

Table 1: Runtime comparison of competing model counters

| S. no | Benchmark                        | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|----------------------------------|-------|---------|----------|--------|------------|--------------|
| 1     | BN_80.erg.cnf                    | 16199 | 43644   | TO       | TO     | TO         | 4664.37      |
| 2     | BN_83.erg.cnf                    | 16926 | 46720   | TO       | TO     | TO         | 4346.06      |
| 3     | Network.50-20-9-q.cnf            | 1920  | 1728    | TO       | TO     | TO         | 4335.15      |
| 4     | Family2Dominant.1.5loci.uai.cnf  | 1215  | 1607    | TO       | TO     | TO         | 4274.96      |
| 5     | Family2Dominant.20.5loci.uai.cnf | 1215  | 1607    | TO       | TO     | TO         | 4224.06      |
| 6     | Pedigree_12.uai.cnf              | 1215  | 1607    | TO       | TO     | TO         | 4202.08      |
| 7     | Pedigree_11.uai.cnf              | 1215  | 1607    | TO       | TO     | TO         | 4121.18      |
| 8     | Network.90-38-8-q.cnf            | 7068  | 2265    | 4000.37  | 1.64   | TO         | 3986.17      |
| 9     | cpcs360b.erg.cnf                 | 17140 | 47013   | 4205.60  | TO     | TO         | 3947.29      |
| 10    | Network.50-20-3-q.cnf            | 1920  | 1910    | TO       | TO     | TO         | 3760.50      |
| 11    | Handmade.lang12.cnf              | 576   | 5102    | 3912.05  | 38.40  | TO         | 3553.84      |
| 12    | Network.75-24-6-q.cnf            | 2784  | 1693    | TO       | TO     | TO         | 3473.38      |
| 13    | Network.90-38-5-q.cnf            | 7068  | 2301    | TO       | 1.00   | TO         | 3430.55      |
| 14    | Network.75-23-1-q.cnf            | 2553  | 1527    | TO       | 126.65 | TO         | 3275.83      |
| 15    | min-8s.cnf                       | 1129  | 2250    | 3422.93  | TO     | TO         | 3170.99      |
| 16    | Network.50-20-6-q.cnf            | 1920  | 1966    | TO       | TO     | TO         | 3081.51      |
| 17    | Network.75-24-3-q.cnf            | 2784  | 1682    | TO       | TO     | TO         | 2780.54      |
| 18    | random.wff.3.100.150.cnf         | 100   | 150     | 1823.02  | TO     | TO         | 2555.36      |
| 19    | rbm_22.uai.cnf                   | 1144  | 2068    | 1581.13  | TO     | TO         | 2528.17      |
| 20    | DBN_13.uai_no_w.cnf              | 1144  | 2068    | 1580.69  | TO     | TO         | 2504.04      |
| 21    | DBN_13.uai.cnf                   | 1144  | 2068    | 1566.94  | TO     | TO         | 2499.77      |
| 22    | rbm_22.uai                       | 1144  | 2068    | 1583.61  | TO     | TO         | 2498.55      |
| 23    | rbm_ferro_22.uai.cnf             | 1144  | 2068    | 1467.01  | TO     | TO         | 2464.93      |
| 24    | rbm_ferro_22.uai                 | 1144  | 2068    | 1498.10  | TO     | TO         | 2446.48      |
| 25    | DBN_16.uai_no_w.cnf              | 1144  | 2068    | 1484.82  | TO     | TO         | 2442.84      |
| 26    | DBN_16.uai.cnf                   | 1144  | 2068    | 1514.54  | TO     | TO         | 2442.67      |
| 27    | or_chain_212.fg.uai.cnf          | 3135  | 3773    | TO       | TO     | TO         | 2439.11      |
| 28    | Network.75-23-5-q.cnf            | 2553  | 1530    | TO       | 62.08  | TO         | 2295.82      |
| 29    | Configuration.C210.FW.cnf        | 2024  | 4461    | 2031.40  | TO     | TO         | 2111.23      |
| 30    | Network.90-42-6-q.cnf            | 8652  | 2916    | 3107.83  | 16.35  | TO         | 2107.30      |
| 31    | Network.90-34-3-q.cnf            | 5644  | 1783    | 2753.58  | 3.48   | TO         | 2012.71      |
| 32    | GEOM30a_5.wcsp.uai.cnf           | 312   | 2355    | 1973.90  | TO     | TO         | 1996.59      |
| 33    | grid10x10.f5.wrap.uai.cnf        | 800   | 1100    | 1158.16  | TO     | TO         | 1811.23      |

| S. no | Benchmark                  | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbssharpSAT |
|-------|----------------------------|-------|---------|----------|--------|------------|---------------|
| 34    | grid10x10.f15.wrap.uai.cnf | 800   | 1100    | 1140.33  | TO     | TO         | 1801.96       |
| 35    | Grids_14.uai.cnf           | 800   | 1100    | 1160.03  | TO     | TO         | 1772.30       |
| 36    | Grids_11.uai.cnf           | 800   | 1100    | 1151.22  | TO     | TO         | 1761.12       |
| 37    | Grids_13.uai.cnf           | 800   | 1100    | 1109.12  | TO     | TO         | 1753.52       |
| 38    | grid10x10.f10.wrap.uai.cnf | 800   | 1100    | 1169.05  | TO     | TO         | 1750.95       |
| 39    | Network.75-22-10-q.cnf     | 2332  | 1333    | TO       | 35.02  | TO         | 1712.10       |
| 40    | Handmade.ais12.cnf         | 265   | 4269    | 2558.65  | 340.02 | TO         | 1628.15       |
| 41    | Network.90-34-10-q.cnf     | 5644  | 1941    | 1555.02  | 1.99   | TO         | 1450.15       |
| 42    | Configuration.C202_FS.cnf  | 1990  | 4016    | 1556.36  | 335.35 | TO         | 1429.06       |
| 43    | Network.75-22-7-q.cnf      | 2332  | 1620    | TO       | 388.70 | TO         | 1427.80       |
| 44    | Configuration.C202.FW.cnf  | 2038  | 4649    | 1237.38  | TO     | TO         | 1364.87       |
| 45    | or_chain_4.fg.uai.cnf      | 2818  | 3396    | 2077.44  | TO     | TO         | 1349.88       |
| 46    | 07A-3.cnf                  | 7709  | 19952   | 487.73   | 534.52 | TO         | 1231.45       |
| 47    | rbm_21.uai                 | 1050  | 1890    | 761.28   | TO     | TO         | 1195.85       |
| 48    | Network.50-20-8-q.cnf      | 1920  | 1929    | TO       | TO     | TO         | 1195.38       |
| 49    | BN_85.erg.cnf              | 14105 | 39913   | 1238.07  | TO     | TO         | 1184.35       |
| 50    | Configuration.C210_FS.cnf  | 1990  | 4158    | 1040.00  | 391.04 | TO         | 1183.31       |
| 51    | rbm_ferro_21.uai.cnf       | 1050  | 1890    | 699.69   | TO     | TO         | 1182.01       |
| 52    | DBN_12.uai_no_w.cnf        | 1050  | 1890    | 723.41   | TO     | TO         | 1179.62       |
| 53    | rbm_21.uai.cnf             | 1050  | 1890    | 724.81   | TO     | TO         | 1177.26       |
| 54    | DBN_12.uai.cnf             | 1050  | 1890    | 731.30   | TO     | TO         | 1168.70       |
| 55    | DBN_15.uai_no_w.cnf        | 1050  | 1890    | 680.27   | TO     | TO         | 1167.36       |
| 56    | DBN_15.uai.cnf             | 1050  | 1890    | 705.59   | TO     | TO         | 1153.09       |
| 57    | rbm_ferro_21.uai           | 1050  | 1890    | 695.88   | TO     | TO         | 1151.67       |
| 58    | or_chain_138.fg.uai.cnf    | 2805  | 3386    | TO       | TO     | TO         | 1140.44       |
| 59    | Network.75-26-8-q.cnf      | 3276  | 1989    | TO       | TO     | TO         | 1126.58       |
| 60    | Network.75-21-6-q.cnf      | 2121  | 1376    | TO       | 148.11 | TO         | 1123.31       |
| 61    | Network.75-20-7-q.cnf      | 1920  | 1264    | TO       | 94.54  | TO         | 1089.26       |
| 62    | Network.75-24-8-q.cnf      | 2784  | 1518    | TO       | 38.97  | TO         | 1049.90       |
| 63    | Network.50-16-1-q.cnf      | 1216  | 1175    | TO       | TO     | TO         | 1027.40       |
| 64    | Network.50-20-4-q.cnf      | 1920  | 1883    | TO       | TO     | TO         | 1013.06       |
| 65    | Network.75-25-1-q.cnf      | 3025  | 1704    | TO       | 127.65 | TO         | 1010.51       |
| 66    | min-6s.cnf                 | 839   | 1679    | TO       | TO     | 138.83     | 993.95        |
| 67    | Network.75-21-7-q.cnf      | 2121  | 1355    | TO       | 468.00 | TO         | 984.48        |
| 68    | Network.50-20-2-q.cnf      | 1920  | 1855    | TO       | TO     | TO         | 976.98        |

| S. no | Benchmark               | Vars   | Clauses | SharpSAT | D4      | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------|--------|---------|----------|---------|------------|--------------|
| 69    | Network.50-18-1-q.cnf   | 1548   | 1510    | TO       | TO      | TO         | 946.38       |
| 70    | Network.50-20-1-q.cnf   | 1920   | 1839    | TO       | TO      | TO         | 934.11       |
| 71    | Network.50-18-8-q.cnf   | 1548   | 1440    | TO       | TO      | TO         | 906.13       |
| 72    | Network.75-24-1-q.cnf   | 2784   | 1792    | TO       | TO      | TO         | 850.96       |
| 73    | Network.75-22-9-q.cnf   | 2332   | 1392    | TO       | 91.58   | TO         | 807.91       |
| 74    | Network.75-19-4-q.cnf   | 1729   | 1082    | TO       | 9.18    | TO         | 792.17       |
| 75    | Network.75-22-6-q.cnf   | 2332   | 1466    | TO       | 133.93  | TO         | 783.45       |
| 76    | Network.50-18-5-q.cnf   | 1548   | 1566    | TO       | TO      | TO         | 780.33       |
| 77    | circuit.c2670.isc.cnf   | 1230   | 1791    | 578.97   | 5.17    | 91.57      | 753.58       |
| 78    | BN_10.erg.cnf           | 1136   | 1051    | 684.26   | TO      | TO         | 733.73       |
| 79    | Network.50-18-7-q.cnf   | 1548   | 1539    | TO       | TO      | TO         | 728.35       |
| 80    | Network.75-24-10-q.cnf  | 2784   | 1691    | TO       | 529.05  | TO         | 706.93       |
| 81    | BN_38.erg.cnf           | 3870   | 3624    | 470.28   | 33.87   | TO         | 705.76       |
| 82    | Network.75-25-5-q.cnf   | 3025   | 1912    | TO       | TO      | TO         | 686.31       |
| 83    | Network.75-22-8-q.cnf   | 2332   | 1387    | TO       | 176.35  | TO         | 670.85       |
| 84    | Network.50-18-9-q.cnf   | 1548   | 1438    | TO       | TO      | TO         | 650.25       |
| 85    | Network.50-18-10-q.cnf  | 1548   | 1622    | TO       | TO      | TO         | 636.64       |
| 86    | Network.75-23-4-q.cnf   | 2553   | 1663    | TO       | 312.26  | TO         | 626.15       |
| 87    | Network.50-16-9-q.cnf   | 1216   | 1316    | TO       | TO      | TO         | 618.49       |
| 88    | rbm_20.uai.cnf          | 960    | 1720    | 326.57   | TO      | TO         | 577.88       |
| 89    | DBN_11.uai.cnf          | 960    | 1720    | 322.77   | TO      | TO         | 573.41       |
| 90    | Network.75-20-8-q.cnf   | 1920   | 1215    | TO       | 46.79   | TO         | 570.43       |
| 91    | rbm_20.uai              | 960    | 1720    | 324.35   | TO      | TO         | 566.50       |
| 92    | DBN_11.uai_no_w.cnf     | 960    | 1720    | 323.28   | TO      | TO         | 565.69       |
| 93    | Network.75-24-9-q.cnf   | 2784   | 1738    | TO       | 678.71  | TO         | 565.50       |
| 94    | rbm_ferro_20.uai        | 960    | 1720    | 307.30   | TO      | TO         | 549.45       |
| 95    | DBN_14.uai_no_w.cnf     | 960    | 1720    | 300.56   | TO      | TO         | 548.32       |
| 96    | rbm_ferro_20.uai.cnf    | 960    | 1720    | 299.26   | TO      | TO         | 546.75       |
| 97    | DBN_14.uai.cnf          | 960    | 1720    | 297.73   | TO      | TO         | 542.57       |
| 98    | or_chain_220.fg.uai.cnf | 2433   | 2950    | 1901.95  | 1307.16 | TO         | 535.43       |
| 99    | BN_28.erg.cnf           | 119752 | 142257  | 507.10   | TO      | TO         | 535.28       |
| 100   | Network.50-16-10-q.cnf  | 1216   | 1293    | TO       | TO      | TO         | 533.33       |
| 101   | Network.75-19-5-q.cnf   | 1729   | 1064    | TO       | 10.17   | TO         | 524.59       |
| 102   | circuit.c1908.isc.cnf   | 751    | 1218    | 557.45   | 35.45   | 1.18       | 518.00       |
| 103   | Network.75-21-4-q.cnf   | 2121   | 1231    | TO       | 15.71   | TO         | 507.58       |

| S. no | Benchmark                 | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|---------------------------|-------|---------|----------|--------|------------|--------------|
| 104   | Network.50-18-3-q.cnf     | 1548  | 1456    | TO       | TO     | TO         | 476.05       |
| 105   | Network.75-20-6-q.cnf     | 1920  | 1128    | TO       | 34.19  | TO         | 462.76       |
| 106   | Network.50-18-2-q.cnf     | 1548  | 1480    | TO       | TO     | TO         | 461.87       |
| 107   | Network.75-24-4-q.cnf     | 2784  | 1547    | TO       | 74.45  | TO         | 448.20       |
| 108   | Network.75-22-3-q.cnf     | 2332  | 1444    | TO       | 74.49  | TO         | 435.72       |
| 109   | or_chain_186.fg.uai.cnf   | 4417  | 5129    | 1692.59  | 108.67 | TO         | 420.99       |
| 110   | Configuration.C168_FW.cnf | 1909  | 3668    | 407.69   | 104.49 | TO         | 418.88       |
| 111   | Network.50-16-7-q.cnf     | 1216  | 1182    | TO       | 533.00 | TO         | 416.52       |
| 112   | Network.75-20-3-q.cnf     | 1920  | 1230    | TO       | 9.36   | TO         | 381.22       |
| 113   | Network.50-16-2-q.cnf     | 1216  | 1270    | TO       | TO     | TO         | 376.38       |
| 114   | Network.75-23-2-q.cnf     | 2553  | 1485    | TO       | 69.64  | TO         | 365.76       |
| 115   | Network.75-19-2-q.cnf     | 1729  | 1205    | TO       | 50.02  | TO         | 363.49       |
| 116   | Network.75-24-5-q.cnf     | 2784  | 1678    | TO       | TO     | TO         | 357.58       |
| 117   | Network.50-16-8-q.cnf     | 1216  | 1150    | TO       | TO     | TO         | 356.21       |
| 118   | Network.50-16-5-q.cnf     | 1216  | 1214    | TO       | TO     | TO         | 350.64       |
| 119   | or_chain_247.fg.uai.cnf   | 2644  | 3205    | 516.38   | 243.46 | TO         | 344.26       |
| 120   | Network.75-21-10-q.cnf    | 2121  | 1314    | TO       | 72.77  | TO         | 340.63       |
| 121   | Network.50-16-4-q.cnf     | 1216  | 1173    | TO       | TO     | TO         | 339.81       |
| 122   | Network.50-18-6-q.cnf     | 1548  | 1415    | TO       | TO     | TO         | 338.09       |
| 123   | Network.75-19-7-q.cnf     | 1729  | 1080    | TO       | 22.36  | TO         | 335.01       |
| 124   | Network.75-21-8-q.cnf     | 2121  | 1284    | TO       | 83.53  | TO         | 334.71       |
| 125   | Promedus_38.uai.cnf       | 2644  | 3205    | 489.07   | 229.63 | TO         | 332.20       |
| 126   | Network.75-20-10-q.cnf    | 1920  | 1115    | TO       | 46.48  | TO         | 331.23       |
| 127   | Network.75-23-8-q.cnf     | 2553  | 1438    | TO       | 173.38 | TO         | 316.11       |
| 128   | Network.75-21-2-q.cnf     | 2121  | 1149    | TO       | 14.60  | TO         | 314.31       |
| 129   | Network.90-50-8-q.cnf     | 12300 | 3826    | TO       | 3.60   | TO         | 307.76       |
| 130   | Network.75-15-7-q.cnf     | 1065  | 646     | 320.26   | 1.70   | TO         | 303.17       |
| 131   | Network.75-23-10-q.cnf    | 2553  | 1451    | TO       | 26.37  | TO         | 302.93       |
| 132   | Network.75-22-4-q.cnf     | 2332  | 1463    | TO       | TO     | TO         | 302.15       |
| 133   | Network.75-20-1-q.cnf     | 1920  | 1198    | TO       | 197.60 | TO         | 297.34       |
| 134   | Network.75-19-3-q.cnf     | 1729  | 1136    | TO       | 44.95  | TO         | 293.44       |
| 135   | random.wff.3.150.525.cnf  | 150   | 525     | 200.14   | TO     | TO         | 292.38       |
| 136   | Network.50-16-6-q.cnf     | 1216  | 1179    | TO       | 383.49 | TO         | 291.24       |
| 137   | Network.90-38-6-q.cnf     | 7068  | 2371    | 244.57   | 4.86   | TO         | 291.13       |
| 138   | Network.75-23-9-q.cnf     | 2553  | 1576    | TO       | 205.94 | TO         | 287.55       |

| S. no | Benchmark                 | Vars | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|---------------------------|------|---------|----------|--------|------------|--------------|
| 139   | Configuration.C220.FW.cnf | 1932 | 3385    | 249.45   | 75.69  | TO         | 283.16       |
| 140   | Network.75-21-3-q.cnf     | 2121 | 1342    | TO       | 122.42 | TO         | 282.41       |
| 141   | Network.50-16-3-q.cnf     | 1216 | 1111    | TO       | TO     | TO         | 279.10       |
| 142   | Network.75-19-10-q.cnf    | 1729 | 1080    | TO       | 15.42  | TO         | 276.57       |
| 143   | Configuration.C208.FC.cnf | 1922 | 4151    | 247.39   | 51.14  | TO         | 275.71       |
| 144   | Network.75-22-1-q.cnf     | 2332 | 1416    | TO       | 98.95  | TO         | 274.51       |
| 145   | Network.75-21-1-q.cnf     | 2121 | 1276    | TO       | 33.43  | TO         | 259.15       |
| 146   | Network.75-20-9-q.cnf     | 1920 | 1154    | TO       | 15.94  | TO         | 250.21       |
| 147   | 02A-1.cnf                 | 2226 | 5912    | 284.31   | 295.13 | 269.88     | 248.53       |
| 148   | c1908.isc.cnf.uai.cnf     | 1502 | 1912    | 383.64   | 28.89  | 1.24       | 244.74       |
| 149   | Network.50-14-2-q.cnf     | 924  | 898     | TO       | 36.47  | TO         | 242.46       |
| 150   | Network.90-34-5-q.cnf     | 5644 | 1760    | 191.14   | 1.28   | TO         | 240.75       |
| 151   | Network.75-20-2-q.cnf     | 1920 | 1192    | TO       | 71.17  | TO         | 240.65       |
| 152   | Network.75-19-8-q.cnf     | 1729 | 1094    | TO       | 53.55  | TO         | 240.32       |
| 153   | Network.75-19-1-q.cnf     | 1729 | 1076    | TO       | 8.82   | TO         | 232.50       |
| 154   | BN_34.erg.cnf             | 3928 | 3597    | 81.77    | 1.47   | TO         | 227.38       |
| 155   | Network.75-18-9-q.cnf     | 1548 | 938     | TO       | 17.14  | TO         | 227.26       |
| 156   | Network.50-14-10-q.cnf    | 924  | 954     | TO       | 160.59 | TO         | 225.78       |
| 157   | Network.75-18-8-q.cnf     | 1548 | 946     | TO       | 9.92   | TO         | 224.26       |
| 158   | Network.75-18-10-q.cnf    | 1548 | 957     | TO       | 4.73   | TO         | 224.03       |
| 159   | Network.50-10-1-q.cnf     | 460  | 481     | 154.03   | 3.68   | 288.98     | 224.03       |
| 160   | logistics.logistics.c.cnf | 1141 | 3124    | 226.46   | 292.98 | TO         | 223.48       |
| 161   | Network.90-30-5-q.cnf     | 4380 | 1533    | 92.21    | 0.99   | TO         | 222.12       |
| 162   | Network.75-18-3-q.cnf     | 1548 | 1071    | TO       | 49.40  | TO         | 214.68       |
| 163   | or_chain_38.fg.uai.cnf    | 1613 | 1992    | 348.64   | 76.86  | TO         | 210.25       |
| 164   | random.uf250-021.cnf      | 250  | 1065    | 147.51   | 66.39  | TO         | 207.74       |
| 165   | Network.75-19-6-q.cnf     | 1729 | 1143    | TO       | 25.62  | TO         | 205.59       |
| 166   | Promedus_14.uai.cnf       | 1613 | 1992    | 345.23   | 79.01  | TO         | 204.91       |
| 167   | Network.75-18-5-q.cnf     | 1548 | 937     | 2971.16  | 2.91   | TO         | 203.45       |
| 168   | Network.75-18-2-q.cnf     | 1548 | 929     | TO       | 11.81  | TO         | 195.58       |
| 169   | min-3s.cnf                | 431  | 845     | 313.64   | TO     | 26.07      | 195.44       |
| 170   | Network.50-14-6-q.cnf     | 924  | 851     | TO       | 37.20  | TO         | 195.10       |
| 171   | Network.75-16-9-q.cnf     | 1216 | 851     | 2795.84  | 13.40  | TO         | 194.17       |
| 172   | Network.75-18-6-q.cnf     | 1548 | 930     | 3034.85  | 6.70   | TO         | 193.78       |
| 173   | Network.75-20-5-q.cnf     | 1920 | 1091    | TO       | 5.39   | TO         | 193.22       |

