135/255/0.003/7.29e-07171/356/0.004/3.95e-07 145/282/0.004/5.65e-07 126/294/0.003/9.21e-07 fletcbv3/20 NaN/NaN/NaN/NaN 51/123/0.006/7.53e-0749/117/0.003/9.09e-07 48/119/0.002/4.67e-07 49/129/0.002/9.80e-07 NaN/NaN/NaN/NaN NaN/NaN/NaN/NaN NaN/NaN/NaN/NaN nonscomp/45051/138/0.002/9.46e-07 46/130/0.002/8.85e-07 55/141/0.002/8.58e-07 56/148/0.002/3.12e-07 64/161/0.002/9.61e-07 56/146/0.002/2.38e-07 58/214/0.003/7.71e-07 nonscomp/1000nonscomp/505053/132/0.006/8.85e-07 58/138/0.006/9.59e-07 48/126/0.006/7.59e-07 61/140/0.006/9.54e-07 63/147/0.007/9.87e-07 59/147/0.007/5.91e-07 73/247/0.010/6.89e-0733/85/0.004/6.77e-0732/81/0.001/8.43e-07 31/80/0.001/5.62e-0735/87/0.001/3.31e-0751/105/0.001/3.67e-07 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465/2692/0.059/8.98e-07 326/1978/0.043/9.02e-07 349/2140/0.048/8.31e-07 diagonal3/400 682/5377/0.117/5.25e-07 NaN/NaN/NaN/NaN 1183/9279/0.783/9.40e-07 1651/14004/1.066/9.68e-07 1312/9720/0.742/9.27e-07 NaN/NaN/NaN/NaN diagonal3/2000 855/5753/0.443/9.94e-07 NaN/NaN/NaN/NaN bv/500149/325/0.168/7.85e-07 139/277/0.132/9.96e-07 146/335/0.155/9.23e-07178/396/0.188/8.89e-07 172/384/0.175/8.44e-07 175/361/0.166/9.47e-07 276/810/0.362/8.55e-07 ie/8015/57/0.087/6.99e-0715/45/0.057/5.90e-07 13/53/0.068/6.03e-07 15/57/0.073/6.99e-07 20/61/0.076/4.23e-0714/54/0.066/6.77e-0716/58/0.071/9.46e-08

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osb2/11

pen1/200

pen1/2000pen2/30

pen2/70trid/1000

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