| S. no | Benchmark              | Vars | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------|------|---------|----------|--------|------------|--------------|
| 174   | Network.50-14-5-q.cnf  | 924  | 929     | TO       | 124.99 | TO         | 192.33       |
| 175   | Network.50-14-3-q.cnf  | 924  | 910     | TO       | 346.02 | TO         | 191.84       |
| 176   | Network.75-18-7-q.cnf  | 1548 | 945     | 1902.58  | 5.82   | TO         | 191.44       |
| 177   | 07A-2.cnf              | 5388 | 14504   | 134.07   | 36.44  | 3990.73    | 190.78       |
| 178   | Network.75-16-4-q.cnf  | 1216 | 861     | TO       | 12.72  | TO         | 189.51       |
| 179   | Network.50-14-7-q.cnf  | 924  | 957     | TO       | 82.02  | TO         | 185.40       |
| 180   | Network.50-14-9-q.cnf  | 924  | 952     | TO       | 224.62 | TO         | 184.96       |
| 181   | Network.75-17-3-q.cnf  | 1377 | 880     | TO       | 26.84  | TO         | 184.04       |
| 182   | Network.50-14-4-q.cnf  | 924  | 820     | TO       | 30.38  | TO         | 181.96       |
| 183   | Network.75-16-5-q.cnf  | 1216 | 669     | 107.87   | 1.89   | TO         | 179.58       |
| 184   | Network.50-14-8-q.cnf  | 924  | 843     | TO       | 25.66  | TO         | 179.58       |
| 185   | blasted_case18.cnf     | 579  | 1311    | 205.25   | 0.78   | 16.82      | 178.79       |
| 186   | Network.50-14-1-q.cnf  | 924  | 932     | TO       | 204.78 | TO         | 177.83       |
| 187   | Network.75-17-6-q.cnf  | 1377 | 798     | 148.69   | 2.65   | TO         | 176.41       |
| 188   | Network.50-12-3-q.cnf  | 672  | 668     | TO       | 14.73  | 682.93     | 175.71       |
| 189   | Network.50-12-4-q.cnf  | 672  | 667     | TO       | 19.28  | 694.63     | 174.62       |
| 190   | Network.75-16-2-q.cnf  | 1216 | 835     | TO       | 12.98  | TO         | 174.47       |
| 191   | Network.75-17-8-q.cnf  | 1377 | 880     | TO       | 4.15   | TO         | 173.49       |
| 192   | Network.75-20-4-q.cnf  | 1920 | 1117    | TO       | 13.76  | TO         | 168.09       |
| 193   | Network.75-17-1-q.cnf  | 1377 | 865     | TO       | 3.01   | TO         | 165.71       |
| 194   | Network.75-16-10-q.cnf | 1216 | 721     | 118.05   | 3.17   | TO         | 165.58       |
| 195   | Network.90-30-8-q.cnf  | 4380 | 1538    | 326.78   | 2.25   | TO         | 165.03       |
| 196   | Network.75-17-5-q.cnf  | 1377 | 791     | 854.29   | 2.33   | TO         | 163.32       |
| 197   | Network.50-12-10-q.cnf | 672  | 687     | TO       | 18.43  | 728.81     | 162.90       |
| 198   | Network.50-10-2-q.cnf  | 460  | 507     | 1049.72  | 5.60   | 289.86     | 162.84       |
| 199   | Network.75-17-4-q.cnf  | 1377 | 854     | TO       | 3.38   | TO         | 162.05       |
| 200   | Network.75-16-7-q.cnf  | 1216 | 762     | 1441.62  | 2.92   | TO         | 160.72       |
| 201   | or_chain_29.fg.uai.cnf | 2193 | 2668    | 652.08   | 185.77 | TO         | 159.06       |
| 202   | Network.75-16-1-q.cnf  | 1216 | 743     | 821.49   | 2.69   | TO         | 158.66       |
| 203   | Network.50-12-7-q.cnf  | 672  | 682     | TO       | 20.00  | 719.81     | 157.39       |
| 204   | Network.75-17-7-q.cnf  | 1377 | 776     | 731.17   | 4.51   | TO         | 156.87       |
| 205   | Network.50-12-9-q.cnf  | 672  | 680     | TO       | 7.09   | 706.76     | 153.38       |
| 206   | Network.50-12-8-q.cnf  | 672  | 655     | TO       | 54.44  | 688.71     | 152.88       |
| 207   | Network.50-12-6-q.cnf  | 672  | 575     | 478.99   | 2.18   | 729.96     | 152.04       |
| 208   | Network.50-12-1-q.cnf  | 672  | 606     | TO       | 7.18   | 669.65     | 151.87       |

| S. no | Benchmark                         | Vars   | Clauses | SharpSAT | D4      | ApproxMCv3 | ProbsharpSAT |
|-------|-----------------------------------|--------|---------|----------|---------|------------|--------------|
| 209   | Configuration.C220.FV.cnf         | 1933   | 3442    | 145.59   | 59.52   | TO         | 151.63       |
| 210   | Network.75-18-4-q.cnf             | 1548   | 912     | 177.53   | 3.15    | TO         | 150.78       |
| 211   | Network.90-42-5-q.cnf             | 8652   | 2780    | 129.89   | 4.72    | TO         | 150.03       |
| 212   | Network.75-17-9-q.cnf             | 1377   | 795     | 971.68   | 4.34    | TO         | 148.81       |
| 213   | Network.50-12-5-q.cnf             | 672    | 702     | TO       | 19.83   | 638.98     | 145.98       |
| 214   | Network.75-18-1-q.cnf             | 1548   | 883     | TO       | 4.43    | TO         | 145.29       |
| 215   | Network.75-15-2-q.cnf             | 1065   | 667     | 344.93   | 2.04    | TO         | 143.88       |
| 216   | Network.90-23-2-q.cnf             | 2553   | 1016    | 116.84   | 1.96    | TO         | 143.72       |
| 217   | Network.50-12-2-q.cnf             | 672    | 652     | TO       | 6.36    | 645.14     | 143.21       |
| 218   | relational_5.uai.cnf              | 140000 | 180000  | 135.72   | 3492.67 | TO         | 140.80       |
| 219   | BN_39.erg.cnf                     | 3872   | 3611    | 118.82   | 43.08   | TO         | 135.61       |
| 220   | Network.75-14-9-q.cnf             | 924    | 660     | 295.02   | 6.81    | TO         | 135.46       |
| 221   | logistics.c.cnf.uai.cnf           | 2282   | 4249    | 120.31   | 281.40  | TO         | 129.98       |
| 222   | Configuration.C203.FW.cnf         | 2030   | 3396    | 127.06   | 42.63   | TO         | 125.02       |
| 223   | Network.75-17-10-q.cnf            | 1377   | 734     | 116.95   | 0.89    | TO         | 120.87       |
| 224   | Network.50-10-3-q.cnf             | 460    | 464     | 1780.59  | 3.69    | 308.30     | 111.25       |
| 225   | Family2Recessive.15.5loci.uai.cnf | 1159   | 1537    | 107.00   | 30.91   | TO         | 111.03       |
| 226   | blasted_squaring70.cnf            | 882    | 1662    | 138.03   | 201.02  | 13.18      | 111.01       |
| 227   | Pedigree_13.uai.cnf               | 1159   | 1537    | 103.53   | 219.84  | TO         | 109.20       |
| 228   | bmc.bmc-galileo-8.cnf             | 58074  | 71769   | 154.53   | TO      | TO         | 104.51       |
| 229   | Network.50-10-7-q.cnf             | 460    | 435     | 141.63   | 1.37    | 296.86     | 98.63        |
| 230   | min-2s.cnf                        | 301    | 567     | 133.04   | TO      | 12.27      | 98.26        |
| 231   | bmc.bmc-ibm-12.cnf                | 39598  | 41918   | 64.75    | 23.38   | 364.59     | 97.61        |
| 232   | Configuration.C203.FS.cnf         | 1931   | 3339    | 90.47    | 39.06   | TO         | 94.19        |
| 233   | smokers_20.uai.cnf                | 2580   | 3300    | 83.36    | 495.32  | TO         | 92.30        |
| 234   | Alchemy_11.uai.cnf                | 2580   | 3300    | 82.10    | 501.07  | TO         | 91.54        |
| 235   | or_chain_91.fg.uai.cnf            | 2803   | 3221    | 83.55    | 16.10   | TO         | 85.58        |
| 236   | Promedus_23.uai.cnf               | 2803   | 3221    | 82.89    | 17.37   | TO         | 83.26        |
| 237   | Network.90-34-9-q.cnf             | 5644   | 1883    | 66.65    | 0.61    | TO         | 81.15        |
| 238   | CSP_12.uai.cnf                    | 734    | 1830    | 64.27    | 626.21  | TO         | 76.52        |
| 239   | 54.wcsp.uai.cnf                   | 734    | 1830    | 64.22    | 654.12  | TO         | 75.71        |
| 240   | Network.75-15-8-q.cnf             | 1065   | 675     | 56.35    | 0.45    | TO         | 75.35        |
| 241   | or_chain_150.fg.uai.cnf           | 3665   | 4353    | 109.82   | 73.83   | TO         | 71.11        |
| 242   | random.uf250-037.cnf              | 250    | 1065    | 64.24    | 21.74   | TO         | 70.24        |
| 243   | BN_35.erg.cnf                     | 3897   | 3564    | 28.31    | 4.30    | TO         | 69.68        |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|--------|------------|--------------|
| 244   | Network.sat-grid-pbl-0020.cnf | 420  | 344     | 40.78    | 0.08   | TO         | 67.87        |
| 245   | random.uf250-091.cnf          | 250  | 1065    | 41.57    | 16.31  | 2259.91    | 64.19        |
| 246   | Network.75-15-3-q.cnf         | 1065 | 633     | 29.98    | 2.27   | TO         | 61.81        |
| 247   | Network.90-25-7-q.cnf         | 3025 | 1160    | 64.59    | 1.03   | TO         | 57.52        |
| 248   | Configuration.C129_FR.cnf     | 1888 | 3875    | 44.41    | 22.63  | TO         | 54.59        |
| 249   | 90-34-1e80.erg.cnf            | 3230 | 3092    | 50.37    | 4.20   | TO         | 51.78        |
| 250   | Configuration.C208_FA.cnf     | 1876 | 4044    | 47.76    | 105.51 | TO         | 51.06        |
| 251   | 90-34-1e100.erg.cnf           | 3230 | 3092    | 50.00    | 3.91   | TO         | 51.01        |
| 252   | random.uf250-01.cnf           | 250  | 1065    | 70.85    | 21.19  | 1833.86    | 49.25        |
| 253   | Network.50-10-9-q.cnf         | 460  | 447     | 35.46    | 0.71   | 284.31     | 49.14        |
| 254   | blasted_TR_b14_1_linear.cnf   | 1287 | 2282    | 18.56    | 6.93   | 24.14      | 45.93        |
| 255   | BN_36.erg.cnf                 | 3924 | 3542    | 28.89    | 3.59   | TO         | 44.37        |
| 256   | Network.90-34-1-q.cnf         | 5644 | 1903    | 22.65    | 0.98   | TO         | 43.81        |
| 257   | Promedus_19.uai.cnf           | 2449 | 2920    | 39.75    | 27.40  | TO         | 43.33        |
| 258   | or_chain_68.fg.uai.cnf        | 2449 | 2920    | 38.97    | 20.22  | TO         | 42.53        |
| 259   | Network.75-17-2-q.cnf         | 1377 | 734     | 22.75    | 1.16   | TO         | 40.57        |
| 260   | blasted_case107.cnf           | 618  | 943     | 38.82    | 0.61   | 20.85      | 39.79        |
| 261   | Network.90-30-1-q.cnf         | 4380 | 1483    | 45.31    | 2.07   | TO         | 39.17        |
| 262   | random.uf250-04.cnf           | 250  | 1054    | 28.36    | 26.14  | 1713.47    | 38.36        |
| 263   | blasted_squaring16.cnf        | 1627 | 3748    | 35.69    | 50.88  | 3209.22    | 38.29        |
| 264   | Pollard.sk_1_10.cnf           | 7815 | 17955   | 25.79    | 28.32  | TO         | 36.11        |
| 265   | Network.50-10-8-q.cnf         | 460  | 417     | 32.95    | 1.23   | 296.12     | 35.47        |
| 266   | BN_31.erg.cnf                 | 3177 | 2903    | 15.31    | 13.10  | TO         | 33.36        |
| 267   | Network.90-26-8-q.cnf         | 3276 | 1237    | 38.84    | 0.96   | TO         | 32.97        |
| 268   | or_chain_18.fg.uai.cnf        | 3748 | 4324    | 292.00   | 3.51   | TO         | 31.33        |
| 269   | Network.75-16-3-q.cnf         | 1216 | 745     | 36.55    | 2.26   | TO         | 29.57        |
| 270   | circuit.rc.cnf                | 2472 | 16770   | 20.41    | 56.63  | TO         | 28.78        |
| 271   | random.uf250-095.cnf          | 250  | 1045    | 29.26    | 5.83   | 658.28     | 28.68        |
| 272   | Network.90-38-3-q.cnf         | 7068 | 2369    | 32.11    | 4.65   | TO         | 27.88        |
| 273   | Network.90-26-6-q.cnf         | 3276 | 1186    | 28.60    | 1.03   | TO         | 27.47        |
| 274   | circuit.c880.isc.cnf          | 417  | 726     | 43.81    | 5.01   | 3.07       | 27.28        |
| 275   | rc.cnf.uai.cnf                | 5464 | 19762   | 23.57    | 102.67 | TO         | 27.25        |
| 276   | Network.50-10-10-q.cnf        | 460  | 420     | 34.75    | 1.57   | 272.17     | 27.10        |
| 277   | Promedus_18.uai.cnf           | 1433 | 1791    | 175.76   | 32.71  | TO         | 26.81        |
| 278   | or_chain_65.fg.uai.cnf        | 1433 | 1791    | 177.99   | 35.18  | TO         | 26.78        |



| S. no | Benchmark                           | Vars   | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------------|--------|---------|----------|--------|------------|--------------|
| 279   | Network.50-10-6-q.cnf               | 460    | 451     | 72.44    | 4.05   | 300.70     | 26.49        |
| 280   | Promedus_13.uai.cnf                 | 3748   | 4324    | 308.15   | 4.98   | TO         | 25.29        |
| 281   | Network.90-42-2-q.cnf               | 8652   | 2615    | 25.72    | 1.34   | TO         | 24.82        |
| 282   | Network.90-30-3-q.cnf               | 4380   | 1401    | 16.36    | 0.74   | TO         | 24.53        |
| 283   | LoginService2.sk_23_36.cnf          | 11511  | 15633   | 23.46    | 8.23   | TO         | 23.97        |
| 284   | diagStencilClean.sk_41_36.cnf       | 378131 | 378150  | 23.66    | 0.14   | 17.47      | 23.57        |
| 285   | Network.75-15-1-q.cnf               | 1065   | 623     | 16.94    | 0.43   | TO         | 21.70        |
| 286   | cpcs54.erg.cnf                      | 647    | 1490    | 21.19    | 411.77 | TO         | 21.16        |
| 287   | cpcs179.erg.cnf                     | 2120   | 4423    | 19.95    | 7.76   | TO         | 20.69        |
| 288   | Network.75-14-10-q.cnf              | 924    | 543     | 16.90    | 0.67   | TO         | 19.93        |
| 289   | Network.75-15-6-q.cnf               | 1065   | 620     | 9.72     | 0.67   | TO         | 19.35        |
| 290   | Network.mastermind_10_08_03.net.cnf | 5887   | 8610    | 16.85    | 64.79  | TO         | 19.35        |
| 291   | log2.sk_72_391.cnf                  | 185178 | 220628  | 18.42    | TO     | TO         | 19.19        |
| 292   | Configuration.C170.FR.cnf           | 1874   | 5889    | 19.16    | 54.08  | TO         | 19.15        |
| 293   | diagStencil.sk_35_36.cnf            | 319730 | 319727  | 16.90    | 0.11   | 13.87      | 16.91        |
| 294   | blasted_squaring14.cnf              | 1458   | 3253    | 24.53    | 871.32 | 1294.34    | 16.84        |
| 295   | blasted_squaring12.cnf              | 1507   | 3364    | 34.12    | 909.30 | 452.23     | 15.53        |
| 296   | Configuration.C140.FW.cnf           | 1841   | 3192    | 11.62    | 17.69  | TO         | 15.51        |
| 297   | Network.75-14-7-q.cnf               | 924    | 577     | 13.83    | 0.47   | TO         | 13.76        |
| 298   | logistics.log-5.cnf                 | 2701   | 12460   | 5.39     | 18.05  | TO         | 12.75        |
| 299   | BN_78.erg.cnf                       | 622    | 1462    | 11.08    | 189.22 | TO         | 12.62        |
| 300   | Network.50-10-4-q.cnf               | 460    | 441     | 8.76     | 0.46   | 312.38     | 12.42        |
| 301   | Network.90-25-4-q.cnf               | 3025   | 1064    | 11.82    | 0.29   | TO         | 11.66        |
| 302   | Network.mastermind_03_08_05.net.cnf | 7564   | 10412   | 11.14    | 28.68  | TO         | 11.30        |
| 303   | Network.75-16-8-q.cnf               | 1216   | 703     | 12.82    | 1.31   | TO         | 11.26        |
| 304   | or_chain_48.fg.uai.cnf              | 3346   | 3943    | 25.39    | 1.42   | TO         | 10.91        |
| 305   | random.uf250-049.cnf                | 250    | 1029    | 13.25    | 4.39   | 399.38     | 10.85        |
| 306   | Configuration.C209.FC.cnf           | 1922   | 3207    | 8.37     | 6.19   | TO         | 10.02        |
| 307   | GEOM30a_4.wcsp.uai.cnf              | 282    | 1506    | 9.44     | 9.79   | TO         | 10.00        |
| 308   | ProcessBean.sk_8_64.cnf             | 4768   | 6900    | 8.99     | 1.12   | TO         | 10.00        |
| 309   | random.uf250-019.cnf                | 250    | 1021    | 12.03    | 15.03  | 465.86     | 9.52         |
| 310   | prob005.pddl.cnf.uai.cnf            | 5576   | 15265   | 7.99     | 13.95  | TO         | 9.35         |
| 311   | 02A-2.cnf                           | 3857   | 7650    | 70.17    | 340.47 | 75.36      | 8.75         |
| 312   | prob012.pddl.cnf.uai.cnf            | 4858   | 9282    | 6.09     | 74.63  | TO         | 8.62         |
| 313   | Network.75-14-8-q.cnf               | 924    | 548     | 10.30    | 0.78   | TO         | 8.37         |

| S. no | Benchmark                           | Vars   | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------------|--------|---------|----------|--------|------------|--------------|
| 314   | Configuration.C203_FCL.cnf          | 1914   | 3106    | 8.40     | 8.86   | TO         | 8.17         |
| 315   | blasted_squaring7.cnf               | 1628   | 3807    | 9.72     | 745.26 | 434.67     | 8.08         |
| 316   | log-5.cnf.uai.cnf                   | 5576   | 15265   | 8.09     | 13.02  | TO         | 7.96         |
| 317   | Configuration.C140_FV.cnf           | 1843   | 3269    | 7.49     | 12.00  | TO         | 7.64         |
| 318   | random.uf250-035.cnf                | 250    | 1024    | 8.59     | 3.20   | 315.61     | 7.60         |
| 319   | BN_32.erg.cnf                       | 3867   | 3550    | 1.70     | 1.28   | TO         | 7.52         |
| 320   | random.uf250-073.cnf                | 250    | 1025    | 5.55     | 2.33   | 203.70     | 7.22         |
| 321   | Network.90-30-2-q.cnf               | 4380   | 1458    | 7.59     | 0.66   | TO         | 6.94         |
| 322   | bmc.bmc-galileo-9.cnf               | 63624  | 75589   | 20.35    | TO     | TO         | 6.64         |
| 323   | Network.75-14-4-q.cnf               | 924    | 571     | 4.28     | 1.11   | TO         | 6.36         |
| 324   | Planning.prob012.pddl.cnf           | 2324   | 6742    | 8.23     | 105.89 | TO         | 6.31         |
| 325   | Network.90-34-6-q.cnf               | 5644   | 1816    | 7.05     | 0.71   | TO         | 6.03         |
| 326   | Network.50-10-5-q.cnf               | 460    | 369     | 5.67     | 0.29   | 303.55     | 5.99         |
| 327   | Network.90-38-2-q.cnf               | 7068   | 2265    | 1.89     | 1.33   | TO         | 5.79         |
| 328   | Network.90-30-9-q.cnf               | 4380   | 1481    | 9.55     | 0.89   | TO         | 5.71         |
| 329   | Network.90-25-9-q.cnf               | 3025   | 1176    | 3.90     | 0.31   | TO         | 5.70         |
| 330   | Network.blockmap_22_03.net.cnf      | 119003 | 131263  | 5.12     | 8.55   | 2266.84    | 5.58         |
| 331   | Configuration.C230_FR.cnf           | 1808   | 3097    | 5.57     | 8.07   | TO         | 5.47         |
| 332   | Planning.prob005.pddl.cnf           | 2701   | 12460   | 5.49     | 18.35  | TO         | 5.04         |
| 333   | or_chain_45.fg.uai.cnf              | 3156   | 3556    | 27.36    | 1.80   | TO         | 5.03         |
| 334   | Handmade.qg7-13.cnf                 | 2197   | 16423   | 5.98     | 0.91   | 31.22      | 4.97         |
| 335   | Network.mastermind_04_08_04.net.cnf | 5484   | 7619    | 4.68     | 15.96  | TO         | 4.91         |
| 336   | 06A-2.cnf                           | 3857   | 7164    | 9.44     | TO     | 67.57      | 4.90         |
| 337   | Handmade.ais10.cnf                  | 181    | 2377    | 4.74     | 2.22   | 1425.08    | 4.72         |
| 338   | Promedus_16.uai.cnf                 | 3156   | 3556    | 26.51    | 1.61   | TO         | 4.46         |
| 339   | Network.75-12-5-q.cnf               | 672    | 430     | 3.41     | 0.36   | 682.05     | 4.29         |
| 340   | Network.90-34-4-q.cnf               | 5644   | 1924    | 1.66     | 1.69   | TO         | 4.21         |
| 341   | or_chain_236.fg.uai.cnf             | 4240   | 4895    | 3.38     | 4.09   | TO         | 3.70         |
| 342   | Promedus_37.uai.cnf                 | 4240   | 4895    | 3.33     | 4.24   | TO         | 3.67         |
| 343   | Network.75-15-10-q.cnf              | 1065   | 661     | 3.87     | 0.42   | TO         | 3.47         |
| 344   | sort.sk_8_52.cnf                    | 12125  | 16398   | 2.64     | 3.31   | TO         | 3.03         |
| 345   | Network.75-12-6-q.cnf               | 672    | 471     | 3.81     | 0.40   | 655.27     | 2.99         |
| 346   | Network.75-14-3-q.cnf               | 924    | 508     | 1.90     | 0.57   | TO         | 2.78         |
| 347   | Configuration.C140_FC.cnf           | 1828   | 2992    | 2.54     | 15.04  | TO         | 2.65         |
| 348   | Configuration.C215_FC.cnf           | 1848   | 3115    | 2.25     | 11.51  | TO         | 2.61         |

| S. no | Benchmark                           | Vars   | Clauses | SharpSAT | D4    | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------------|--------|---------|----------|-------|------------|--------------|
| 349   | Network.blockmap_22.02.net.cnf      | 113870 | 125082  | 2.51     | 1.74  | 137.31     | 2.46         |
| 350   | 09A-3.cnf                           | 9421   | 13250   | TO       | 3.86  | 27.60      | 2.45         |
| 351   | Promedus_22.uai.cnf                 | 1587   | 1834    | 5.97     | 1.75  | TO         | 2.42         |
| 352   | Network.75-15-9-q.cnf               | 1065   | 613     | 2.37     | 0.85  | TO         | 2.39         |
| 353   | Network.75-14-5-q.cnf               | 924    | 535     | 1.99     | 0.36  | TO         | 2.36         |
| 354   | Network.90-34-2-q.cnf               | 5644   | 1859    | 2.52     | 0.80  | TO         | 2.36         |
| 355   | or_chain_85.fg.uai.cnf              | 1587   | 1834    | 5.99     | 1.89  | TO         | 2.36         |
| 356   | ProjectService3.sk_12.55.cnf        | 3175   | 6099    | 2.44     | 8.17  | TO         | 2.27         |
| 357   | Network.75-16-6-q.cnf               | 1216   | 685     | 1.85     | 0.63  | TO         | 2.19         |
| 358   | Network.90-30-6-q.cnf               | 4380   | 1446    | 1.54     | 0.52  | TO         | 2.13         |
| 359   | Handmade.qg4-09.cnf                 | 729    | 4524    | 1.85     | 1.31  | 167.01     | 2.08         |
| 360   | Network.mastermind_06-08.03.net.cnf | 3979   | 5632    | 1.82     | 7.36  | TO         | 2.00         |
| 361   | Network.blockmap_22.01.net.cnf      | 108698 | 115969  | 1.96     | 0.18  | 19.13      | 1.95         |
| 362   | Network.blockmap_20.03.net.cnf      | 86889  | 91049   | 1.94     | 3.53  | TO         | 1.93         |
| 363   | bmc.bmc-ibm-5.cnf                   | 9396   | 10675   | 2.16     | 15.48 | 1499.15    | 1.87         |
| 364   | Promedus_30.uai.cnf                 | 1341   | 1512    | 6.52     | 0.51  | TO         | 1.87         |
| 365   | Network.90-21-10-q.cnf              | 2121   | 791     | 1.53     | 0.29  | TO         | 1.86         |
| 366   | random.uf250-044.cnf                | 250    | 1013    | 2.06     | 0.83  | 160.09     | 1.84         |
| 367   | Network.90-38-9-q.cnf               | 7068   | 2061    | 1.14     | 0.49  | TO         | 1.68         |
| 368   | rb.cnf.uai.cnf                      | 4368   | 13010   | 1.21     | 4.36  | TO         | 1.58         |
| 369   | Network.90-30-10-q.cnf              | 4380   | 1497    | 1.77     | 0.37  | TO         | 1.53         |
| 370   | Network.90-30-4-q.cnf               | 4380   | 1371    | 1.06     | 0.26  | TO         | 1.52         |
| 371   | circuit.rb.cnf                      | 1854   | 10496   | 1.07     | 2.74  | TO         | 1.41         |
| 372   | Configuration.C638_FKA.cnf          | 1787   | 2347    | 1.09     | 0.91  | TO         | 1.39         |
| 373   | c880.isc.cnf.uai.cnf                | 834    | 1056    | 1.37     | 1.37  | 3.40       | 1.25         |
| 374   | Network.blockmap_20.02.net.cnf      | 82786  | 86552   | 1.25     | 0.49  | 36.05      | 1.21         |
| 375   | log-4.cnf.uai.cnf                   | 4779   | 6515    | 1.32     | 3.20  | TO         | 1.15         |
| 376   | random.uf250-081.cnf                | 250    | 942     | 1.01     | 0.37  | 63.52      | 1.13         |
| 377   | random.uf250-06.cnf                 | 250    | 978     | 0.79     | 0.58  | 74.32      | 1.12         |
| 378   | Network.75-14-6-q.cnf               | 924    | 516     | 0.87     | 0.19  | TO         | 1.07         |
| 379   | or_chain_165.fg.uai.cnf             | 1341   | 1512    | 6.28     | 0.50  | TO         | 1.07         |
| 380   | Network.blockmap_20.01.net.cnf      | 78650  | 81727   | 1.04     | 0.07  | 11.16      | 1.04         |
| 381   | Network.90-26-3-q.cnf               | 3276   | 1088    | 0.89     | 0.22  | TO         | 0.99         |
| 382   | Network.75-12-8-q.cnf               | 672    | 410     | 0.86     | 0.25  | 700.29     | 0.98         |
| 383   | prob004.pddl.cnf.uai.cnf            | 4779   | 6515    | 1.27     | 2.98  | TO         | 0.96         |

| S. no | Benchmark                           | Vars  | Clauses | SharpSAT | D4      | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------------|-------|---------|----------|---------|------------|--------------|
| 384   | Network.90-25-6-q.cnf               | 3025  | 992     | 1.06     | 0.27    | TO         | 0.95         |
| 385   | Configuration.C163.FW.cnf           | 1815  | 2678    | 1.03     | 1.99    | TO         | 0.93         |
| 386   | Network.mastermind_05_08_03.net.cnf | 3502  | 4894    | 0.72     | 2.87    | TO         | 0.93         |
| 387   | Configuration.C209_FA.cnf           | 1885  | 2856    | 0.79     | 1.21    | TO         | 0.90         |
| 388   | Network.mastermind_03_08_04.net.cnf | 4720  | 6428    | 0.73     | 2.55    | TO         | 0.85         |
| 389   | BN_40.erg.cnf                       | 3864  | 3527    | 0.75     | 4.64    | TO         | 0.79         |
| 390   | 1502.wcsp.uai.cnf                   | 1444  | 2468    | 1.28     | 0.46    | TO         | 0.77         |
| 391   | or_chain_72.fg.uai.cnf              | 2118  | 2519    | 0.71     | 4.34    | TO         | 0.76         |
| 392   | logistics.logistics.b.cnf           | 843   | 1846    | 0.79     | 1.89    | TO         | 0.74         |
| 393   | logistics.log-4.cnf                 | 2303  | 4107    | 0.70     | 2.50    | TO         | 0.73         |
| 394   | logistics.b.cnf.uai.cnf             | 1686  | 2676    | 0.64     | 2.22    | TO         | 0.72         |
| 395   | Planning.prob004.pddl.cnf           | 2303  | 4107    | 0.70     | 2.44    | TO         | 0.72         |
| 396   | Promedus_20.uai.cnf                 | 2118  | 2519    | 0.70     | 4.22    | TO         | 0.72         |
| 397   | circuit.s1423.bench.cnf             | 748   | 907     | 0.57     | 0.41    | 8.46       | 0.70         |
| 398   | Network.90-22-5-q.cnf               | 2332  | 859     | 0.51     | 0.15    | TO         | 0.69         |
| 399   | s13207a_15_7.cnf                    | 9455  | 11598   | 0.66     | 1337.47 | TO         | 0.69         |
| 400   | or_chain_10.fg.uai.cnf              | 1769  | 2138    | 3.71     | 50.86   | TO         | 0.66         |
| 401   | Configuration.C210_FVF.cnf          | 1934  | 2794    | 0.58     | 2.17    | TO         | 0.64         |
| 402   | Promedus_11.uai.cnf                 | 1769  | 2138    | 3.72     | 50.09   | TO         | 0.64         |
| 403   | Configuration.C211_FW.cnf           | 1665  | 2646    | 0.51     | 0.53    | TO         | 0.62         |
| 404   | relational_2.uai.cnf                | 77500 | 89750   | 0.55     | 1.37    | TO         | 0.62         |
| 405   | GEOM30a_3.wcsp.uai.cnf              | 252   | 839     | 0.46     | 6.02    | TO         | 0.61         |
| 406   | s13207a_7_4.cnf                     | 9386  | 11483   | 0.65     | TO      | TO         | 0.61         |
| 407   | bmc.bmc-ibm-10.cnf                  | 59056 | 60788   | 0.63     | 0.49    | TO         | 0.58         |
| 408   | Planning.4blocks.cnf                | 758   | 6467    | 0.70     | 1.17    | 74.33      | 0.58         |
| 409   | Planning.prob004-log-a.cnf          | 1790  | 3500    | 0.73     | 1.12    | TO         | 0.58         |
| 410   | Network.75-12-1-q.cnf               | 672   | 413     | 0.43     | 0.19    | 596.35     | 0.54         |
| 411   | Network.90-25-3-q.cnf               | 3025  | 1065    | 0.44     | 0.13    | TO         | 0.52         |
| 412   | Network.90-38-4-q.cnf               | 7068  | 2118    | 0.47     | 0.70    | TO         | 0.51         |
| 413   | circuit.2bitmax_6.cnf               | 252   | 610     | 0.33     | 1.16    | 162.48     | 0.50         |
| 414   | 2bitmax_6.cnf.uai.cnf               | 564   | 922     | 0.37     | 1.08    | 633.73     | 0.48         |
| 415   | Network.90-23-1-q.cnf               | 2553  | 885     | 0.33     | 0.24    | TO         | 0.48         |
| 416   | 90-24-1.erg.cnf                     | 1590  | 1499    | 0.36     | 0.20    | TO         | 0.47         |
| 417   | bmc.bmc-ibm-6.cnf                   | 51639 | 51815   | 0.45     | 0.21    | TO         | 0.47         |
| 418   | circuit.ra.cnf                      | 1236  | 11416   | 0.31     | 0.91    | TO         | 0.46         |

| S. no | Benchmark                      | Vars  | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|-------|---------|----------|------|------------|--------------|
| 419   | ra.cnf.uai.cnf                 | 2472  | 12652   | 0.31     | 1.29 | TO         | 0.46         |
| 420   | Network.90-17-4-q.cnf          | 1377  | 539     | 0.28     | 0.14 | TO         | 0.45         |
| 421   | Network.75-14-2-q.cnf          | 924   | 500     | 0.36     | 0.17 | TO         | 0.41         |
| 422   | Network.90-23-7-q.cnf          | 2553  | 810     | 0.34     | 0.08 | TO         | 0.40         |
| 423   | random.uf250-025.cnf           | 250   | 929     | 0.41     | 0.38 | 33.44      | 0.40         |
| 424   | BN_41.erg.cnf                  | 3891  | 3497    | 0.31     | 0.34 | TO         | 0.37         |
| 425   | random.uf250-016.cnf           | 250   | 947     | 0.34     | 0.63 | 53.06      | 0.37         |
| 426   | 90-30-1e60.erg.cnf             | 2426  | 2262    | 0.16     | 0.17 | TO         | 0.36         |
| 427   | random.uf250-033.cnf           | 250   | 959     | 0.28     | 0.23 | 30.69      | 0.36         |
| 428   | random.uf250-088.cnf           | 250   | 937     | 0.53     | 0.21 | 38.19      | 0.35         |
| 429   | Network.90-21-2-q.cnf          | 2121  | 764     | 0.32     | 0.18 | TO         | 0.34         |
| 430   | 90-24-1e20.erg.cnf             | 1590  | 1500    | 0.38     | 0.39 | TO         | 0.33         |
| 431   | Configuration.C638_FKB.cnf     | 1784  | 2281    | 0.26     | 0.55 | TO         | 0.33         |
| 432   | Network.90-15-2-q.cnf          | 1065  | 468     | 0.13     | 0.10 | TO         | 0.32         |
| 433   | Network.90-20-2-q.cnf          | 1920  | 698     | 0.16     | 0.12 | TO         | 0.30         |
| 434   | Network.90-24-7-q.cnf          | 2784  | 922     | 0.25     | 0.18 | TO         | 0.29         |
| 435   | Network.blockmap_15_03.net.cnf | 37709 | 37960   | 0.27     | 0.22 | 4595.40    | 0.27         |
| 436   | BN_79.erg.cnf                  | 564   | 577     | 0.25     | 0.99 | TO         | 0.26         |
| 437   | Configuration.C171_FR.cnf      | 1758  | 2793    | 0.23     | 1.05 | TO         | 0.26         |
| 438   | Network.90-25-10-q.cnf         | 3025  | 977     | 0.16     | 0.12 | TO         | 0.26         |
| 439   | s13207a_3_2.cnf                | 9368  | 11212   | 0.18     | 2.25 | TO         | 0.26         |
| 440   | circuit.s1196.bench.cnf        | 560   | 1153    | 0.17     | 0.42 | 1.71       | 0.25         |
| 441   | Network.75-12-3-q.cnf          | 672   | 418     | 0.22     | 0.13 | 635.47     | 0.25         |
| 442   | random.uf250-015.cnf           | 250   | 946     | 0.24     | 0.19 | 34.44      | 0.24         |
| 443   | 90-26-1e40.erg.cnf             | 1834  | 1769    | 0.21     | 0.34 | TO         | 0.23         |
| 444   | random.uf250-042.cnf           | 250   | 938     | 0.24     | 0.12 | 18.10      | 0.23         |
| 445   | Network.blockmap_15_02.net.cnf | 35386 | 35504   | 0.23     | 0.03 | 61.95      | 0.22         |
| 446   | random.uf250-066.cnf           | 250   | 912     | 0.22     | 0.28 | 28.56      | 0.22         |
| 447   | random.uf250-074.cnf           | 250   | 758     | 0.14     | 0.49 | 37.01      | 0.22         |
| 448   | 90-26-1e20.erg.cnf             | 1834  | 1769    | 0.20     | 0.36 | TO         | 0.21         |
| 449   | 90-30-1e80.erg.cnf             | 2426  | 2262    | 0.16     | 0.21 | TO         | 0.21         |
| 450   | bmc.bmc-ibm-1.cnf              | 9685  | 10597   | 0.25     | 0.54 | TO         | 0.21         |
| 451   | Network.90-26-4-q.cnf          | 3276  | 1098    | 0.18     | 0.22 | TO         | 0.21         |
| 452   | circuit.s1238.bench.cnf        | 539   | 1234    | 0.19     | 0.50 | 2.62       | 0.20         |
| 453   | Network.blockmap_15_01.net.cnf | 33035 | 33061   | 0.20     | 0.02 | 2.66       | 0.20         |

| S. no | Benchmark                      | Vars  | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|-------|---------|----------|------|------------|--------------|
| 454   | Network.75-12-2-q.cnf          | 672   | 432     | 0.22     | 0.10 | 668.35     | 0.19         |
| 455   | Network.90-30-7-q.cnf          | 4380  | 1446    | 0.19     | 0.20 | TO         | 0.19         |
| 456   | random.uf250-089.cnf           | 250   | 861     | 0.16     | 0.65 | 39.79      | 0.17         |
| 457   | bmc.bmc-ibm-4.cnf              | 28161 | 28254   | 0.17     | 0.17 | 122.17     | 0.16         |
| 458   | c499.isc.erg.cnf               | 1072  | 1238    | 0.14     | 0.12 | 1.33       | 0.16         |
| 459   | random.uf250-064.cnf           | 250   | 925     | 0.09     | 0.20 | 18.49      | 0.16         |
| 460   | random.uf250-039.cnf           | 250   | 894     | 0.12     | 0.18 | 19.59      | 0.15         |
| 461   | Network.90-19-1-q.cnf          | 1729  | 618     | 0.13     | 0.12 | TO         | 0.14         |
| 462   | Network.90-22-2-q.cnf          | 2332  | 799     | 0.13     | 0.14 | TO         | 0.14         |
| 463   | Network.90-25-8-q.cnf          | 3025  | 1062    | 0.06     | 0.26 | TO         | 0.14         |
| 464   | random.uf250-055.cnf           | 250   | 924     | 0.16     | 0.11 | 19.35      | 0.14         |
| 465   | c432.isc.cnf.uai.cnf           | 392   | 563     | 0.10     | 0.02 | 1.04       | 0.13         |
| 466   | circuit.c432.isc.cnf           | 196   | 367     | 0.10     | 0.02 | 1.04       | 0.12         |
| 467   | Network.90-23-8-q.cnf          | 2553  | 846     | 0.10     | 0.10 | TO         | 0.12         |
| 468   | Network.90-25-5-q.cnf          | 3025  | 1015    | 0.08     | 0.07 | TO         | 0.12         |
| 469   | Network.75-15-4-q.cnf          | 1065  | 546     | 0.15     | 0.12 | TO         | 0.11         |
| 470   | Network.90-26-5-q.cnf          | 3276  | 1146    | 0.10     | 0.18 | TO         | 0.11         |
| 471   | Network.blockmap_10.03.net.cnf | 13786 | 15927   | 0.09     | 0.20 | 14.35      | 0.11         |
| 472   | Promedus_28.uai.cnf            | 1757  | 2069    | 0.12     | 0.30 | TO         | 0.11         |
| 473   | Network.75-10-9-q.cnf          | 460   | 310     | 0.11     | 0.06 | 288.18     | 0.10         |
| 474   | Network.75-12-7-q.cnf          | 672   | 378     | 0.12     | 0.05 | 659.21     | 0.10         |
| 475   | Network.90-23-5-q.cnf          | 2553  | 896     | 0.08     | 0.11 | TO         | 0.10         |
| 476   | Network.90-25-1-q.cnf          | 3025  | 988     | 0.05     | 0.08 | TO         | 0.10         |
| 477   | Network.90-26-10-q.cnf         | 3276  | 1067    | 0.13     | 0.17 | TO         | 0.10         |
| 478   | or_chain_148.fg.uai.cnf        | 1757  | 2069    | 0.12     | 0.30 | TO         | 0.10         |
| 479   | BN_108.erg.cnf                 | 1845  | 3304    | 0.09     | 0.21 | TO         | 0.09         |
| 480   | BN_109.erg.cnf                 | 1845  | 3304    | 0.09     | 0.23 | TO         | 0.09         |
| 481   | BN_37.erg.cnf                  | 3950  | 3476    | 0.08     | 0.16 | TO         | 0.09         |
| 482   | Network.90-24-9-q.cnf          | 2784  | 835     | 0.10     | 0.08 | TO         | 0.09         |
| 483   | Promedus_12.uai.cnf            | 1944  | 2349    | 0.08     | 0.53 | TO         | 0.09         |
| 484   | Network.75-10-5-q.cnf          | 460   | 256     | 0.07     | 0.04 | 271.48     | 0.08         |
| 485   | Network.90-20-5-q.cnf          | 1920  | 668     | 0.08     | 0.07 | TO         | 0.08         |
| 486   | Network.90-21-7-q.cnf          | 2121  | 677     | 0.06     | 0.07 | TO         | 0.08         |
| 487   | or_chain_152.fg.uai.cnf        | 1895  | 2114    | 0.07     | 0.18 | TO         | 0.08         |
| 488   | or_chain_17.fg.uai.cnf         | 1944  | 2349    | 0.07     | 0.56 | TO         | 0.08         |

| S. no | Benchmark                      | Vars  | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|-------|---------|----------|------|------------|--------------|
| 489   | or_chain_182.fg.uai.cnf        | 1537  | 1843    | 0.10     | 0.31 | TO         | 0.08         |
| 490   | Promedus_29.uai.cnf            | 1895  | 2114    | 0.08     | 0.16 | TO         | 0.08         |
| 491   | Promedus_34.uai.cnf            | 1537  | 1843    | 0.11     | 0.30 | TO         | 0.08         |
| 492   | Network.blockmap_10_02.net.cnf | 12562 | 14596   | 0.06     | 0.07 | 5.76       | 0.07         |
| 493   | or_chain_147.fg.uai.cnf        | 1537  | 1830    | 0.13     | 0.27 | TO         | 0.07         |
| 494   | Planning.prob002.pddl.cnf      | 1337  | 5024    | 0.06     | 0.33 | 94.71      | 0.07         |
| 495   | Promedus_26.uai.cnf            | 2704  | 3010    | 0.06     | 0.10 | TO         | 0.07         |
| 496   | Promedus_27.uai.cnf            | 1537  | 1830    | 0.13     | 0.28 | TO         | 0.07         |
| 497   | random.uf250-085.cnf           | 250   | 892     | 0.07     | 0.11 | 12.84      | 0.07         |
| 498   | log-2.cnf.uai.cnf              | 2777  | 6393    | 0.05     | 0.35 | 72.15      | 0.06         |
| 499   | logistics.log-2.cnf            | 1337  | 5024    | 0.06     | 0.35 | 91.62      | 0.06         |
| 500   | logistics.logistics.a.cnf      | 828   | 1605    | 0.07     | 0.25 | 984.79     | 0.06         |
| 501   | Network.90-18-1-q.cnf          | 1548  | 584     | 0.05     | 0.05 | TO         | 0.06         |
| 502   | Network.90-20-3-q.cnf          | 1920  | 664     | 0.06     | 0.06 | TO         | 0.06         |
| 503   | Network.90-22-10-q.cnf         | 2332  | 816     | 0.05     | 0.08 | TO         | 0.06         |
| 504   | or_chain_176.fg.uai.cnf        | 2043  | 2336    | 0.09     | 0.18 | TO         | 0.06         |
| 505   | prob002.pddl.cnf.uai.cnf       | 2777  | 6393    | 0.06     | 0.35 | 92.67      | 0.06         |
| 506   | bmc.bmc-ibm-3.cnf              | 14930 | 14876   | 0.05     | 0.01 | 4.62       | 0.05         |
| 507   | logistics.a.cnf.uai.cnf        | 1656  | 2435    | 0.06     | 0.29 | 500.45     | 0.05         |
| 508   | Network.75-12-4-q.cnf          | 672   | 348     | 0.05     | 0.07 | 692.70     | 0.05         |
| 509   | Network.90-24-5-q.cnf          | 2784  | 884     | 0.07     | 0.09 | TO         | 0.05         |
| 510   | or_chain_74.fg.uai.cnf         | 1686  | 2032    | 0.03     | 0.17 | TO         | 0.05         |
| 511   | Promedus_32.uai.cnf            | 2043  | 2336    | 0.09     | 0.18 | TO         | 0.05         |
| 512   | random.uf250-012.cnf           | 250   | 422     | 0.03     | 0.07 | 11.70      | 0.05         |
| 513   | random.uf250-047.cnf           | 250   | 899     | 0.06     | 0.05 | 9.15       | 0.05         |
| 514   | random.uf250-083.cnf           | 250   | 881     | 0.05     | 0.06 | 8.71       | 0.05         |
| 515   | relational_3.uai.cnf           | 6000  | 8000    | 0.05     | 0.12 | TO         | 0.05         |
| 516   | bmc.bmc-ibm-13.cnf             | 13215 | 13373   | 0.05     | 0.11 | 24.41      | 0.04         |
| 517   | BN_33.erg.cnf                  | 3886  | 3499    | 0.04     | 0.20 | TO         | 0.04         |
| 518   | Handmade.ais8.cnf              | 113   | 1119    | 0.03     | 0.03 | 2.04       | 0.04         |
| 519   | Network.75-10-8-q.cnf          | 460   | 280     | 0.03     | 0.04 | 310.45     | 0.04         |
| 520   | Network.90-14-5-q.cnf          | 924   | 374     | 0.03     | 0.03 | TO         | 0.04         |
| 521   | Network.90-16-1-q.cnf          | 1216  | 469     | 0.04     | 0.11 | TO         | 0.04         |
| 522   | Network.90-18-5-q.cnf          | 1548  | 560     | 0.02     | 0.03 | TO         | 0.04         |
| 523   | or_chain_139.fg.uai.cnf        | 2704  | 3010    | 0.07     | 0.10 | TO         | 0.04         |

| S. no | Benchmark                      | Vars  | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|-------|---------|----------|------|------------|--------------|
| 524   | or_chain_201.fg.uai.cnf        | 1661  | 2006    | 0.04     | 0.12 | TO         | 0.04         |
| 525   | or_chain_225.fg.uai.cnf        | 1661  | 2006    | 0.04     | 0.11 | TO         | 0.04         |
| 526   | Promedus_21.uai.cnf            | 1686  | 2032    | 0.04     | 0.17 | TO         | 0.04         |
| 527   | Promedus_31.uai.cnf            | 1661  | 2004    | 0.04     | 0.11 | TO         | 0.04         |
| 528   | Promedus_35.uai.cnf            | 1661  | 2006    | 0.03     | 0.12 | TO         | 0.04         |
| 529   | Promedus_36.uai.cnf            | 1661  | 2006    | 0.04     | 0.11 | TO         | 0.04         |
| 530   | random.uf250-068.cnf           | 250   | 848     | 0.04     | 0.08 | 11.19      | 0.04         |
| 531   | random.uf250-078.cnf           | 250   | 844     | 0.05     | 0.05 | 7.14       | 0.04         |
| 532   | random.uf250-08.cnf            | 250   | 860     | 0.05     | 0.10 | 11.40      | 0.04         |
| 533   | 2bitcomp_5.cnf.uai.cnf         | 280   | 345     | 0.01     | 0.18 | 6.56       | 0.03         |
| 534   | 90-16-1.erg.cnf                | 738   | 719     | 0.03     | 0.03 | TO         | 0.03         |
| 535   | Handmade.qg1-08.cnf            | 512   | 3647    | 0.04     | 0.03 | 0.15       | 0.03         |
| 536   | log-3.cnf.uai.cnf              | 2949  | 4780    | 0.02     | 0.07 | 429.30     | 0.03         |
| 537   | Network.75-12-10-q.cnf         | 672   | 357     | 0.03     | 0.02 | 749.91     | 0.03         |
| 538   | Network.75-12-9-q.cnf          | 672   | 363     | 0.03     | 0.05 | 719.71     | 0.03         |
| 539   | Network.90-22-3-q.cnf          | 2332  | 753     | 0.03     | 0.07 | TO         | 0.03         |
| 540   | Network.90-22-7-q.cnf          | 2332  | 818     | 0.02     | 0.05 | TO         | 0.03         |
| 541   | Network.90-23-3-q.cnf          | 2553  | 769     | 0.03     | 0.03 | TO         | 0.03         |
| 542   | Network.90-24-3-q.cnf          | 2784  | 901     | 0.03     | 0.07 | TO         | 0.03         |
| 543   | Network.90-24-4-q.cnf          | 2784  | 892     | 0.03     | 0.06 | TO         | 0.03         |
| 544   | Network.blockmap_10_01.net.cnf | 11328 | 12724   | 0.03     | 0.02 | 1.37       | 0.03         |
| 545   | or_chain_168.fg.uai.cnf        | 1661  | 2004    | 0.04     | 0.12 | TO         | 0.03         |
| 546   | or_chain_42.fg.uai.cnf         | 1385  | 1669    | 0.02     | 0.17 | TO         | 0.03         |
| 547   | Planning.prob003.pddl.cnf      | 1413  | 3414    | 0.03     | 0.09 | 330.67     | 0.03         |
| 548   | Promedus_15.uai.cnf            | 1385  | 1669    | 0.03     | 0.17 | TO         | 0.03         |
| 549   | smokers_10.uai.cnf             | 690   | 850     | 0.04     | 0.19 | TO         | 0.03         |
| 550   | BN_30.erg.cnf                  | 3139  | 2817    | 0.02     | 0.07 | TO         | 0.02         |
| 551   | circuit.2bitcomp_5.cnf         | 125   | 190     | 0.02     | 0.10 | 6.83       | 0.02         |
| 552   | circuit.s1488.bench.cnf        | 667   | 1542    | 0.01     | 0.04 | 0.82       | 0.02         |
| 553   | Configuration.C638_FVK.cnf     | 1761  | 2002    | 0.02     | 0.24 | TO         | 0.02         |
| 554   | logistics.log-3.cnf            | 1413  | 3414    | 0.03     | 0.09 | 353.38     | 0.02         |
| 555   | Network.75-10-2-q.cnf          | 460   | 287     | 0.01     | 0.03 | 299.15     | 0.02         |
| 556   | Network.75-10-7-q.cnf          | 460   | 281     | 0.02     | 0.03 | 265.14     | 0.02         |
| 557   | Network.90-12-7-q.cnf          | 672   | 301     | 0.01     | 0.03 | 738.22     | 0.02         |
| 558   | Network.90-18-10-q.cnf         | 1548  | 515     | 0.00     | 0.03 | TO         | 0.02         |



| S. no | Benchmark                 | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|---------------------------|------|---------|----------|------|------------|--------------|
| 559   | Network.90-18-3-q.cnf     | 1548 | 521     | 0.02     | 0.01 | TO         | 0.02         |
| 560   | Network.90-18-6-q.cnf     | 1548 | 536     | 0.01     | 0.02 | TO         | 0.02         |
| 561   | Network.90-19-10-q.cnf    | 1729 | 632     | 0.02     | 0.04 | TO         | 0.02         |
| 562   | Network.90-19-2-q.cnf     | 1729 | 612     | 0.02     | 0.03 | TO         | 0.02         |
| 563   | Network.90-19-6-q.cnf     | 1729 | 604     | 0.01     | 0.03 | TO         | 0.02         |
| 564   | Network.90-20-8-q.cnf     | 1920 | 619     | 0.01     | 0.04 | TO         | 0.02         |
| 565   | Network.90-20-9-q.cnf     | 1920 | 603     | 0.01     | 0.02 | TO         | 0.02         |
| 566   | Network.90-21-5-q.cnf     | 2121 | 760     | 0.04     | 0.02 | TO         | 0.02         |
| 567   | Network.90-21-9-q.cnf     | 2121 | 706     | 0.01     | 0.05 | TO         | 0.02         |
| 568   | Network.90-22-9-q.cnf     | 2332 | 737     | 0.01     | 0.04 | TO         | 0.02         |
| 569   | Network.90-23-10-q.cnf    | 2553 | 831     | 0.01     | 0.03 | TO         | 0.02         |
| 570   | Network.90-23-6-q.cnf     | 2553 | 784     | 0.03     | 0.07 | TO         | 0.02         |
| 571   | Network.90-24-10-q.cnf    | 2784 | 853     | 0.02     | 0.04 | TO         | 0.02         |
| 572   | or_chain_180.fg.uai.cnf   | 1641 | 1837    | 0.02     | 0.08 | TO         | 0.02         |
| 573   | Planning.tire-3.cnf       | 577  | 751     | 0.00     | 0.09 | 282.39     | 0.02         |
| 574   | Planning.tire-4.cnf       | 812  | 937     | 0.01     | 0.02 | 126.18     | 0.02         |
| 575   | prob003.pddl.cnf.uai.cnf  | 2949 | 4780    | 0.03     | 0.07 | 408.41     | 0.02         |
| 576   | Promedus_33.uai.cnf       | 1641 | 1837    | 0.02     | 0.08 | TO         | 0.02         |
| 577   | random.uf250-061.cnf      | 250  | 380     | 0.02     | 0.06 | 16.91      | 0.02         |
| 578   | random.uf250-079.cnf      | 250  | 834     | 0.02     | 0.04 | 5.45       | 0.02         |
| 579   | random.uf250-098.cnf      | 250  | 574     | 0.02     | 0.03 | 14.73      | 0.02         |
| 580   | BN_110.erg.cnf            | 447  | 708     | 0.01     | 0.02 | 264.77     | 0.01         |
| 581   | BN_111.erg.cnf            | 447  | 708     | 0.01     | 0.01 | 244.03     | 0.01         |
| 582   | circuit.s1494.bench.cnf   | 661  | 1384    | 0.01     | 0.02 | 0.63       | 0.01         |
| 583   | circuit.s526n.bench.cnf   | 218  | 410     | 0.01     | 0.01 | 0.46       | 0.01         |
| 584   | circuit.s820.bench.cnf    | 312  | 672     | 0.01     | 0.01 | 0.59       | 0.01         |
| 585   | circuit.s953.bench.cnf    | 417  | 791     | 0.01     | 0.03 | 0.49       | 0.01         |
| 586   | circuit.ssa7552-038.cnf   | 1501 | 1763    | 0.01     | 0.02 | 92.31      | 0.01         |
| 587   | circuit.ssa7552-160.cnf   | 1391 | 1596    | 0.01     | 0.01 | 61.69      | 0.01         |
| 588   | Configuration.C211_FS.cnf | 1635 | 1751    | 0.00     | 0.03 | TO         | 0.01         |
| 589   | Handmade.qg3-08.cnf       | 512  | 1794    | 0.01     | 0.01 | 0.17       | 0.01         |
| 590   | Network.75-10-6-q.cnf     | 460  | 250     | 0.01     | 0.01 | 260.42     | 0.01         |
| 591   | Network.75-14-1-q.cnf     | 924  | 447     | 0.00     | 0.04 | TO         | 0.01         |
| 592   | Network.90-14-10-q.cnf    | 924  | 372     | 0.01     | 0.02 | TO         | 0.01         |
| 593   | Network.90-15-3-q.cnf     | 1065 | 433     | 0.01     | 0.04 | TO         | 0.01         |

| S. no | Benchmark                      | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|------|---------|----------|------|------------|--------------|
| 594   | Network.90-16-9-q.cnf          | 1216 | 451     | 0.00     | 0.02 | TO         | 0.01         |
| 595   | Network.90-17-3-q.cnf          | 1377 | 494     | 0.01     | 0.02 | TO         | 0.01         |
| 596   | Network.90-17-6-q.cnf          | 1377 | 489     | 0.01     | 0.01 | TO         | 0.01         |
| 597   | Network.90-18-7-q.cnf          | 1548 | 486     | 0.01     | 0.03 | TO         | 0.01         |
| 598   | Network.90-18-8-q.cnf          | 1548 | 524     | 0.01     | 0.03 | TO         | 0.01         |
| 599   | Network.90-19-7-q.cnf          | 1729 | 581     | 0.02     | 0.02 | TO         | 0.01         |
| 600   | Network.90-19-8-q.cnf          | 1729 | 544     | 0.01     | 0.02 | TO         | 0.01         |
| 601   | Network.90-20-10-q.cnf         | 1920 | 640     | 0.02     | 0.02 | TO         | 0.01         |
| 602   | Network.90-20-7-q.cnf          | 1920 | 713     | 0.01     | 0.04 | TO         | 0.01         |
| 603   | Network.90-21-1-q.cnf          | 2121 | 667     | 0.00     | 0.04 | TO         | 0.01         |
| 604   | Network.90-21-3-q.cnf          | 2121 | 619     | 0.00     | 0.03 | TO         | 0.01         |
| 605   | Network.90-22-1-q.cnf          | 2332 | 722     | 0.00     | 0.03 | TO         | 0.01         |
| 606   | Network.90-22-4-q.cnf          | 2332 | 699     | 0.00     | 0.01 | TO         | 0.01         |
| 607   | Network.90-22-6-q.cnf          | 2332 | 749     | 0.00     | 0.01 | TO         | 0.01         |
| 608   | Network.90-25-2-q.cnf          | 3025 | 879     | 0.00     | 0.01 | TO         | 0.01         |
| 609   | Network.blockmap_05_03.net.cnf | 2055 | 2205    | 0.00     | 0.01 | 2.59       | 0.01         |
| 610   | Network.sat-grid-pbl-0015.cnf  | 240  | 174     | 0.01     | 0.01 | TO         | 0.01         |
| 611   | or_chain_111.fg.uai.cnf        | 874  | 972     | 0.01     | 0.04 | TO         | 0.01         |
| 612   | or_chain_175.fg.uai.cnf        | 1473 | 1662    | 0.01     | 0.04 | TO         | 0.01         |
| 613   | or_chain_197.fg.uai.cnf        | 1504 | 1697    | 0.00     | 0.03 | TO         | 0.01         |
| 614   | Planning.bw_large.d.cnf        | 6325 | 6365    | 0.02     | 0.00 | 0.28       | 0.01         |
| 615   | Promedus_24.uai.cnf            | 874  | 972     | 0.01     | 0.04 | TO         | 0.01         |
| 616   | random.uf250-0100.cnf          | 250  | 355     | 0.00     | 0.01 | 3.06       | 0.01         |
| 617   | random.uf250-030.cnf           | 250  | 392     | 0.01     | 0.01 | 3.75       | 0.01         |
| 618   | random.uf250-046.cnf           | 250  | 664     | 0.00     | 0.01 | 2.92       | 0.01         |
| 619   | random.uf250-063.cnf           | 250  | 410     | 0.00     | 0.02 | 4.87       | 0.01         |
| 620   | random.uf250-069.cnf           | 250  | 637     | 0.01     | 0.01 | 4.98       | 0.01         |
| 621   | random.uf250-075.cnf           | 250  | 749     | 0.01     | 0.02 | 5.45       | 0.01         |
| 622   | random.uf250-084.cnf           | 250  | 767     | 0.01     | 0.05 | 8.79       | 0.01         |
| 623   | s953.scan.erg.cnf              | 951  | 1010    | 0.01     | 0.01 | 1.55       | 0.01         |
| 624   | 90-10-1.erg.cnf                | 302  | 289     | 0.00     | 0.00 | 20.97      | 0.00         |
| 625   | 90-14-1.erg.cnf                | 522  | 491     | 0.00     | 0.00 | 150.69     | 0.00         |
| 626   | blasted_case10.cnf             | 328  | 381     | 0.00     | 0.01 | 4.60       | 0.00         |
| 627   | blasted_case15.cnf             | 296  | 339     | 0.00     | 0.00 | 4.73       | 0.00         |
| 628   | blasted_case61.cnf             | 282  | 314     | 0.00     | 0.00 | 2.62       | 0.00         |

| S. no | Benchmark                | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------|------|---------|----------|------|------------|--------------|
| 629   | bmc.bmc-ibm-2.cnf        | 2810 | 2831    | 0.01     | 0.01 | 4.35       | 0.00         |
| 630   | BN_104.erg.cnf           | 257  | 297     | 0.00     | 0.00 | 347.73     | 0.00         |
| 631   | BN_105.erg.cnf           | 257  | 297     | 0.00     | 0.00 | 298.36     | 0.00         |
| 632   | BN_106.erg.cnf           | 692  | 336     | 0.00     | 0.00 | 1020.27    | 0.00         |
| 633   | BN_107.erg.cnf           | 692  | 336     | 0.00     | 0.00 | 959.96     | 0.00         |
| 634   | BN_112.erg.cnf           | 398  | 576     | 0.00     | 0.00 | 157.05     | 0.00         |
| 635   | BN_113.erg.cnf           | 398  | 576     | 0.01     | 0.01 | 159.80     | 0.00         |
| 636   | BN_42.erg.cnf            | 1884 | 1849    | 0.00     | 0.01 | 2.87       | 0.00         |
| 637   | BN_43.erg.cnf            | 1988 | 1934    | 0.00     | 0.00 | 2.84       | 0.00         |
| 638   | BN_44.erg.cnf            | 1916 | 1874    | 0.00     | 0.00 | 2.85       | 0.00         |
| 639   | BN_45.erg.cnf            | 1943 | 1893    | 0.00     | 0.00 | 2.84       | 0.00         |
| 640   | BN_46.erg.cnf            | 1066 | 1081    | 0.00     | 0.00 | 1.28       | 0.00         |
| 641   | BN_53.erg.cnf            | 1194 | 1172    | 0.00     | 0.00 | 0.81       | 0.00         |
| 642   | BN_54.erg.cnf            | 1225 | 1223    | 0.00     | 0.00 | 0.79       | 0.00         |
| 643   | BN_55.erg.cnf            | 1199 | 1180    | 0.00     | 0.00 | 0.79       | 0.00         |
| 644   | BN_56.erg.cnf            | 1174 | 1229    | 0.00     | 0.00 | 0.88       | 0.00         |
| 645   | BN_57.erg.cnf            | 1169 | 1140    | 0.00     | 0.00 | 0.75       | 0.00         |
| 646   | BN_59.erg.cnf            | 1134 | 1120    | 0.00     | 0.00 | 0.80       | 0.00         |
| 647   | BN_60.erg.cnf            | 1140 | 1113    | 0.00     | 0.00 | 0.78       | 0.00         |
| 648   | BN_64.erg.cnf            | 1127 | 1105    | 0.00     | 0.00 | 0.87       | 0.00         |
| 649   | BN_65.erg.cnf            | 934  | 912     | 0.00     | 0.00 | 1.67       | 0.00         |
| 650   | BN_66.erg.cnf            | 942  | 920     | 0.00     | 0.00 | 1.55       | 0.00         |
| 651   | BN_67.erg.cnf            | 942  | 974     | 0.00     | 0.00 | 1.55       | 0.00         |
| 652   | BN_68.erg.cnf            | 953  | 995     | 0.01     | 0.01 | 1.62       | 0.00         |
| 653   | c432.isc.erg.cnf         | 927  | 905     | 0.00     | 0.00 | 1.04       | 0.00         |
| 654   | c880.isc.erg.cnf         | 1824 | 1829    | 0.00     | 0.00 | 2.90       | 0.00         |
| 655   | circuit.s400.bench.cnf   | 189  | 218     | 0.00     | 0.00 | 0.43       | 0.00         |
| 656   | circuit.s420.1.bench.cnf | 252  | 288     | 0.00     | 0.00 | 0.88       | 0.00         |
| 657   | circuit.s444.bench.cnf   | 205  | 330     | 0.00     | 0.00 | 0.44       | 0.00         |
| 658   | circuit.s510.bench.cnf   | 236  | 498     | 0.00     | 0.00 | 0.72       | 0.00         |
| 659   | circuit.s526.bench.cnf   | 217  | 391     | 0.01     | 0.01 | 0.44       | 0.00         |
| 660   | circuit.s641.bench.cnf   | 433  | 443     | 0.00     | 0.00 | 2.42       | 0.00         |
| 661   | circuit.s713.bench.cnf   | 447  | 455     | 0.00     | 0.00 | 2.38       | 0.00         |
| 662   | circuit.s832.bench.cnf   | 310  | 666     | 0.01     | 0.01 | 0.43       | 0.00         |
| 663   | circuit.s838.1.bench.cnf | 512  | 651     | 0.00     | 0.01 | 3.71       | 0.00         |

| S. no | Benchmark                   | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-----------------------------|------|---------|----------|------|------------|--------------|
| 664   | circuit.ssa7552-158.cnf     | 1363 | 1495    | 0.00     | 0.01 | 302.82     | 0.00         |
| 665   | circuit.ssa7552-159.cnf     | 1363 | 1550    | 0.01     | 0.01 | 33.00      | 0.00         |
| 666   | Configuration.C169_FV.cnf   | 1411 | 1401    | 0.00     | 0.00 | 3.21       | 0.00         |
| 667   | Configuration.C169_FW.cnf   | 1411 | 1401    | 0.00     | 0.00 | 3.25       | 0.00         |
| 668   | Configuration.C250_FV.cnf   | 1465 | 1471    | 0.00     | 0.00 | TO         | 0.00         |
| 669   | Configuration.C250_FW.cnf   | 1465 | 1471    | 0.00     | 0.00 | TO         | 0.00         |
| 670   | Configuration.D1119_M20.cnf | 1400 | 1439    | 0.00     | 0.00 | 1.15       | 0.00         |
| 671   | Configuration.D1119_M23.cnf | 1414 | 1437    | 0.00     | 0.01 | 2.05       | 0.00         |
| 672   | Handmade.ais6.cnf           | 61   | 392     | 0.00     | 0.00 | 0.05       | 0.00         |
| 673   | Handmade.qg1-07.cnf         | 343  | 805     | 0.00     | 0.00 | 0.04       | 0.00         |
| 674   | Handmade.qg2-07.cnf         | 343  | 1533    | 0.01     | 0.01 | 0.09       | 0.00         |
| 675   | Handmade.qg5-11.cnf         | 1331 | 1333    | 0.00     | 0.00 | 0.04       | 0.00         |
| 676   | Handmade.qg6-09.cnf         | 729  | 729     | 0.00     | 0.00 | 0.02       | 0.00         |
| 677   | Handmade.qg7-09.cnf         | 729  | 729     | 0.00     | 0.00 | 0.01       | 0.00         |
| 678   | log-1.cnf.uai.cnf           | 2366 | 2643    | 0.01     | 0.02 | TO         | 0.00         |
| 679   | logistics.log-1.cnf         | 939  | 1216    | 0.00     | 0.01 | TO         | 0.00         |
| 680   | Network.75-10-10-q.cnf      | 460  | 211     | 0.00     | 0.00 | 273.94     | 0.00         |
| 681   | Network.75-10-1-q.cnf       | 460  | 200     | 0.00     | 0.00 | 277.33     | 0.00         |
| 682   | Network.75-10-4-q.cnf       | 460  | 236     | 0.00     | 0.01 | 295.33     | 0.00         |
| 683   | Network.90-10-10-q.cnf      | 460  | 132     | 0.00     | 0.00 | 238.39     | 0.00         |
| 684   | Network.90-10-1-q.cnf       | 460  | 185     | 0.00     | 0.00 | 238.49     | 0.00         |
| 685   | Network.90-10-3-q.cnf       | 460  | 150     | 0.00     | 0.00 | 248.24     | 0.00         |
| 686   | Network.90-10-4-q.cnf       | 460  | 145     | 0.00     | 0.00 | 287.69     | 0.00         |
| 687   | Network.90-10-5-q.cnf       | 460  | 144     | 0.00     | 0.00 | 287.74     | 0.00         |
| 688   | Network.90-10-7-q.cnf       | 460  | 145     | 0.00     | 0.00 | 315.60     | 0.00         |
| 689   | Network.90-10-9-q.cnf       | 460  | 164     | 0.00     | 0.00 | 273.95     | 0.00         |
| 690   | Network.90-12-10-q.cnf      | 672  | 238     | 0.00     | 0.00 | 757.56     | 0.00         |
| 691   | Network.90-12-1-q.cnf       | 672  | 223     | 0.00     | 0.01 | 593.58     | 0.00         |
| 692   | Network.90-12-2-q.cnf       | 672  | 197     | 0.00     | 0.00 | 632.32     | 0.00         |
| 693   | Network.90-12-3-q.cnf       | 672  | 252     | 0.00     | 0.00 | 732.82     | 0.00         |
| 694   | Network.90-12-4-q.cnf       | 672  | 221     | 0.00     | 0.00 | 705.75     | 0.00         |
| 695   | Network.90-12-5-q.cnf       | 672  | 182     | 0.00     | 0.00 | 637.38     | 0.00         |
| 696   | Network.90-12-6-q.cnf       | 672  | 237     | 0.00     | 0.00 | 691.81     | 0.00         |
| 697   | Network.90-12-8-q.cnf       | 672  | 286     | 0.01     | 0.01 | 734.32     | 0.00         |
| 698   | Network.90-14-1-q.cnf       | 924  | 294     | 0.00     | 0.00 | TO         | 0.00         |

| S. no | Benchmark              | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------|------|---------|----------|------|------------|--------------|
| 699   | Network.90-14-2-q.cnf  | 924  | 291     | 0.00     | 0.00 | TO         | 0.00         |
| 700   | Network.90-14-3-q.cnf  | 924  | 269     | 0.00     | 0.00 | TO         | 0.00         |
| 701   | Network.90-14-6-q.cnf  | 924  | 304     | 0.00     | 0.01 | TO         | 0.00         |
| 702   | Network.90-14-7-q.cnf  | 924  | 321     | 0.01     | 0.01 | TO         | 0.00         |
| 703   | Network.90-14-8-q.cnf  | 924  | 294     | 0.00     | 0.01 | TO         | 0.00         |
| 704   | Network.90-14-9-q.cnf  | 924  | 290     | 0.00     | 0.00 | TO         | 0.00         |
| 705   | Network.90-15-10-q.cnf | 1065 | 372     | 0.00     | 0.01 | TO         | 0.00         |
| 706   | Network.90-15-1-q.cnf  | 1065 | 324     | 0.00     | 0.01 | TO         | 0.00         |
| 707   | Network.90-15-4-q.cnf  | 1065 | 313     | 0.00     | 0.01 | TO         | 0.00         |
| 708   | Network.90-15-5-q.cnf  | 1065 | 341     | 0.00     | 0.01 | TO         | 0.00         |
| 709   | Network.90-15-6-q.cnf  | 1065 | 372     | 0.01     | 0.01 | TO         | 0.00         |
| 710   | Network.90-15-7-q.cnf  | 1065 | 337     | 0.00     | 0.01 | TO         | 0.00         |
| 711   | Network.90-15-8-q.cnf  | 1065 | 365     | 0.00     | 0.01 | TO         | 0.00         |
| 712   | Network.90-16-10-q.cnf | 1216 | 386     | 0.00     | 0.00 | TO         | 0.00         |
| 713   | Network.90-16-2-q.cnf  | 1216 | 359     | 0.00     | 0.00 | TO         | 0.00         |
| 714   | Network.90-16-3-q.cnf  | 1216 | 379     | 0.00     | 0.00 | TO         | 0.00         |
| 715   | Network.90-16-4-q.cnf  | 1216 | 448     | 0.00     | 0.01 | TO         | 0.00         |
| 716   | Network.90-16-5-q.cnf  | 1216 | 380     | 0.00     | 0.01 | TO         | 0.00         |
| 717   | Network.90-16-6-q.cnf  | 1216 | 441     | 0.01     | 0.01 | TO         | 0.00         |
| 718   | Network.90-16-7-q.cnf  | 1216 | 419     | 0.00     | 0.01 | TO         | 0.00         |
| 719   | Network.90-17-10-q.cnf | 1377 | 388     | 0.00     | 0.01 | TO         | 0.00         |
| 720   | Network.90-17-1-q.cnf  | 1377 | 404     | 0.00     | 0.01 | TO         | 0.00         |
| 721   | Network.90-17-5-q.cnf  | 1377 | 422     | 0.00     | 0.00 | TO         | 0.00         |
| 722   | Network.90-17-8-q.cnf  | 1377 | 450     | 0.00     | 0.01 | TO         | 0.00         |
| 723   | Network.90-17-9-q.cnf  | 1377 | 498     | 0.00     | 0.01 | TO         | 0.00         |
| 724   | Network.90-18-2-q.cnf  | 1548 | 504     | 0.00     | 0.01 | TO         | 0.00         |
| 725   | Network.90-18-4-q.cnf  | 1548 | 464     | 0.00     | 0.01 | TO         | 0.00         |
| 726   | Network.90-18-9-q.cnf  | 1548 | 454     | 0.00     | 0.00 | TO         | 0.00         |
| 727   | Network.90-19-4-q.cnf  | 1729 | 474     | 0.00     | 0.00 | TO         | 0.00         |
| 728   | Network.90-20-1-q.cnf  | 1920 | 580     | 0.00     | 0.01 | TO         | 0.00         |
| 729   | Network.90-20-4-q.cnf  | 1920 | 596     | 0.00     | 0.02 | TO         | 0.00         |
| 730   | Network.90-20-6-q.cnf  | 1920 | 566     | 0.00     | 0.00 | TO         | 0.00         |
| 731   | Network.90-23-4-q.cnf  | 2553 | 669     | 0.00     | 0.01 | TO         | 0.00         |
| 732   | Network.90-24-2-q.cnf  | 2784 | 822     | 0.00     | 0.01 | TO         | 0.00         |
| 733   | Network.90-24-8-q.cnf  | 2784 | 798     | 0.00     | 0.01 | TO         | 0.00         |

| S. no | Benchmark                      | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|------|---------|----------|------|------------|--------------|
| 734   | Network.blockmap_05.01.net.cnf | 1411 | 1457    | 0.00     | 0.00 | 0.12       | 0.00         |
| 735   | Network.blockmap_05.02.net.cnf | 1738 | 1864    | 0.00     | 0.01 | 0.76       | 0.00         |
| 736   | Network.fs-01.net.cnf          | 32   | 31      | 0.00     | 0.00 | 0.07       | 0.00         |
| 737   | Network.or-100-10-10-UC-10.cnf | 200  | 122     | 0.00     | 0.00 | 6.13       | 0.00         |
| 738   | Network.or-100-10-10-UC-20.cnf | 200  | 152     | 0.00     | 0.00 | 2.23       | 0.00         |
| 739   | Network.or-100-10-10-UC-30.cnf | 200  | 163     | 0.00     | 0.00 | 1.68       | 0.00         |
| 740   | Network.or-100-10-10-UC-40.cnf | 200  | 167     | 0.00     | 0.00 | 0.82       | 0.00         |
| 741   | Network.or-100-10-10-UC-50.cnf | 200  | 179     | 0.00     | 0.00 | 0.50       | 0.00         |
| 742   | Network.or-100-10-10-UC-60.cnf | 200  | 182     | 0.00     | 0.00 | 0.30       | 0.00         |
| 743   | Network.or-100-10-1-UC-10.cnf  | 200  | 126     | 0.00     | 0.00 | 4.53       | 0.00         |
| 744   | Network.or-100-10-1-UC-20.cnf  | 200  | 155     | 0.00     | 0.00 | 1.83       | 0.00         |
| 745   | Network.or-100-10-1-UC-30.cnf  | 200  | 164     | 0.00     | 0.00 | 1.14       | 0.00         |
| 746   | Network.or-100-10-1-UC-60.cnf  | 200  | 187     | 0.00     | 0.00 | 0.13       | 0.00         |
| 747   | Network.or-100-10-2-UC-10.cnf  | 200  | 120     | 0.00     | 0.00 | 5.95       | 0.00         |
| 748   | Network.or-100-10-2-UC-20.cnf  | 200  | 145     | 0.00     | 0.00 | 2.91       | 0.00         |
| 749   | Network.or-100-10-2-UC-30.cnf  | 200  | 155     | 0.00     | 0.00 | 2.03       | 0.00         |
| 750   | Network.or-100-10-2-UC-40.cnf  | 200  | 164     | 0.00     | 0.00 | 0.96       | 0.00         |
| 751   | Network.or-100-10-2-UC-50.cnf  | 200  | 174     | 0.00     | 0.00 | 0.59       | 0.00         |
| 752   | Network.or-100-10-2-UC-60.cnf  | 200  | 183     | 0.00     | 0.00 | 0.21       | 0.00         |
| 753   | Network.or-100-10-3-UC-10.cnf  | 200  | 123     | 0.00     | 0.00 | 5.04       | 0.00         |
| 754   | Network.or-100-10-3-UC-20.cnf  | 200  | 142     | 0.00     | 0.00 | 3.43       | 0.00         |
| 755   | Network.or-100-10-3-UC-30.cnf  | 200  | 160     | 0.00     | 0.00 | 2.00       | 0.00         |
| 756   | Network.or-100-10-3-UC-40.cnf  | 200  | 171     | 0.00     | 0.00 | 0.73       | 0.00         |
| 757   | Network.or-100-10-3-UC-50.cnf  | 200  | 179     | 0.00     | 0.00 | 0.40       | 0.00         |
| 758   | Network.or-100-10-3-UC-60.cnf  | 200  | 184     | 0.00     | 0.00 | 0.22       | 0.00         |
| 759   | Network.or-100-10-4-UC-10.cnf  | 200  | 123     | 0.00     | 0.00 | 4.66       | 0.00         |
| 760   | Network.or-100-10-4-UC-20.cnf  | 200  | 144     | 0.00     | 0.00 | 2.38       | 0.00         |
| 761   | Network.or-100-10-4-UC-30.cnf  | 200  | 158     | 0.00     | 0.00 | 1.51       | 0.00         |
| 762   | Network.or-100-10-4-UC-40.cnf  | 200  | 172     | 0.00     | 0.00 | 0.86       | 0.00         |
| 763   | Network.or-100-10-4-UC-50.cnf  | 200  | 185     | 0.00     | 0.00 | 0.20       | 0.00         |
| 764   | Network.or-100-10-4-UC-60.cnf  | 200  | 192     | 0.00     | 0.00 | 0.05       | 0.00         |
| 765   | Network.or-100-10-5-UC-10.cnf  | 200  | 120     | 0.00     | 0.00 | 5.47       | 0.00         |
| 766   | Network.or-100-10-5-UC-20.cnf  | 200  | 142     | 0.00     | 0.00 | 3.25       | 0.00         |
| 767   | Network.or-100-10-5-UC-30.cnf  | 200  | 155     | 0.00     | 0.00 | 1.98       | 0.00         |
| 768   | Network.or-100-10-5-UC-40.cnf  | 200  | 164     | 0.00     | 0.00 | 1.62       | 0.00         |

| S. no | Benchmark                      | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|--------------------------------|------|---------|----------|------|------------|--------------|
| 769   | Network.or-100-10-5-UC-50.cnf  | 200  | 170     | 0.00     | 0.00 | 1.05       | 0.00         |
| 770   | Network.or-100-10-5-UC-60.cnf  | 200  | 183     | 0.00     | 0.00 | 0.20       | 0.00         |
| 771   | Network.or-100-10-6-UC-20.cnf  | 200  | 143     | 0.00     | 0.00 | 3.00       | 0.00         |
| 772   | Network.or-100-10-6-UC-30.cnf  | 200  | 160     | 0.00     | 0.00 | 1.77       | 0.00         |
| 773   | Network.or-100-10-6-UC-40.cnf  | 200  | 171     | 0.00     | 0.00 | 0.80       | 0.00         |
| 774   | Network.or-100-10-6-UC-50.cnf  | 200  | 178     | 0.00     | 0.00 | 0.42       | 0.00         |
| 775   | Network.or-100-10-6-UC-60.cnf  | 200  | 184     | 0.00     | 0.00 | 0.22       | 0.00         |
| 776   | Network.or-100-10-7-UC-10.cnf  | 200  | 123     | 0.00     | 0.00 | 5.46       | 0.00         |
| 777   | Network.or-100-10-7-UC-20.cnf  | 200  | 141     | 0.00     | 0.00 | 3.63       | 0.00         |
| 778   | Network.or-100-10-7-UC-30.cnf  | 200  | 154     | 0.00     | 0.00 | 2.06       | 0.00         |
| 779   | Network.or-100-10-7-UC-40.cnf  | 200  | 166     | 0.00     | 0.00 | 1.38       | 0.00         |
| 780   | Network.or-100-10-7-UC-50.cnf  | 200  | 175     | 0.00     | 0.00 | 0.65       | 0.00         |
| 781   | Network.or-100-10-7-UC-60.cnf  | 200  | 183     | 0.00     | 0.00 | 0.42       | 0.00         |
| 782   | Network.or-100-10-8-UC-10.cnf  | 200  | 126     | 0.00     | 0.00 | 4.60       | 0.00         |
| 783   | Network.or-100-10-8-UC-20.cnf  | 200  | 147     | 0.00     | 0.00 | 2.59       | 0.00         |
| 784   | Network.or-100-10-8-UC-30.cnf  | 200  | 155     | 0.00     | 0.00 | 2.12       | 0.00         |
| 785   | Network.or-100-10-8-UC-40.cnf  | 200  | 169     | 0.00     | 0.00 | 1.16       | 0.00         |
| 786   | Network.or-100-10-8-UC-50.cnf  | 200  | 175     | 0.00     | 0.00 | 0.78       | 0.00         |
| 787   | Network.or-100-10-8-UC-60.cnf  | 200  | 183     | 0.00     | 0.00 | 0.44       | 0.00         |
| 788   | Network.or-100-10-9-UC-10.cnf  | 200  | 116     | 0.00     | 0.00 | 7.11       | 0.00         |
| 789   | Network.or-100-10-9-UC-20.cnf  | 200  | 141     | 0.00     | 0.00 | 3.91       | 0.00         |
| 790   | Network.or-100-10-9-UC-30.cnf  | 200  | 155     | 0.00     | 0.00 | 2.51       | 0.00         |
| 791   | Network.or-100-10-9-UC-40.cnf  | 200  | 168     | 0.00     | 0.00 | 1.67       | 0.00         |
| 792   | Network.or-100-10-9-UC-50.cnf  | 200  | 182     | 0.00     | 0.00 | 0.97       | 0.00         |
| 793   | Network.or-100-10-9-UC-60.cnf  | 200  | 177     | 0.00     | 0.00 | 0.86       | 0.00         |
| 794   | Network.or-100-20-10-UC-10.cnf | 200  | 121     | 0.00     | 0.00 | 6.08       | 0.00         |
| 795   | Network.or-100-20-10-UC-20.cnf | 200  | 141     | 0.00     | 0.00 | 4.08       | 0.00         |
| 796   | Network.or-100-20-10-UC-30.cnf | 200  | 152     | 0.00     | 0.00 | 2.91       | 0.00         |
| 797   | Network.or-100-20-10-UC-40.cnf | 200  | 160     | 0.00     | 0.00 | 2.82       | 0.00         |
| 798   | Network.or-100-20-10-UC-50.cnf | 200  | 168     | 0.00     | 0.00 | 1.80       | 0.00         |
| 799   | Network.or-100-20-10-UC-60.cnf | 200  | 180     | 0.00     | 0.00 | 1.10       | 0.00         |
| 800   | Network.or-100-20-1-UC-10.cnf  | 200  | 120     | 0.00     | 0.00 | 7.12       | 0.00         |
| 801   | Network.or-100-20-1-UC-20.cnf  | 200  | 131     | 0.00     | 0.00 | 5.13       | 0.00         |
| 802   | Network.or-100-20-1-UC-30.cnf  | 200  | 138     | 0.00     | 0.00 | 5.25       | 0.00         |
| 803   | Network.or-100-20-1-UC-40.cnf  | 200  | 164     | 0.00     | 0.00 | 1.81       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 804   | Network.or-100-20-1-UC-50.cnf | 200  | 172     | 0.00     | 0.00 | 1.21       | 0.00         |
| 805   | Network.or-100-20-1-UC-60.cnf | 200  | 177     | 0.00     | 0.00 | 1.11       | 0.00         |
| 806   | Network.or-100-20-2-UC-10.cnf | 200  | 127     | 0.00     | 0.00 | 4.41       | 0.00         |
| 807   | Network.or-100-20-2-UC-20.cnf | 200  | 141     | 0.00     | 0.00 | 4.37       | 0.00         |
| 808   | Network.or-100-20-2-UC-30.cnf | 200  | 153     | 0.00     | 0.00 | 3.53       | 0.00         |
| 809   | Network.or-100-20-2-UC-40.cnf | 200  | 168     | 0.00     | 0.00 | 2.06       | 0.00         |
| 810   | Network.or-100-20-2-UC-50.cnf | 200  | 153     | 0.00     | 0.00 | 4.12       | 0.00         |
| 811   | Network.or-100-20-2-UC-60.cnf | 200  | 161     | 0.00     | 0.00 | 3.77       | 0.00         |
| 812   | Network.or-100-20-3-UC-10.cnf | 200  | 110     | 0.00     | 0.00 | 7.93       | 0.00         |
| 813   | Network.or-100-20-3-UC-20.cnf | 200  | 123     | 0.00     | 0.00 | 6.24       | 0.00         |
| 814   | Network.or-100-20-3-UC-30.cnf | 200  | 147     | 0.00     | 0.00 | 4.02       | 0.00         |
| 815   | Network.or-100-20-3-UC-40.cnf | 200  | 158     | 0.00     | 0.00 | 2.84       | 0.00         |
| 816   | Network.or-100-20-3-UC-50.cnf | 200  | 175     | 0.00     | 0.00 | 0.76       | 0.00         |
| 817   | Network.or-100-20-3-UC-60.cnf | 200  | 184     | 0.00     | 0.00 | 0.30       | 0.00         |
| 818   | Network.or-100-20-4-UC-10.cnf | 200  | 127     | 0.00     | 0.00 | 5.27       | 0.00         |
| 819   | Network.or-100-20-4-UC-20.cnf | 200  | 144     | 0.00     | 0.00 | 3.80       | 0.00         |
| 820   | Network.or-100-20-4-UC-30.cnf | 200  | 146     | 0.00     | 0.00 | 3.97       | 0.00         |
| 821   | Network.or-100-20-4-UC-40.cnf | 200  | 160     | 0.00     | 0.00 | 2.12       | 0.00         |
| 822   | Network.or-100-20-4-UC-50.cnf | 200  | 168     | 0.00     | 0.00 | 1.68       | 0.00         |
| 823   | Network.or-100-20-4-UC-60.cnf | 200  | 176     | 0.00     | 0.00 | 1.53       | 0.00         |
| 824   | Network.or-100-20-5-UC-10.cnf | 200  | 123     | 0.00     | 0.00 | 5.17       | 0.00         |
| 825   | Network.or-100-20-5-UC-20.cnf | 200  | 139     | 0.00     | 0.00 | 3.98       | 0.00         |
| 826   | Network.or-100-20-5-UC-30.cnf | 200  | 147     | 0.00     | 0.00 | 3.56       | 0.00         |
| 827   | Network.or-100-20-5-UC-40.cnf | 200  | 157     | 0.00     | 0.00 | 2.04       | 0.00         |
| 828   | Network.or-100-20-5-UC-50.cnf | 200  | 168     | 0.00     | 0.00 | 1.29       | 0.00         |
| 829   | Network.or-100-20-5-UC-60.cnf | 200  | 178     | 0.00     | 0.00 | 0.57       | 0.00         |
| 830   | Network.or-100-20-6-UC-10.cnf | 200  | 118     | 0.00     | 0.00 | 6.17       | 0.00         |
| 831   | Network.or-100-20-6-UC-20.cnf | 200  | 137     | 0.00     | 0.00 | 4.26       | 0.00         |
| 832   | Network.or-100-20-6-UC-30.cnf | 200  | 158     | 0.00     | 0.00 | 2.44       | 0.00         |
| 833   | Network.or-100-20-6-UC-40.cnf | 200  | 164     | 0.00     | 0.00 | 2.01       | 0.00         |
| 834   | Network.or-100-20-6-UC-50.cnf | 200  | 170     | 0.00     | 0.00 | 1.67       | 0.00         |
| 835   | Network.or-100-20-6-UC-60.cnf | 200  | 177     | 0.00     | 0.00 | 0.45       | 0.00         |
| 836   | Network.or-100-20-7-UC-10.cnf | 200  | 128     | 0.00     | 0.00 | 4.86       | 0.00         |
| 837   | Network.or-100-20-7-UC-20.cnf | 200  | 144     | 0.00     | 0.00 | 4.22       | 0.00         |
| 838   | Network.or-100-20-7-UC-30.cnf | 200  | 153     | 0.00     | 0.00 | 2.79       | 0.00         |



| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 839   | Network.or-100-20-7-UC-40.cnf | 200  | 160     | 0.00     | 0.00 | 2.67       | 0.00         |
| 840   | Network.or-100-20-7-UC-50.cnf | 200  | 171     | 0.00     | 0.00 | 1.78       | 0.00         |
| 841   | Network.or-100-20-7-UC-60.cnf | 200  | 177     | 0.00     | 0.00 | 1.22       | 0.00         |
| 842   | Network.or-100-20-8-UC-10.cnf | 200  | 121     | 0.00     | 0.00 | 6.32       | 0.00         |
| 843   | Network.or-100-20-8-UC-20.cnf | 200  | 145     | 0.00     | 0.00 | 3.66       | 0.00         |
| 844   | Network.or-100-20-8-UC-30.cnf | 200  | 154     | 0.00     | 0.00 | 3.22       | 0.00         |
| 845   | Network.or-100-20-8-UC-40.cnf | 200  | 165     | 0.00     | 0.00 | 2.30       | 0.00         |
| 846   | Network.or-100-20-8-UC-50.cnf | 200  | 168     | 0.00     | 0.00 | 1.61       | 0.00         |
| 847   | Network.or-100-20-8-UC-60.cnf | 200  | 178     | 0.00     | 0.00 | 1.32       | 0.00         |
| 848   | Network.or-100-20-9-UC-10.cnf | 200  | 121     | 0.00     | 0.00 | 6.39       | 0.00         |
| 849   | Network.or-100-20-9-UC-20.cnf | 200  | 140     | 0.00     | 0.00 | 4.30       | 0.00         |
| 850   | Network.or-100-20-9-UC-30.cnf | 200  | 154     | 0.00     | 0.00 | 2.93       | 0.00         |
| 851   | Network.or-100-20-9-UC-40.cnf | 200  | 178     | 0.00     | 0.00 | 1.01       | 0.00         |
| 852   | Network.or-100-20-9-UC-50.cnf | 200  | 184     | 0.00     | 0.00 | 0.46       | 0.00         |
| 853   | Network.or-100-20-9-UC-60.cnf | 200  | 183     | 0.00     | 0.00 | 0.44       | 0.00         |
| 854   | Network.or-100-5-10-UC-20.cnf | 200  | 148     | 0.00     | 0.00 | 2.20       | 0.00         |
| 855   | Network.or-100-5-1-UC-10.cnf  | 200  | 134     | 0.00     | 0.00 | 3.56       | 0.00         |
| 856   | Network.or-100-5-1-UC-20.cnf  | 200  | 158     | 0.00     | 0.00 | 1.66       | 0.00         |
| 857   | Network.or-100-5-1-UC-30.cnf  | 200  | 174     | 0.00     | 0.01 | 0.52       | 0.00         |
| 858   | Network.or-100-5-2-UC-10.cnf  | 200  | 124     | 0.00     | 0.00 | 4.65       | 0.00         |
| 859   | Network.or-100-5-2-UC-20.cnf  | 200  | 144     | 0.00     | 0.00 | 2.84       | 0.00         |
| 860   | Network.or-100-5-2-UC-30.cnf  | 200  | 155     | 0.00     | 0.00 | 1.91       | 0.00         |
| 861   | Network.or-100-5-2-UC-40.cnf  | 200  | 170     | 0.00     | 0.00 | 0.94       | 0.00         |
| 862   | Network.or-100-5-2-UC-50.cnf  | 200  | 176     | 0.00     | 0.00 | 0.57       | 0.00         |
| 863   | Network.or-100-5-2-UC-60.cnf  | 200  | 183     | 0.00     | 0.00 | 0.27       | 0.00         |
| 864   | Network.or-100-5-3-UC-40.cnf  | 200  | 164     | 0.00     | 0.00 | 1.06       | 0.00         |
| 865   | Network.or-100-5-4-UC-10.cnf  | 200  | 125     | 0.00     | 0.00 | 4.46       | 0.00         |
| 866   | Network.or-100-5-4-UC-20.cnf  | 200  | 137     | 0.00     | 0.00 | 3.71       | 0.00         |
| 867   | Network.or-100-5-4-UC-30.cnf  | 200  | 169     | 0.00     | 0.00 | 1.39       | 0.00         |
| 868   | Network.or-100-5-4-UC-40.cnf  | 200  | 177     | 0.00     | 0.00 | 0.71       | 0.00         |
| 869   | Network.or-100-5-4-UC-50.cnf  | 200  | 188     | 0.00     | 0.00 | 0.16       | 0.00         |
| 870   | Network.or-100-5-4-UC-60.cnf  | 200  | 190     | 0.00     | 0.00 | 0.10       | 0.00         |
| 871   | Network.or-100-5-5-UC-10.cnf  | 200  | 118     | 0.00     | 0.00 | 6.27       | 0.00         |
| 872   | Network.or-100-5-5-UC-20.cnf  | 200  | 142     | 0.00     | 0.00 | 2.75       | 0.00         |
| 873   | Network.or-100-5-5-UC-30.cnf  | 200  | 160     | 0.00     | 0.01 | 1.77       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 874   | Network.or-100-5-5-UC-40.cnf  | 200  | 172     | 0.00     | 0.00 | 0.96       | 0.00         |
| 875   | Network.or-100-5-5-UC-50.cnf  | 200  | 178     | 0.00     | 0.00 | 0.61       | 0.00         |
| 876   | Network.or-100-5-5-UC-60.cnf  | 200  | 179     | 0.00     | 0.00 | 0.56       | 0.00         |
| 877   | Network.or-100-5-6-UC-20.cnf  | 200  | 150     | 0.00     | 0.00 | 2.16       | 0.00         |
| 878   | Network.or-100-5-7-UC-20.cnf  | 200  | 145     | 0.00     | 0.00 | 2.58       | 0.00         |
| 879   | Network.or-100-5-7-UC-30.cnf  | 200  | 165     | 0.00     | 0.00 | 2.12       | 0.00         |
| 880   | Network.or-100-5-7-UC-40.cnf  | 200  | 175     | 0.00     | 0.00 | 0.70       | 0.00         |
| 881   | Network.or-100-5-7-UC-50.cnf  | 200  | 176     | 0.00     | 0.00 | 0.41       | 0.00         |
| 882   | Network.or-100-5-8-UC-10.cnf  | 200  | 119     | 0.00     | 0.00 | 5.34       | 0.00         |
| 883   | Network.or-100-5-8-UC-20.cnf  | 200  | 145     | 0.00     | 0.00 | 2.24       | 0.00         |
| 884   | Network.or-100-5-8-UC-30.cnf  | 200  | 161     | 0.00     | 0.00 | 1.39       | 0.00         |
| 885   | Network.or-100-5-8-UC-40.cnf  | 200  | 173     | 0.00     | 0.00 | 0.51       | 0.00         |
| 886   | Network.or-100-5-8-UC-50.cnf  | 200  | 186     | 0.00     | 0.00 | 0.15       | 0.00         |
| 887   | Network.or-100-5-8-UC-60.cnf  | 200  | 191     | 0.00     | 0.00 | 0.04       | 0.00         |
| 888   | Network.or-100-5-9-UC-10.cnf  | 200  | 136     | 0.00     | 0.00 | 3.89       | 0.00         |
| 889   | Network.or-100-5-9-UC-20.cnf  | 200  | 150     | 0.00     | 0.00 | 2.48       | 0.00         |
| 890   | Network.or-100-5-9-UC-30.cnf  | 200  | 166     | 0.00     | 0.00 | 0.89       | 0.00         |
| 891   | Network.or-100-5-9-UC-40.cnf  | 200  | 181     | 0.00     | 0.00 | 0.30       | 0.00         |
| 892   | Network.or-50-10-10-UC-20.cnf | 100  | 79      | 0.00     | 0.00 | 0.32       | 0.00         |
| 893   | Network.or-50-10-10-UC-30.cnf | 100  | 84      | 0.00     | 0.00 | 0.20       | 0.00         |
| 894   | Network.or-50-10-10-UC-40.cnf | 100  | 89      | 0.00     | 0.00 | 0.09       | 0.00         |
| 895   | Network.or-50-10-1-UC-10.cnf  | 100  | 62      | 0.00     | 0.00 | 1.12       | 0.00         |
| 896   | Network.or-50-10-1-UC-20.cnf  | 100  | 79      | 0.00     | 0.00 | 0.38       | 0.00         |
| 897   | Network.or-50-10-1-UC-30.cnf  | 100  | 85      | 0.00     | 0.00 | 0.20       | 0.00         |
| 898   | Network.or-50-10-2-UC-10.cnf  | 100  | 69      | 0.00     | 0.00 | 0.77       | 0.00         |
| 899   | Network.or-50-10-2-UC-20.cnf  | 100  | 76      | 0.00     | 0.00 | 0.43       | 0.00         |
| 900   | Network.or-50-10-2-UC-30.cnf  | 100  | 81      | 0.00     | 0.00 | 0.33       | 0.00         |
| 901   | Network.or-50-10-2-UC-40.cnf  | 100  | 83      | 0.00     | 0.00 | 0.21       | 0.00         |
| 902   | Network.or-50-10-3-UC-10.cnf  | 100  | 66      | 0.00     | 0.00 | 1.09       | 0.00         |
| 903   | Network.or-50-10-3-UC-20.cnf  | 100  | 71      | 0.00     | 0.00 | 0.84       | 0.00         |
| 904   | Network.or-50-10-3-UC-30.cnf  | 100  | 81      | 0.00     | 0.00 | 0.36       | 0.00         |
| 905   | Network.or-50-10-3-UC-40.cnf  | 100  | 84      | 0.00     | 0.00 | 0.19       | 0.00         |
| 906   | Network.or-50-10-4-UC-10.cnf  | 100  | 63      | 0.00     | 0.00 | 1.02       | 0.00         |
| 907   | Network.or-50-10-4-UC-20.cnf  | 100  | 70      | 0.00     | 0.00 | 0.71       | 0.00         |
| 908   | Network.or-50-10-4-UC-30.cnf  | 100  | 76      | 0.00     | 0.00 | 0.43       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 909   | Network.or-50-10-4-UC-40.cnf  | 100  | 78      | 0.00     | 0.00 | 0.39       | 0.00         |
| 910   | Network.or-50-10-5-UC-10.cnf  | 100  | 62      | 0.00     | 0.00 | 1.15       | 0.00         |
| 911   | Network.or-50-10-5-UC-20.cnf  | 100  | 66      | 0.00     | 0.00 | 1.05       | 0.00         |
| 912   | Network.or-50-10-5-UC-30.cnf  | 100  | 69      | 0.00     | 0.00 | 0.81       | 0.00         |
| 913   | Network.or-50-10-5-UC-40.cnf  | 100  | 74      | 0.00     | 0.00 | 0.52       | 0.00         |
| 914   | Network.or-50-10-6-UC-10.cnf  | 100  | 66      | 0.00     | 0.00 | 0.89       | 0.00         |
| 915   | Network.or-50-10-6-UC-20.cnf  | 100  | 74      | 0.00     | 0.00 | 0.53       | 0.00         |
| 916   | Network.or-50-10-6-UC-30.cnf  | 100  | 75      | 0.00     | 0.00 | 0.60       | 0.00         |
| 917   | Network.or-50-10-6-UC-40.cnf  | 100  | 90      | 0.00     | 0.00 | 0.18       | 0.00         |
| 918   | Network.or-50-10-7-UC-10.cnf  | 100  | 57      | 0.00     | 0.00 | 1.47       | 0.00         |
| 919   | Network.or-50-10-7-UC-20.cnf  | 100  | 74      | 0.00     | 0.00 | 0.54       | 0.00         |
| 920   | Network.or-50-10-7-UC-30.cnf  | 100  | 83      | 0.00     | 0.00 | 0.24       | 0.00         |
| 921   | Network.or-50-10-7-UC-40.cnf  | 100  | 88      | 0.00     | 0.00 | 0.15       | 0.00         |
| 922   | Network.or-50-10-8-UC-40.cnf  | 100  | 92      | 0.00     | 0.00 | 0.05       | 0.00         |
| 923   | Network.or-50-10-9-UC-10.cnf  | 100  | 59      | 0.00     | 0.00 | 1.22       | 0.00         |
| 924   | Network.or-50-10-9-UC-20.cnf  | 100  | 66      | 0.00     | 0.00 | 0.92       | 0.00         |
| 925   | Network.or-50-10-9-UC-30.cnf  | 100  | 73      | 0.00     | 0.00 | 0.57       | 0.00         |
| 926   | Network.or-50-10-9-UC-40.cnf  | 100  | 77      | 0.00     | 0.00 | 0.45       | 0.00         |
| 927   | Network.or-50-20-10-UC-10.cnf | 100  | 66      | 0.00     | 0.00 | 1.01       | 0.00         |
| 928   | Network.or-50-20-10-UC-20.cnf | 100  | 75      | 0.00     | 0.00 | 0.85       | 0.00         |
| 929   | Network.or-50-20-10-UC-30.cnf | 100  | 79      | 0.00     | 0.00 | 0.59       | 0.00         |
| 930   | Network.or-50-20-10-UC-40.cnf | 100  | 89      | 0.00     | 0.00 | 0.36       | 0.00         |
| 931   | Network.or-50-20-1-UC-10.cnf  | 100  | 57      | 0.00     | 0.00 | 1.41       | 0.00         |
| 932   | Network.or-50-20-1-UC-20.cnf  | 100  | 68      | 0.00     | 0.00 | 0.93       | 0.00         |
| 933   | Network.or-50-20-1-UC-30.cnf  | 100  | 75      | 0.00     | 0.00 | 0.79       | 0.00         |
| 934   | Network.or-50-20-1-UC-40.cnf  | 100  | 86      | 0.00     | 0.00 | 0.36       | 0.00         |
| 935   | Network.or-50-20-2-UC-10.cnf  | 100  | 52      | 0.00     | 0.00 | 1.88       | 0.00         |
| 936   | Network.or-50-20-2-UC-20.cnf  | 100  | 61      | 0.00     | 0.00 | 1.27       | 0.00         |
| 937   | Network.or-50-20-2-UC-30.cnf  | 100  | 72      | 0.00     | 0.00 | 0.76       | 0.00         |
| 938   | Network.or-50-20-2-UC-40.cnf  | 100  | 79      | 0.00     | 0.00 | 0.70       | 0.00         |
| 939   | Network.or-50-20-3-UC-10.cnf  | 100  | 60      | 0.00     | 0.00 | 1.37       | 0.00         |
| 940   | Network.or-50-20-3-UC-20.cnf  | 100  | 74      | 0.00     | 0.00 | 0.72       | 0.00         |
| 941   | Network.or-50-20-3-UC-30.cnf  | 100  | 77      | 0.00     | 0.00 | 0.67       | 0.00         |
| 942   | Network.or-50-20-3-UC-40.cnf  | 100  | 76      | 0.00     | 0.00 | 0.59       | 0.00         |
| 943   | Network.or-50-20-4-UC-10.cnf  | 100  | 62      | 0.00     | 0.00 | 1.15       | 0.00         |

| S. no | Benchmark                    | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------------|------|---------|----------|------|------------|--------------|
| 944   | Network.or-50-20-4-UC-20.cnf | 100  | 68      | 0.00     | 0.00 | 1.10       | 0.00         |
| 945   | Network.or-50-20-4-UC-30.cnf | 100  | 71      | 0.00     | 0.00 | 1.07       | 0.00         |
| 946   | Network.or-50-20-4-UC-40.cnf | 100  | 75      | 0.00     | 0.00 | 0.67       | 0.00         |
| 947   | Network.or-50-20-5-UC-10.cnf | 100  | 60      | 0.00     | 0.00 | 1.31       | 0.00         |
| 948   | Network.or-50-20-5-UC-20.cnf | 100  | 67      | 0.00     | 0.00 | 1.21       | 0.00         |
| 949   | Network.or-50-20-5-UC-30.cnf | 100  | 78      | 0.00     | 0.00 | 0.67       | 0.00         |
| 950   | Network.or-50-20-5-UC-40.cnf | 100  | 83      | 0.00     | 0.00 | 0.61       | 0.00         |
| 951   | Network.or-50-20-6-UC-10.cnf | 100  | 61      | 0.00     | 0.00 | 1.27       | 0.00         |
| 952   | Network.or-50-20-6-UC-20.cnf | 100  | 73      | 0.00     | 0.00 | 0.88       | 0.00         |
| 953   | Network.or-50-20-6-UC-30.cnf | 100  | 82      | 0.00     | 0.00 | 0.57       | 0.00         |
| 954   | Network.or-50-20-6-UC-40.cnf | 100  | 84      | 0.00     | 0.00 | 0.41       | 0.00         |
| 955   | Network.or-50-20-7-UC-10.cnf | 100  | 63      | 0.00     | 0.00 | 1.03       | 0.00         |
| 956   | Network.or-50-20-7-UC-20.cnf | 100  | 74      | 0.00     | 0.00 | 0.57       | 0.00         |
| 957   | Network.or-50-20-7-UC-30.cnf | 100  | 78      | 0.00     | 0.00 | 0.47       | 0.00         |
| 958   | Network.or-50-20-7-UC-40.cnf | 100  | 84      | 0.00     | 0.00 | 0.27       | 0.00         |
| 959   | Network.or-50-20-8-UC-10.cnf | 100  | 67      | 0.00     | 0.00 | 0.84       | 0.00         |
| 960   | Network.or-50-20-8-UC-20.cnf | 100  | 71      | 0.00     | 0.00 | 0.73       | 0.00         |
| 961   | Network.or-50-20-8-UC-30.cnf | 100  | 81      | 0.00     | 0.00 | 0.38       | 0.00         |
| 962   | Network.or-50-20-8-UC-40.cnf | 100  | 84      | 0.00     | 0.00 | 0.33       | 0.00         |
| 963   | Network.or-50-20-9-UC-10.cnf | 100  | 60      | 0.00     | 0.00 | 1.36       | 0.00         |
| 964   | Network.or-50-20-9-UC-20.cnf | 100  | 73      | 0.00     | 0.00 | 0.53       | 0.00         |
| 965   | Network.or-50-20-9-UC-30.cnf | 100  | 78      | 0.00     | 0.00 | 0.39       | 0.00         |
| 966   | Network.or-50-20-9-UC-40.cnf | 100  | 81      | 0.00     | 0.00 | 0.38       | 0.00         |
| 967   | Network.or-50-5-1-UC-10.cnf  | 100  | 59      | 0.00     | 0.00 | 1.36       | 0.00         |
| 968   | Network.or-50-5-1-UC-20.cnf  | 100  | 75      | 0.00     | 0.00 | 0.51       | 0.00         |
| 969   | Network.or-50-5-2-UC-10.cnf  | 100  | 60      | 0.00     | 0.00 | 1.21       | 0.00         |
| 970   | Network.or-50-5-2-UC-20.cnf  | 100  | 72      | 0.00     | 0.00 | 0.58       | 0.00         |
| 971   | Network.or-50-5-2-UC-30.cnf  | 100  | 84      | 0.00     | 0.00 | 0.18       | 0.00         |
| 972   | Network.or-50-5-3-UC-10.cnf  | 100  | 73      | 0.00     | 0.00 | 0.53       | 0.00         |
| 973   | Network.or-50-5-3-UC-20.cnf  | 100  | 82      | 0.00     | 0.00 | 0.28       | 0.00         |
| 974   | Network.or-50-5-3-UC-30.cnf  | 100  | 86      | 0.00     | 0.00 | 0.20       | 0.00         |
| 975   | Network.or-50-5-3-UC-40.cnf  | 100  | 87      | 0.00     | 0.00 | 0.15       | 0.00         |
| 976   | Network.or-50-5-4-UC-10.cnf  | 100  | 56      | 0.00     | 0.00 | 1.52       | 0.00         |
| 977   | Network.or-50-5-4-UC-20.cnf  | 100  | 62      | 0.00     | 0.00 | 1.28       | 0.00         |
| 978   | Network.or-50-5-4-UC-30.cnf  | 100  | 78      | 0.00     | 0.00 | 0.52       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 979   | Network.or-50-5-4-UC-40.cnf   | 100  | 87      | 0.00     | 0.00 | 0.28       | 0.00         |
| 980   | Network.or-50-5-5-UC-10.cnf   | 100  | 56      | 0.00     | 0.00 | 1.52       | 0.00         |
| 981   | Network.or-50-5-5-UC-20.cnf   | 100  | 69      | 0.00     | 0.00 | 0.88       | 0.00         |
| 982   | Network.or-50-5-7-UC-10.cnf   | 100  | 59      | 0.00     | 0.00 | 1.35       | 0.00         |
| 983   | Network.or-50-5-7-UC-20.cnf   | 100  | 75      | 0.00     | 0.00 | 0.50       | 0.00         |
| 984   | Network.or-50-5-7-UC-30.cnf   | 100  | 81      | 0.00     | 0.00 | 0.29       | 0.00         |
| 985   | Network.or-50-5-7-UC-40.cnf   | 100  | 87      | 0.00     | 0.00 | 0.17       | 0.00         |
| 986   | Network.or-50-5-8-UC-10.cnf   | 100  | 63      | 0.00     | 0.00 | 1.10       | 0.00         |
| 987   | Network.or-50-5-8-UC-20.cnf   | 100  | 72      | 0.00     | 0.00 | 0.59       | 0.00         |
| 988   | Network.or-50-5-8-UC-30.cnf   | 100  | 86      | 0.00     | 0.00 | 0.25       | 0.00         |
| 989   | Network.or-50-5-9-UC-10.cnf   | 100  | 63      | 0.00     | 0.00 | 1.06       | 0.00         |
| 990   | Network.or-50-5-9-UC-20.cnf   | 100  | 69      | 0.00     | 0.00 | 0.65       | 0.00         |
| 991   | Network.or-50-5-9-UC-30.cnf   | 100  | 82      | 0.00     | 0.00 | 0.22       | 0.00         |
| 992   | Network.or-50-5-9-UC-40.cnf   | 100  | 88      | 0.00     | 0.00 | 0.10       | 0.00         |
| 993   | Network.or-60-10-10-UC-10.cnf | 120  | 70      | 0.00     | 0.00 | 2.07       | 0.00         |
| 994   | Network.or-60-10-10-UC-20.cnf | 120  | 85      | 0.00     | 0.00 | 1.17       | 0.00         |
| 995   | Network.or-60-10-10-UC-30.cnf | 120  | 99      | 0.00     | 0.00 | 0.52       | 0.00         |
| 996   | Network.or-60-10-10-UC-40.cnf | 120  | 103     | 0.00     | 0.00 | 0.34       | 0.00         |
| 997   | Network.or-60-10-1-UC-10.cnf  | 120  | 73      | 0.00     | 0.00 | 1.87       | 0.00         |
| 998   | Network.or-60-10-1-UC-20.cnf  | 120  | 81      | 0.00     | 0.00 | 1.19       | 0.00         |
| 999   | Network.or-60-10-1-UC-30.cnf  | 120  | 94      | 0.00     | 0.00 | 0.63       | 0.00         |
| 1000  | Network.or-60-10-1-UC-40.cnf  | 120  | 98      | 0.00     | 0.00 | 0.53       | 0.00         |
| 1001  | Network.or-60-10-2-UC-10.cnf  | 120  | 74      | 0.00     | 0.00 | 1.67       | 0.00         |
| 1002  | Network.or-60-10-2-UC-20.cnf  | 120  | 88      | 0.00     | 0.00 | 1.07       | 0.00         |
| 1003  | Network.or-60-10-2-UC-30.cnf  | 120  | 103     | 0.00     | 0.00 | 0.32       | 0.00         |
| 1004  | Network.or-60-10-2-UC-40.cnf  | 120  | 105     | 0.00     | 0.00 | 0.27       | 0.00         |
| 1005  | Network.or-60-10-3-UC-10.cnf  | 120  | 68      | 0.00     | 0.00 | 2.24       | 0.00         |
| 1006  | Network.or-60-10-3-UC-20.cnf  | 120  | 86      | 0.00     | 0.00 | 1.17       | 0.00         |
| 1007  | Network.or-60-10-3-UC-30.cnf  | 120  | 93      | 0.00     | 0.00 | 0.91       | 0.00         |
| 1008  | Network.or-60-10-3-UC-40.cnf  | 120  | 100     | 0.00     | 0.00 | 0.65       | 0.00         |
| 1009  | Network.or-60-10-5-UC-10.cnf  | 120  | 79      | 0.00     | 0.00 | 1.45       | 0.00         |
| 1010  | Network.or-60-10-5-UC-20.cnf  | 120  | 92      | 0.00     | 0.00 | 0.79       | 0.00         |
| 1011  | Network.or-60-10-5-UC-30.cnf  | 120  | 98      | 0.00     | 0.00 | 0.59       | 0.00         |
| 1012  | Network.or-60-10-5-UC-40.cnf  | 120  | 100     | 0.00     | 0.00 | 0.38       | 0.00         |
| 1013  | Network.or-60-10-6-UC-10.cnf  | 120  | 71      | 0.00     | 0.00 | 2.05       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 1014  | Network.or-60-10-6-UC-20.cnf  | 120  | 92      | 0.00     | 0.00 | 0.63       | 0.00         |
| 1015  | Network.or-60-10-6-UC-30.cnf  | 120  | 96      | 0.00     | 0.00 | 0.52       | 0.00         |
| 1016  | Network.or-60-10-6-UC-40.cnf  | 120  | 99      | 0.00     | 0.00 | 0.35       | 0.00         |
| 1017  | Network.or-60-10-7-UC-10.cnf  | 120  | 77      | 0.00     | 0.00 | 1.48       | 0.00         |
| 1018  | Network.or-60-10-7-UC-30.cnf  | 120  | 97      | 0.00     | 0.00 | 0.39       | 0.00         |
| 1019  | Network.or-60-10-7-UC-40.cnf  | 120  | 104     | 0.00     | 0.00 | 0.20       | 0.00         |
| 1020  | Network.or-60-10-8-UC-10.cnf  | 120  | 84      | 0.00     | 0.00 | 1.04       | 0.00         |
| 1021  | Network.or-60-10-8-UC-20.cnf  | 120  | 86      | 0.00     | 0.00 | 0.97       | 0.00         |
| 1022  | Network.or-60-10-8-UC-30.cnf  | 120  | 95      | 0.00     | 0.00 | 0.60       | 0.00         |
| 1023  | Network.or-60-10-8-UC-40.cnf  | 120  | 105     | 0.00     | 0.00 | 0.16       | 0.00         |
| 1024  | Network.or-60-10-9-UC-20.cnf  | 120  | 91      | 0.00     | 0.00 | 0.60       | 0.00         |
| 1025  | Network.or-60-10-9-UC-30.cnf  | 120  | 101     | 0.00     | 0.00 | 0.26       | 0.00         |
| 1026  | Network.or-60-20-10-UC-10.cnf | 120  | 70      | 0.00     | 0.00 | 2.11       | 0.00         |
| 1027  | Network.or-60-20-10-UC-20.cnf | 120  | 79      | 0.00     | 0.00 | 1.52       | 0.00         |
| 1028  | Network.or-60-20-10-UC-30.cnf | 120  | 88      | 0.00     | 0.00 | 1.10       | 0.00         |
| 1029  | Network.or-60-20-10-UC-40.cnf | 120  | 101     | 0.00     | 0.00 | 0.76       | 0.00         |
| 1030  | Network.or-60-20-1-UC-10.cnf  | 120  | 67      | 0.00     | 0.00 | 2.48       | 0.00         |
| 1031  | Network.or-60-20-1-UC-20.cnf  | 120  | 82      | 0.00     | 0.00 | 0.99       | 0.00         |
| 1032  | Network.or-60-20-1-UC-30.cnf  | 120  | 93      | 0.00     | 0.00 | 0.68       | 0.00         |
| 1033  | Network.or-60-20-1-UC-40.cnf  | 120  | 97      | 0.00     | 0.00 | 0.61       | 0.00         |
| 1034  | Network.or-60-20-2-UC-10.cnf  | 120  | 70      | 0.00     | 0.00 | 2.15       | 0.00         |
| 1035  | Network.or-60-20-2-UC-20.cnf  | 120  | 86      | 0.00     | 0.00 | 1.25       | 0.00         |
| 1036  | Network.or-60-20-2-UC-30.cnf  | 120  | 103     | 0.00     | 0.00 | 0.37       | 0.00         |
| 1037  | Network.or-60-20-2-UC-40.cnf  | 120  | 104     | 0.00     | 0.00 | 0.32       | 0.00         |
| 1038  | Network.or-60-20-3-UC-10.cnf  | 120  | 82      | 0.00     | 0.00 | 1.40       | 0.00         |
| 1039  | Network.or-60-20-3-UC-20.cnf  | 120  | 91      | 0.00     | 0.00 | 1.07       | 0.00         |
| 1040  | Network.or-60-20-3-UC-30.cnf  | 120  | 97      | 0.00     | 0.00 | 0.83       | 0.00         |
| 1041  | Network.or-60-20-3-UC-40.cnf  | 120  | 99      | 0.00     | 0.00 | 0.69       | 0.00         |
| 1042  | Network.or-60-20-4-UC-10.cnf  | 120  | 69      | 0.00     | 0.00 | 2.38       | 0.00         |
| 1043  | Network.or-60-20-4-UC-20.cnf  | 120  | 78      | 0.00     | 0.00 | 1.84       | 0.00         |
| 1044  | Network.or-60-20-4-UC-30.cnf  | 120  | 87      | 0.00     | 0.00 | 1.26       | 0.00         |
| 1045  | Network.or-60-20-4-UC-40.cnf  | 120  | 92      | 0.00     | 0.00 | 1.45       | 0.00         |
| 1046  | Network.or-60-20-5-UC-10.cnf  | 120  | 68      | 0.00     | 0.00 | 2.41       | 0.00         |
| 1047  | Network.or-60-20-5-UC-20.cnf  | 120  | 74      | 0.00     | 0.00 | 2.32       | 0.00         |
| 1048  | Network.or-60-20-5-UC-30.cnf  | 120  | 84      | 0.00     | 0.00 | 1.51       | 0.00         |

| S. no | Benchmark                    | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------------|------|---------|----------|------|------------|--------------|
| 1049  | Network.or-60-20-5-UC-40.cnf | 120  | 94      | 0.00     | 0.00 | 0.95       | 0.00         |
| 1050  | Network.or-60-20-6-UC-10.cnf | 120  | 71      | 0.00     | 0.00 | 2.52       | 0.00         |
| 1051  | Network.or-60-20-6-UC-20.cnf | 120  | 84      | 0.00     | 0.00 | 1.60       | 0.00         |
| 1052  | Network.or-60-20-6-UC-30.cnf | 120  | 91      | 0.00     | 0.00 | 1.33       | 0.00         |
| 1053  | Network.or-60-20-6-UC-40.cnf | 120  | 95      | 0.00     | 0.00 | 0.99       | 0.00         |
| 1054  | Network.or-60-20-7-UC-10.cnf | 120  | 71      | 0.00     | 0.00 | 2.04       | 0.00         |
| 1055  | Network.or-60-20-7-UC-20.cnf | 120  | 82      | 0.00     | 0.01 | 1.73       | 0.00         |
| 1056  | Network.or-60-20-7-UC-30.cnf | 120  | 88      | 0.00     | 0.00 | 1.08       | 0.00         |
| 1057  | Network.or-60-20-7-UC-40.cnf | 120  | 102     | 0.00     | 0.00 | 0.52       | 0.00         |
| 1058  | Network.or-60-20-8-UC-10.cnf | 120  | 73      | 0.00     | 0.00 | 2.16       | 0.00         |
| 1059  | Network.or-60-20-8-UC-20.cnf | 120  | 91      | 0.00     | 0.00 | 0.81       | 0.00         |
| 1060  | Network.or-60-20-8-UC-30.cnf | 120  | 97      | 0.00     | 0.00 | 0.54       | 0.00         |
| 1061  | Network.or-60-20-8-UC-40.cnf | 120  | 103     | 0.00     | 0.00 | 0.23       | 0.00         |
| 1062  | Network.or-60-20-9-UC-10.cnf | 120  | 77      | 0.00     | 0.00 | 1.43       | 0.00         |
| 1063  | Network.or-60-20-9-UC-20.cnf | 120  | 92      | 0.00     | 0.00 | 0.55       | 0.00         |
| 1064  | Network.or-60-20-9-UC-30.cnf | 120  | 96      | 0.00     | 0.00 | 0.45       | 0.00         |
| 1065  | Network.or-60-20-9-UC-40.cnf | 120  | 97      | 0.00     | 0.00 | 0.38       | 0.00         |
| 1066  | Network.or-60-5-10-UC-10.cnf | 120  | 83      | 0.00     | 0.00 | 1.09       | 0.00         |
| 1067  | Network.or-60-5-10-UC-20.cnf | 120  | 89      | 0.00     | 0.00 | 0.93       | 0.00         |
| 1068  | Network.or-60-5-10-UC-30.cnf | 120  | 100     | 0.00     | 0.00 | 0.41       | 0.00         |
| 1069  | Network.or-60-5-10-UC-40.cnf | 120  | 106     | 0.00     | 0.00 | 0.14       | 0.00         |
| 1070  | Network.or-60-5-1-UC-10.cnf  | 120  | 83      | 0.00     | 0.00 | 0.95       | 0.00         |
| 1071  | Network.or-60-5-1-UC-20.cnf  | 120  | 90      | 0.00     | 0.00 | 0.83       | 0.00         |
| 1072  | Network.or-60-5-1-UC-30.cnf  | 120  | 95      | 0.00     | 0.00 | 0.59       | 0.00         |
| 1073  | Network.or-60-5-1-UC-40.cnf  | 120  | 105     | 0.00     | 0.00 | 0.18       | 0.00         |
| 1074  | Network.or-60-5-2-UC-10.cnf  | 120  | 76      | 0.00     | 0.00 | 1.47       | 0.00         |
| 1075  | Network.or-60-5-2-UC-20.cnf  | 120  | 86      | 0.00     | 0.00 | 0.98       | 0.00         |
| 1076  | Network.or-60-5-2-UC-30.cnf  | 120  | 91      | 0.00     | 0.00 | 0.68       | 0.00         |
| 1077  | Network.or-60-5-3-UC-10.cnf  | 120  | 69      | 0.00     | 0.00 | 2.11       | 0.00         |
| 1078  | Network.or-60-5-3-UC-20.cnf  | 120  | 80      | 0.00     | 0.00 | 1.24       | 0.00         |
| 1079  | Network.or-60-5-3-UC-30.cnf  | 120  | 102     | 0.00     | 0.00 | 0.22       | 0.00         |
| 1080  | Network.or-60-5-4-UC-10.cnf  | 120  | 82      | 0.00     | 0.00 | 1.02       | 0.00         |
| 1081  | Network.or-60-5-4-UC-20.cnf  | 120  | 96      | 0.00     | 0.00 | 0.38       | 0.00         |
| 1082  | Network.or-60-5-4-UC-30.cnf  | 120  | 105     | 0.00     | 0.00 | 0.16       | 0.00         |
| 1083  | Network.or-60-5-4-UC-40.cnf  | 120  | 109     | 0.00     | 0.00 | 0.09       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 1084  | Network.or-60-5-5-UC-10.cnf   | 120  | 77      | 0.00     | 0.00 | 1.48       | 0.00         |
| 1085  | Network.or-60-5-5-UC-20.cnf   | 120  | 96      | 0.00     | 0.00 | 0.45       | 0.00         |
| 1086  | Network.or-60-5-5-UC-30.cnf   | 120  | 98      | 0.00     | 0.00 | 0.36       | 0.00         |
| 1087  | Network.or-60-5-6-UC-20.cnf   | 120  | 98      | 0.00     | 0.00 | 0.33       | 0.00         |
| 1088  | Network.or-60-5-6-UC-30.cnf   | 120  | 103     | 0.00     | 0.00 | 0.21       | 0.00         |
| 1089  | Network.or-60-5-6-UC-40.cnf   | 120  | 106     | 0.00     | 0.00 | 0.16       | 0.00         |
| 1090  | Network.or-60-5-7-UC-10.cnf   | 120  | 82      | 0.00     | 0.00 | 1.06       | 0.00         |
| 1091  | Network.or-60-5-7-UC-20.cnf   | 120  | 91      | 0.00     | 0.00 | 0.65       | 0.00         |
| 1092  | Network.or-60-5-7-UC-30.cnf   | 120  | 97      | 0.00     | 0.00 | 0.46       | 0.00         |
| 1093  | Network.or-60-5-7-UC-40.cnf   | 120  | 104     | 0.00     | 0.00 | 0.24       | 0.00         |
| 1094  | Network.or-60-5-8-UC-10.cnf   | 120  | 72      | 0.00     | 0.00 | 1.84       | 0.00         |
| 1095  | Network.or-60-5-8-UC-30.cnf   | 120  | 103     | 0.00     | 0.00 | 0.21       | 0.00         |
| 1096  | Network.or-60-5-8-UC-40.cnf   | 120  | 105     | 0.00     | 0.00 | 0.15       | 0.00         |
| 1097  | Network.or-60-5-9-UC-20.cnf   | 120  | 96      | 0.00     | 0.00 | 0.40       | 0.00         |
| 1098  | Network.or-60-5-9-UC-30.cnf   | 120  | 103     | 0.00     | 0.00 | 0.26       | 0.00         |
| 1099  | Network.or-60-5-9-UC-40.cnf   | 120  | 110     | 0.00     | 0.00 | 0.07       | 0.00         |
| 1100  | Network.or-70-10-10-UC-10.cnf | 140  | 86      | 0.00     | 0.00 | 2.34       | 0.00         |
| 1101  | Network.or-70-10-1-UC-10.cnf  | 140  | 90      | 0.00     | 0.00 | 2.08       | 0.00         |
| 1102  | Network.or-70-10-1-UC-20.cnf  | 140  | 104     | 0.00     | 0.00 | 0.99       | 0.00         |
| 1103  | Network.or-70-10-1-UC-30.cnf  | 140  | 111     | 0.00     | 0.00 | 0.83       | 0.00         |
| 1104  | Network.or-70-10-1-UC-40.cnf  | 140  | 117     | 0.00     | 0.00 | 0.55       | 0.00         |
| 1105  | Network.or-70-10-2-UC-10.cnf  | 140  | 81      | 0.00     | 0.00 | 2.82       | 0.00         |
| 1106  | Network.or-70-10-2-UC-20.cnf  | 140  | 97      | 0.00     | 0.00 | 1.57       | 0.00         |
| 1107  | Network.or-70-10-2-UC-30.cnf  | 140  | 108     | 0.00     | 0.00 | 0.98       | 0.00         |
| 1108  | Network.or-70-10-2-UC-40.cnf  | 140  | 114     | 0.00     | 0.00 | 0.47       | 0.00         |
| 1109  | Network.or-70-10-3-UC-10.cnf  | 140  | 95      | 0.00     | 0.00 | 1.93       | 0.00         |
| 1110  | Network.or-70-10-3-UC-20.cnf  | 140  | 100     | 0.00     | 0.00 | 1.39       | 0.00         |
| 1111  | Network.or-70-10-3-UC-30.cnf  | 140  | 117     | 0.00     | 0.00 | 0.40       | 0.00         |
| 1112  | Network.or-70-10-3-UC-40.cnf  | 140  | 125     | 0.00     | 0.00 | 0.15       | 0.00         |
| 1113  | Network.or-70-10-4-UC-10.cnf  | 140  | 81      | 0.00     | 0.00 | 3.24       | 0.00         |
| 1114  | Network.or-70-10-4-UC-20.cnf  | 140  | 92      | 0.00     | 0.00 | 2.40       | 0.00         |
| 1115  | Network.or-70-10-4-UC-30.cnf  | 140  | 101     | 0.00     | 0.00 | 1.85       | 0.00         |
| 1116  | Network.or-70-10-4-UC-40.cnf  | 140  | 110     | 0.00     | 0.00 | 1.09       | 0.00         |
| 1117  | Network.or-70-10-5-UC-10.cnf  | 140  | 83      | 0.00     | 0.00 | 2.54       | 0.00         |
| 1118  | Network.or-70-10-5-UC-20.cnf  | 140  | 101     | 0.00     | 0.00 | 1.39       | 0.00         |



| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 1119  | Network.or-70-10-5-UC-30.cnf  | 140  | 110     | 0.00     | 0.00 | 0.63       | 0.00         |
| 1120  | Network.or-70-10-5-UC-40.cnf  | 140  | 118     | 0.00     | 0.00 | 0.33       | 0.00         |
| 1121  | Network.or-70-10-6-UC-10.cnf  | 140  | 85      | 0.00     | 0.00 | 2.52       | 0.00         |
| 1122  | Network.or-70-10-6-UC-20.cnf  | 140  | 100     | 0.00     | 0.00 | 1.27       | 0.00         |
| 1123  | Network.or-70-10-6-UC-30.cnf  | 140  | 120     | 0.00     | 0.00 | 0.39       | 0.00         |
| 1124  | Network.or-70-10-6-UC-40.cnf  | 140  | 127     | 0.00     | 0.00 | 0.11       | 0.00         |
| 1125  | Network.or-70-10-7-UC-10.cnf  | 140  | 86      | 0.00     | 0.00 | 2.30       | 0.00         |
| 1126  | Network.or-70-10-7-UC-20.cnf  | 140  | 99      | 0.00     | 0.00 | 1.64       | 0.00         |
| 1127  | Network.or-70-10-7-UC-30.cnf  | 140  | 114     | 0.00     | 0.00 | 0.97       | 0.00         |
| 1128  | Network.or-70-10-7-UC-40.cnf  | 140  | 124     | 0.00     | 0.00 | 0.51       | 0.00         |
| 1129  | Network.or-70-10-8-UC-20.cnf  | 140  | 113     | 0.00     | 0.00 | 0.52       | 0.00         |
| 1130  | Network.or-70-10-8-UC-30.cnf  | 140  | 123     | 0.00     | 0.00 | 0.27       | 0.00         |
| 1131  | Network.or-70-10-8-UC-40.cnf  | 140  | 126     | 0.00     | 0.00 | 0.14       | 0.00         |
| 1132  | Network.or-70-10-9-UC-10.cnf  | 140  | 96      | 0.00     | 0.00 | 1.46       | 0.00         |
| 1133  | Network.or-70-10-9-UC-20.cnf  | 140  | 106     | 0.00     | 0.00 | 0.88       | 0.00         |
| 1134  | Network.or-70-10-9-UC-30.cnf  | 140  | 117     | 0.00     | 0.00 | 0.60       | 0.00         |
| 1135  | Network.or-70-10-9-UC-40.cnf  | 140  | 122     | 0.00     | 0.00 | 0.33       | 0.00         |
| 1136  | Network.or-70-20-10-UC-10.cnf | 140  | 86      | 0.00     | 0.00 | 2.27       | 0.00         |
| 1137  | Network.or-70-20-10-UC-20.cnf | 140  | 90      | 0.00     | 0.00 | 2.80       | 0.00         |
| 1138  | Network.or-70-20-10-UC-30.cnf | 140  | 102     | 0.00     | 0.00 | 1.66       | 0.00         |
| 1139  | Network.or-70-20-10-UC-40.cnf | 140  | 119     | 0.00     | 0.00 | 0.84       | 0.00         |
| 1140  | Network.or-70-20-1-UC-10.cnf  | 140  | 96      | 0.00     | 0.00 | 1.87       | 0.00         |
| 1141  | Network.or-70-20-1-UC-20.cnf  | 140  | 106     | 0.00     | 0.00 | 1.53       | 0.00         |
| 1142  | Network.or-70-20-1-UC-30.cnf  | 140  | 109     | 0.00     | 0.00 | 1.53       | 0.00         |
| 1143  | Network.or-70-20-1-UC-40.cnf  | 140  | 113     | 0.00     | 0.00 | 1.22       | 0.00         |
| 1144  | Network.or-70-20-2-UC-10.cnf  | 140  | 89      | 0.00     | 0.00 | 2.21       | 0.00         |
| 1145  | Network.or-70-20-2-UC-20.cnf  | 140  | 103     | 0.00     | 0.00 | 1.72       | 0.00         |
| 1146  | Network.or-70-20-2-UC-30.cnf  | 140  | 109     | 0.00     | 0.00 | 1.67       | 0.00         |
| 1147  | Network.or-70-20-2-UC-40.cnf  | 140  | 114     | 0.00     | 0.00 | 1.11       | 0.00         |
| 1148  | Network.or-70-20-3-UC-10.cnf  | 140  | 79      | 0.00     | 0.00 | 3.52       | 0.00         |
| 1149  | Network.or-70-20-3-UC-20.cnf  | 140  | 96      | 0.00     | 0.00 | 2.23       | 0.00         |
| 1150  | Network.or-70-20-3-UC-30.cnf  | 140  | 106     | 0.00     | 0.00 | 1.99       | 0.00         |
| 1151  | Network.or-70-20-3-UC-40.cnf  | 140  | 123     | 0.00     | 0.00 | 1.34       | 0.00         |
| 1152  | Network.or-70-20-4-UC-10.cnf  | 140  | 82      | 0.00     | 0.00 | 2.82       | 0.00         |
| 1153  | Network.or-70-20-4-UC-20.cnf  | 140  | 91      | 0.00     | 0.00 | 2.52       | 0.00         |

| S. no | Benchmark                    | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------------|------|---------|----------|------|------------|--------------|
| 1154  | Network.or-70-20-4-UC-30.cnf | 140  | 110     | 0.00     | 0.00 | 1.06       | 0.00         |
| 1155  | Network.or-70-20-4-UC-40.cnf | 140  | 120     | 0.00     | 0.00 | 0.64       | 0.00         |
| 1156  | Network.or-70-20-5-UC-10.cnf | 140  | 82      | 0.00     | 0.00 | 3.09       | 0.00         |
| 1157  | Network.or-70-20-5-UC-20.cnf | 140  | 92      | 0.00     | 0.00 | 2.48       | 0.00         |
| 1158  | Network.or-70-20-5-UC-30.cnf | 140  | 98      | 0.00     | 0.00 | 1.80       | 0.00         |
| 1159  | Network.or-70-20-5-UC-40.cnf | 140  | 109     | 0.00     | 0.00 | 1.23       | 0.00         |
| 1160  | Network.or-70-20-6-UC-10.cnf | 140  | 85      | 0.00     | 0.00 | 2.47       | 0.00         |
| 1161  | Network.or-70-20-6-UC-20.cnf | 140  | 100     | 0.00     | 0.00 | 1.67       | 0.00         |
| 1162  | Network.or-70-20-6-UC-30.cnf | 140  | 111     | 0.00     | 0.00 | 0.61       | 0.00         |
| 1163  | Network.or-70-20-6-UC-40.cnf | 140  | 113     | 0.00     | 0.00 | 0.52       | 0.00         |
| 1164  | Network.or-70-20-7-UC-10.cnf | 140  | 85      | 0.00     | 0.00 | 2.48       | 0.00         |
| 1165  | Network.or-70-20-7-UC-20.cnf | 140  | 103     | 0.00     | 0.00 | 1.85       | 0.00         |
| 1166  | Network.or-70-20-7-UC-30.cnf | 140  | 118     | 0.00     | 0.00 | 1.15       | 0.00         |
| 1167  | Network.or-70-20-7-UC-40.cnf | 140  | 125     | 0.00     | 0.00 | 0.88       | 0.00         |
| 1168  | Network.or-70-20-8-UC-10.cnf | 140  | 80      | 0.00     | 0.00 | 2.94       | 0.00         |
| 1169  | Network.or-70-20-8-UC-20.cnf | 140  | 87      | 0.00     | 0.00 | 3.04       | 0.00         |
| 1170  | Network.or-70-20-8-UC-30.cnf | 140  | 104     | 0.00     | 0.00 | 1.59       | 0.00         |
| 1171  | Network.or-70-20-8-UC-40.cnf | 140  | 115     | 0.00     | 0.00 | 1.32       | 0.00         |
| 1172  | Network.or-70-20-9-UC-10.cnf | 140  | 96      | 0.00     | 0.00 | 1.37       | 0.00         |
| 1173  | Network.or-70-20-9-UC-20.cnf | 140  | 109     | 0.00     | 0.00 | 0.84       | 0.00         |
| 1174  | Network.or-70-20-9-UC-30.cnf | 140  | 115     | 0.00     | 0.00 | 0.56       | 0.00         |
| 1175  | Network.or-70-20-9-UC-40.cnf | 140  | 122     | 0.00     | 0.00 | 0.36       | 0.00         |
| 1176  | Network.or-70-5-10-UC-10.cnf | 140  | 93      | 0.00     | 0.00 | 1.81       | 0.00         |
| 1177  | Network.or-70-5-10-UC-20.cnf | 140  | 98      | 0.00     | 0.00 | 1.54       | 0.00         |
| 1178  | Network.or-70-5-10-UC-30.cnf | 140  | 105     | 0.00     | 0.00 | 1.13       | 0.00         |
| 1179  | Network.or-70-5-10-UC-40.cnf | 140  | 110     | 0.00     | 0.00 | 0.65       | 0.00         |
| 1180  | Network.or-70-5-1-UC-10.cnf  | 140  | 89      | 0.00     | 0.00 | 2.06       | 0.00         |
| 1181  | Network.or-70-5-1-UC-20.cnf  | 140  | 111     | 0.00     | 0.00 | 0.59       | 0.00         |
| 1182  | Network.or-70-5-2-UC-10.cnf  | 140  | 88      | 0.00     | 0.00 | 2.22       | 0.00         |
| 1183  | Network.or-70-5-2-UC-20.cnf  | 140  | 100     | 0.00     | 0.00 | 1.27       | 0.00         |
| 1184  | Network.or-70-5-3-UC-30.cnf  | 140  | 117     | 0.00     | 0.00 | 0.40       | 0.00         |
| 1185  | Network.or-70-5-4-UC-10.cnf  | 140  | 85      | 0.00     | 0.00 | 2.27       | 0.00         |
| 1186  | Network.or-70-5-4-UC-20.cnf  | 140  | 97      | 0.00     | 0.00 | 1.39       | 0.00         |
| 1187  | Network.or-70-5-4-UC-30.cnf  | 140  | 110     | 0.00     | 0.00 | 0.96       | 0.00         |
| 1188  | Network.or-70-5-4-UC-40.cnf  | 140  | 122     | 0.00     | 0.00 | 0.24       | 0.00         |

| S. no | Benchmark                     | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|------|---------|----------|------|------------|--------------|
| 1189  | Network.or-70-5-5-UC-20.cnf   | 140  | 97      | 0.00     | 0.00 | 1.52       | 0.00         |
| 1190  | Network.or-70-5-5-UC-30.cnf   | 140  | 121     | 0.00     | 0.00 | 0.26       | 0.00         |
| 1191  | Network.or-70-5-5-UC-40.cnf   | 140  | 125     | 0.00     | 0.00 | 0.16       | 0.00         |
| 1192  | Network.or-70-5-6-UC-10.cnf   | 140  | 83      | 0.00     | 0.00 | 2.55       | 0.00         |
| 1193  | Network.or-70-5-6-UC-20.cnf   | 140  | 102     | 0.00     | 0.00 | 1.06       | 0.00         |
| 1194  | Network.or-70-5-6-UC-30.cnf   | 140  | 116     | 0.00     | 0.00 | 0.43       | 0.00         |
| 1195  | Network.or-70-5-7-UC-10.cnf   | 140  | 87      | 0.00     | 0.00 | 2.26       | 0.00         |
| 1196  | Network.or-70-5-7-UC-20.cnf   | 140  | 99      | 0.00     | 0.00 | 1.37       | 0.00         |
| 1197  | Network.or-70-5-7-UC-30.cnf   | 140  | 113     | 0.00     | 0.00 | 0.56       | 0.00         |
| 1198  | Network.or-70-5-7-UC-40.cnf   | 140  | 122     | 0.00     | 0.00 | 0.20       | 0.00         |
| 1199  | Network.or-70-5-8-UC-10.cnf   | 140  | 94      | 0.00     | 0.00 | 1.67       | 0.00         |
| 1200  | Network.or-70-5-8-UC-20.cnf   | 140  | 103     | 0.00     | 0.00 | 1.10       | 0.00         |
| 1201  | Network.or-70-5-8-UC-30.cnf   | 140  | 121     | 0.00     | 0.00 | 0.32       | 0.00         |
| 1202  | Network.or-70-5-8-UC-40.cnf   | 140  | 126     | 0.00     | 0.00 | 0.20       | 0.00         |
| 1203  | Network.or-70-5-9-UC-10.cnf   | 140  | 100     | 0.00     | 0.00 | 1.23       | 0.00         |
| 1204  | Network.or-70-5-9-UC-20.cnf   | 140  | 110     | 0.00     | 0.00 | 0.71       | 0.00         |
| 1205  | Network.or-70-5-9-UC-30.cnf   | 140  | 122     | 0.00     | 0.00 | 0.27       | 0.00         |
| 1206  | Network.sat-grid-pbl-0010.cnf | 110  | 79      | 0.00     | 0.00 | 1765.78    | 0.00         |
| 1207  | or_chain_154.fg.uai.cnf       | 1504 | 1697    | 0.01     | 0.04 | TO         | 0.00         |
| 1208  | or_chain_203.fg.uai.cnf       | 1479 | 1669    | 0.01     | 0.04 | TO         | 0.00         |
| 1209  | or_chain_218.fg.uai.cnf       | 113  | 122     | 0.00     | 0.00 | 38.48      | 0.00         |
| 1210  | Planning.3blocks.cnf          | 283  | 587     | 0.00     | 0.01 | 0.18       | 0.00         |
| 1211  | Planning.5step.cnf            | 177  | 175     | 0.00     | 0.00 | 0.39       | 0.00         |
| 1212  | Planning.bw_large.c.cnf       | 3016 | 3014    | 0.00     | 0.00 | 0.05       | 0.00         |
| 1213  | Planning.prob001.pddl.cnf     | 939  | 1216    | 0.00     | 0.01 | TO         | 0.00         |
| 1214  | Planning.tire-1.cnf           | 352  | 400     | 0.00     | 0.01 | 2.08       | 0.00         |
| 1215  | Planning.tire-2.cnf           | 550  | 589     | 0.00     | 0.01 | 11.31      | 0.00         |
| 1216  | prob001.pddl.cnf.uai.cnf      | 2366 | 2643    | 0.00     | 0.01 | TO         | 0.00         |
| 1217  | random.uf250-010.cnf          | 250  | 396     | 0.00     | 0.01 | 3.17       | 0.00         |
| 1218  | random.uf250-011.cnf          | 250  | 241     | 0.00     | 0.00 | 0.23       | 0.00         |
| 1219  | random.uf250-013.cnf          | 250  | 276     | 0.00     | 0.00 | 1.67       | 0.00         |
| 1220  | random.uf250-014.cnf          | 250  | 397     | 0.00     | 0.01 | 3.95       | 0.00         |
| 1221  | random.uf250-017.cnf          | 250  | 310     | 0.00     | 0.00 | 2.79       | 0.00         |
| 1222  | random.uf250-018.cnf          | 250  | 280     | 0.00     | 0.01 | 1.63       | 0.00         |
| 1223  | random.uf250-020.cnf          | 250  | 278     | 0.00     | 0.01 | 3.36       | 0.00         |

| S. no | Benchmark            | Vars | Clauses | SharpSAT | D4   | ApproxMCv3 | ProbsharpSAT |
|-------|----------------------|------|---------|----------|------|------------|--------------|
| 1224  | random.uf250-022.cnf | 250  | 239     | 0.00     | 0.00 | 0.42       | 0.00         |
| 1225  | random.uf250-023.cnf | 250  | 386     | 0.00     | 0.00 | 2.46       | 0.00         |
| 1226  | random.uf250-024.cnf | 250  | 247     | 0.00     | 0.00 | 0.37       | 0.00         |
| 1227  | random.uf250-026.cnf | 250  | 247     | 0.00     | 0.00 | 0.43       | 0.00         |
| 1228  | random.uf250-027.cnf | 250  | 307     | 0.00     | 0.01 | 3.14       | 0.00         |
| 1229  | random.uf250-028.cnf | 250  | 290     | 0.00     | 0.00 | 1.23       | 0.00         |
| 1230  | random.uf250-029.cnf | 250  | 236     | 0.00     | 0.00 | 0.23       | 0.00         |
| 1231  | random.uf250-02.cnf  | 250  | 257     | 0.00     | 0.00 | 0.60       | 0.00         |
| 1232  | random.uf250-031.cnf | 250  | 308     | 0.00     | 0.01 | 1.68       | 0.00         |
| 1233  | random.uf250-032.cnf | 250  | 251     | 0.00     | 0.00 | 0.85       | 0.00         |
| 1234  | random.uf250-034.cnf | 250  | 235     | 0.00     | 0.00 | 0.40       | 0.00         |
| 1235  | random.uf250-036.cnf | 250  | 238     | 0.00     | 0.00 | 0.76       | 0.00         |
| 1236  | random.uf250-038.cnf | 250  | 268     | 0.00     | 0.00 | 0.75       | 0.00         |
| 1237  | random.uf250-03.cnf  | 250  | 300     | 0.00     | 0.01 | 2.04       | 0.00         |
| 1238  | random.uf250-040.cnf | 250  | 349     | 0.00     | 0.01 | 2.86       | 0.00         |
| 1239  | random.uf250-041.cnf | 250  | 297     | 0.00     | 0.01 | 1.76       | 0.00         |
| 1240  | random.uf250-043.cnf | 250  | 239     | 0.00     | 0.00 | 0.46       | 0.00         |
| 1241  | random.uf250-045.cnf | 250  | 254     | 0.00     | 0.00 | 0.40       | 0.00         |
| 1242  | random.uf250-048.cnf | 250  | 380     | 0.00     | 0.01 | 2.95       | 0.00         |
| 1243  | random.uf250-050.cnf | 250  | 324     | 0.00     | 0.00 | 2.23       | 0.00         |
| 1244  | random.uf250-051.cnf | 250  | 295     | 0.00     | 0.00 | 1.15       | 0.00         |
| 1245  | random.uf250-052.cnf | 250  | 273     | 0.00     | 0.00 | 1.05       | 0.00         |
| 1246  | random.uf250-053.cnf | 250  | 322     | 0.00     | 0.01 | 1.79       | 0.00         |
| 1247  | random.uf250-054.cnf | 250  | 242     | 0.00     | 0.00 | 0.07       | 0.00         |
| 1248  | random.uf250-056.cnf | 250  | 615     | 0.00     | 0.00 | 3.56       | 0.00         |
| 1249  | random.uf250-057.cnf | 250  | 337     | 0.00     | 0.00 | 3.19       | 0.00         |
| 1250  | random.uf250-058.cnf | 250  | 335     | 0.00     | 0.00 | 2.34       | 0.00         |
| 1251  | random.uf250-059.cnf | 250  | 312     | 0.00     | 0.00 | 2.50       | 0.00         |
| 1252  | random.uf250-05.cnf  | 250  | 268     | 0.00     | 0.00 | 0.96       | 0.00         |
| 1253  | random.uf250-060.cnf | 250  | 284     | 0.00     | 0.01 | 1.53       | 0.00         |
| 1254  | random.uf250-062.cnf | 250  | 248     | 0.00     | 0.00 | 0.73       | 0.00         |
| 1255  | random.uf250-065.cnf | 250  | 347     | 0.00     | 0.00 | 2.02       | 0.00         |
| 1256  | random.uf250-067.cnf | 250  | 252     | 0.00     | 0.00 | 1.32       | 0.00         |
| 1257  | random.uf250-070.cnf | 250  | 336     | 0.00     | 0.00 | 3.43       | 0.00         |
| 1258  | random.uf250-071.cnf | 250  | 239     | 0.00     | 0.00 | 0.24       | 0.00         |

| S. no | Benchmark               | Vars   | Clauses | SharpSAT | D4    | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------|--------|---------|----------|-------|------------|--------------|
| 1259  | random.uf250-072.cnf    | 250    | 242     | 0.00     | 0.00  | 0.36       | 0.00         |
| 1260  | random.uf250-076.cnf    | 250    | 246     | 0.00     | 0.00  | 0.67       | 0.00         |
| 1261  | random.uf250-077.cnf    | 250    | 321     | 0.00     | 0.01  | 2.49       | 0.00         |
| 1262  | random.uf250-07.cnf     | 250    | 241     | 0.00     | 0.00  | 0.70       | 0.00         |
| 1263  | random.uf250-080.cnf    | 250    | 277     | 0.00     | 0.00  | 1.33       | 0.00         |
| 1264  | random.uf250-082.cnf    | 250    | 323     | 0.00     | 0.01  | 2.34       | 0.00         |
| 1265  | random.uf250-086.cnf    | 250    | 244     | 0.00     | 0.00  | 0.61       | 0.00         |
| 1266  | random.uf250-087.cnf    | 250    | 315     | 0.00     | 0.00  | 2.20       | 0.00         |
| 1267  | random.uf250-090.cnf    | 250    | 340     | 0.00     | 0.01  | 3.55       | 0.00         |
| 1268  | random.uf250-092.cnf    | 250    | 295     | 0.00     | 0.01  | 3.04       | 0.00         |
| 1269  | random.uf250-093.cnf    | 250    | 251     | 0.00     | 0.00  | 0.30       | 0.00         |
| 1270  | random.uf250-094.cnf    | 250    | 261     | 0.00     | 0.00  | 0.87       | 0.00         |
| 1271  | random.uf250-096.cnf    | 250    | 307     | 0.00     | 0.00  | 1.83       | 0.00         |
| 1272  | random.uf250-097.cnf    | 250    | 297     | 0.00     | 0.00  | 1.57       | 0.00         |
| 1273  | random.uf250-099.cnf    | 250    | 271     | 0.00     | 0.00  | 1.26       | 0.00         |
| 1274  | random.uf250-09.cnf     | 250    | 289     | 0.00     | 0.00  | 1.48       | 0.00         |
| 1275  | random.wff.3.75.315.cnf | 75     | 74      | 0.00     | 0.00  | 0.00       | 0.00         |
| 1276  | s1196.scan.erg.cnf      | 1211   | 1184    | 0.00     | 0.00  | 0.85       | 0.00         |
| 1277  | s1238.scan.erg.cnf      | 1145   | 1139    | 0.00     | 0.00  | 0.81       | 0.00         |
| 1278  | s1423.scan.erg.cnf      | 1709   | 1630    | 0.00     | 0.00  | 8.25       | 0.00         |
| 1279  | s1488.scan.erg.cnf      | 1348   | 1382    | 0.00     | 0.00  | 0.16       | 0.00         |
| 1280  | s1494.scan.erg.cnf      | 1338   | 1476    | 0.00     | 0.00  | 0.21       | 0.00         |
| 1281  | s386.scan.erg.cnf       | 358    | 387     | 0.00     | 0.00  | 0.12       | 0.00         |
| 1282  | 06A-1.cnf               | 2226   | 6081    | 4967.53  | 79.02 | 348.16     | TO           |
| 1283  | 10_14_s.21.uai.cnf      | 154936 | 331422  | TO       | TO    | TO         | TO           |
| 1284  | 10_16_s.21.uai.cnf      | 157082 | 335855  | TO       | TO    | TO         | TO           |
| 1285  | 11_17_s.21.uai.cnf      | 153411 | 328080  | TO       | TO    | TO         | TO           |
| 1286  | 11_3_s.21.uai.cnf       | 156129 | 333859  | TO       | TO    | TO         | TO           |
| 1287  | 11_4_s.21.uai.cnf       | 153253 | 328103  | TO       | TO    | TO         | TO           |
| 1288  | 12_15_s.21.uai.cnf      | 153744 | 329217  | TO       | TO    | TO         | TO           |
| 1289  | 12_20_s.21.uai.cnf      | 152764 | 327221  | TO       | TO    | TO         | TO           |
| 1290  | 12_4_s.21.uai.cnf       | 149538 | 320096  | TO       | TO    | TO         | TO           |
| 1291  | 1_28_s.21.uai.cnf       | 152571 | 326780  | TO       | TO    | TO         | TO           |
| 1292  | 13_14_s.21.uai.cnf      | 151044 | 322487  | TO       | TO    | TO         | TO           |
| 1293  | 13_30_s.21.uai.cnf      | 151062 | 323438  | TO       | TO    | TO         | TO           |

| S. no | Benchmark              | Vars   | Clauses | SharpSAT | D4 | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------|--------|---------|----------|----|------------|--------------|
| 1294  | 13_9_s.21.uai.cnf      | 150400 | 322347  | TO       | TO | TO         | TO           |
| 1295  | 1401.wcsp.uai.cnf      | 23328  | 75349   | TO       | TO | TO         | TO           |
| 1296  | 1403.wcsp.uai.cnf      | 29214  | 97679   | TO       | TO | TO         | TO           |
| 1297  | 1405.wcsp.uai.cnf      | 39186  | 141021  | TO       | TO | TO         | TO           |
| 1298  | 1407.wcsp.uai.cnf      | 46984  | 174610  | TO       | TO | TO         | TO           |
| 1299  | 14_26_s.21.uai.cnf     | 152912 | 327198  | TO       | TO | TO         | TO           |
| 1300  | 14_30_s.21.uai.cnf     | 153433 | 328080  | TO       | TO | TO         | TO           |
| 1301  | 1504.wcsp.uai.cnf      | 10232  | 31407   | TO       | TO | TO         | TO           |
| 1302  | 1506.wcsp.uai.cnf      | 33480  | 122109  | TO       | TO | TO         | TO           |
| 1303  | 15_3_s.21.uai.cnf      | 154246 | 330099  | TO       | TO | TO         | TO           |
| 1304  | 16_16_s.21.uai.cnf     | 151499 | 324088  | TO       | TO | TO         | TO           |
| 1305  | 16_18_s.21.uai.cnf     | 154485 | 330772  | TO       | TO | TO         | TO           |
| 1306  | 17_4_s.21.uai.cnf      | 155625 | 332745  | TO       | TO | TO         | TO           |
| 1307  | 18_10_s.21.uai.cnf     | 150511 | 322092  | TO       | TO | TO         | TO           |
| 1308  | 18_11_s.21.uai.cnf     | 147635 | 316104  | TO       | TO | TO         | TO           |
| 1309  | 18_1_s.21.uai.cnf      | 149345 | 319887  | TO       | TO | TO         | TO           |
| 1310  | 18_21_s.21.uai.cnf     | 152381 | 326571  | TO       | TO | TO         | TO           |
| 1311  | 18_30_s.21.uai.cnf     | 153428 | 328312  | TO       | TO | TO         | TO           |
| 1312  | 19_12_s.21.uai.cnf     | 154539 | 331004  | TO       | TO | TO         | TO           |
| 1313  | 19_20_s.21.uai.cnf     | 154294 | 330331  | TO       | TO | TO         | TO           |
| 1314  | 19_25_s.21.uai.cnf     | 152279 | 325875  | TO       | TO | TO         | TO           |
| 1315  | 19_4_s.21.uai.cnf      | 154441 | 330308  | TO       | TO | TO         | TO           |
| 1316  | 20_12_s.21.uai.cnf     | 151996 | 325202  | TO       | TO | TO         | TO           |
| 1317  | 20_5_s.21.uai.cnf      | 155168 | 332095  | TO       | TO | TO         | TO           |
| 1318  | 20_9_s.21.uai.cnf      | 155417 | 332304  | TO       | TO | TO         | TO           |
| 1319  | 2_17_s.21.uai.cnf      | 151783 | 324993  | TO       | TO | TO         | TO           |
| 1320  | 2_28_s.21.uai.cnf      | 152987 | 327430  | TO       | TO | TO         | TO           |
| 1321  | 2_2_s.21.uai.cnf       | 151766 | 324761  | TO       | TO | TO         | TO           |
| 1322  | 28.wcsp.uai.cnf        | 11028  | 27894   | TO       | TO | TO         | TO           |
| 1323  | 29.wcsp.uai.cnf        | 1126   | 2478    | TO       | TO | TO         | TO           |
| 1324  | 2bitadd_11.cnf.uai.cnf | 1584   | 2031    | TO       | TO | TO         | TO           |
| 1325  | 3_16_s.21.uai.cnf      | 152972 | 327430  | TO       | TO | TO         | TO           |
| 1326  | 3_20_s.21.uai.cnf      | 154477 | 330772  | TO       | TO | TO         | TO           |
| 1327  | 404.wcsp.uai.cnf       | 1678   | 3333    | TO       | TO | TO         | TO           |
| 1328  | 408.wcsp.uai.cnf       | 4992   | 11520   | TO       | TO | TO         | TO           |

| S. no | Benchmark           | Vars   | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|---------------------|--------|---------|----------|--------|------------|--------------|
| 1329  | 412.wcsp.uai.cnf    | 9540   | 25093   | TO       | TO     | TO         | TO           |
| 1330  | 414.wcsp.uai.cnf    | 21272  | 72045   | TO       | TO     | TO         | TO           |
| 1331  | 4_24_s.21.uai.cnf   | 150185 | 321906  | TO       | TO     | TO         | TO           |
| 1332  | 42.wcsp.uai.cnf     | 3282   | 8368    | TO       | TO     | TO         | TO           |
| 1333  | 4_30_s.21.uai.cnf   | 151139 | 323902  | TO       | TO     | TO         | TO           |
| 1334  | 503.wcsp.uai.cnf    | 1672   | 3777    | TO       | 168.63 | TO         | TO           |
| 1335  | 505.wcsp.uai.cnf    | 5172   | 13986   | TO       | TO     | TO         | TO           |
| 1336  | 507.wcsp.uai.cnf    | 12348  | 38010   | TO       | TO     | TO         | TO           |
| 1337  | 509.wcsp.uai.cnf    | 18248  | 59958   | TO       | TO     | TO         | TO           |
| 1338  | 5_3_s.21.uai.cnf    | 150530 | 322092  | TO       | TO     | TO         | TO           |
| 1339  | 5.wcsp.uai.cnf      | 12360  | 56381   | TO       | TO     | TO         | TO           |
| 1340  | 6_23_s.21.uai.cnf   | 159521 | 341193  | TO       | TO     | TO         | TO           |
| 1341  | 6_3_s.21.uai.cnf    | 154906 | 331422  | TO       | TO     | TO         | TO           |
| 1342  | 7_11_s.21.uai.cnf   | 159027 | 339847  | TO       | TO     | TO         | TO           |
| 1343  | 7_12_s.21.uai.cnf   | 153135 | 328358  | TO       | TO     | TO         | TO           |
| 1344  | 7_15_s.21.uai.cnf   | 152868 | 327453  | TO       | TO     | TO         | TO           |
| 1345  | 7_29_s.21.uai.cnf   | 152765 | 326989  | TO       | TO     | TO         | TO           |
| 1346  | 7_9_s.21.uai.cnf    | 154523 | 331004  | TO       | TO     | TO         | TO           |
| 1347  | 8_18_s.21.uai.cnf   | 152176 | 325411  | TO       | TO     | TO         | TO           |
| 1348  | 8_25_s.21.uai.cnf   | 149079 | 318982  | TO       | TO     | TO         | TO           |
| 1349  | 8_8_s.21.uai.cnf    | 150475 | 321860  | TO       | TO     | TO         | TO           |
| 1350  | 90-38-1e120.erg.cnf | 3938   | 3797    | TO       | 17.18  | TO         | TO           |
| 1351  | 90-38-1e80.erg.cnf  | 3938   | 3797    | TO       | 15.56  | TO         | TO           |
| 1352  | 9_10_s.21.uai.cnf   | 153949 | 329426  | TO       | TO     | TO         | TO           |
| 1353  | 9_24_s.21.uai.cnf   | 155205 | 332095  | TO       | TO     | TO         | TO           |
| 1354  | bmc.bmc-ibm-11.cnf  | 32109  | 37773   | TO       | 555.88 | TO         | TO           |
| 1355  | bmc.bmc-ibm-7.cnf   | 8710   | 10547   | TO       | 375.31 | TO         | TO           |
| 1356  | BN_0.erg.cnf        | 1076   | 976     | TO       | TO     | TO         | TO           |
| 1357  | BN_100.erg.cnf      | 89285  | 463988  | TO       | TO     | TO         | TO           |
| 1358  | BN_101.erg.cnf      | 89279  | 463988  | TO       | TO     | TO         | TO           |
| 1359  | BN_11.erg.cnf       | 3122   | 3019    | TO       | TO     | TO         | TO           |
| 1360  | BN_126.erg.cnf      | 1910   | 3560    | TO       | TO     | TO         | TO           |
| 1361  | BN_127.erg.cnf      | 1917   | 3569    | TO       | TO     | TO         | TO           |
| 1362  | BN_128.erg.cnf      | 1912   | 3531    | TO       | TO     | TO         | TO           |
| 1363  | BN_129.erg.cnf      | 1911   | 3566    | TO       | TO     | TO         | TO           |

| S. no | Benchmark      | Vars  | Clauses | SharpSAT | D4 | ApproxMCv3 | ProbsharpSAT |
|-------|----------------|-------|---------|----------|----|------------|--------------|
| 1364  | BN_12.erg.cnf  | 2022  | 1932    | TO       | TO | TO         | TO           |
| 1365  | BN_130.erg.cnf | 1914  | 3628    | TO       | TO | TO         | TO           |
| 1366  | BN_131.erg.cnf | 1899  | 3466    | TO       | TO | TO         | TO           |
| 1367  | BN_132.erg.cnf | 1916  | 3644    | TO       | TO | TO         | TO           |
| 1368  | BN_133.erg.cnf | 1908  | 3619    | TO       | TO | TO         | TO           |
| 1369  | BN_134.erg.cnf | 1901  | 3451    | TO       | TO | TO         | TO           |
| 1370  | BN_13.erg.cnf  | 2488  | 2363    | TO       | TO | TO         | TO           |
| 1371  | BN_14.erg.cnf  | 1906  | 1791    | TO       | TO | TO         | TO           |
| 1372  | BN_15.erg.cnf  | 2424  | 2304    | TO       | TO | TO         | TO           |
| 1373  | BN_16.erg.cnf  | 20162 | 21831   | TO       | TO | TO         | TO           |
| 1374  | BN_17.erg.cnf  | 19507 | 21941   | TO       | TO | TO         | TO           |
| 1375  | BN_18.erg.cnf  | 19721 | 21815   | TO       | TO | TO         | TO           |
| 1376  | BN_19.erg.cnf  | 19883 | 22572   | TO       | TO | TO         | TO           |
| 1377  | BN_1.erg.cnf   | 1448  | 1348    | TO       | TO | TO         | TO           |
| 1378  | BN_2.erg.cnf   | 2650  | 2550    | TO       | TO | TO         | TO           |
| 1379  | BN_3.erg.cnf   | 1574  | 1474    | TO       | TO | TO         | TO           |
| 1380  | BN_4.erg.cnf   | 2664  | 2564    | TO       | TO | TO         | TO           |
| 1381  | BN_5.erg.cnf   | 2804  | 2679    | TO       | TO | TO         | TO           |
| 1382  | BN_69.erg.cnf  | 8402  | 15287   | TO       | TO | TO         | TO           |
| 1383  | BN_69.uai.cnf  | 7079  | 60285   | TO       | TO | TO         | TO           |
| 1384  | BN_6.erg.cnf   | 4164  | 4039    | TO       | TO | TO         | TO           |
| 1385  | BN_70.erg.cnf  | 16551 | 19189   | TO       | TO | TO         | TO           |
| 1386  | BN_70.uai.cnf  | 15223 | 100519  | TO       | TO | TO         | TO           |
| 1387  | BN_71.erg.cnf  | 14399 | 24689   | TO       | TO | TO         | TO           |
| 1388  | BN_71.uai.cnf  | 13308 | 87804   | TO       | TO | TO         | TO           |
| 1389  | BN_72.erg.cnf  | 23132 | 37169   | TO       | TO | TO         | TO           |
| 1390  | BN_72.uai.cnf  | 16550 | 109159  | TO       | TO | TO         | TO           |
| 1391  | BN_73.erg.cnf  | 22067 | 45725   | TO       | TO | TO         | TO           |
| 1392  | BN_73.uai.cnf  | 15476 | 104206  | TO       | TO | TO         | TO           |
| 1393  | BN_74.erg.cnf  | 7258  | 22704   | TO       | TO | TO         | TO           |
| 1394  | BN_74.uai.cnf  | 5983  | 41149   | TO       | TO | TO         | TO           |
| 1395  | BN_75.erg.cnf  | 16103 | 22995   | TO       | TO | TO         | TO           |
| 1396  | BN_75.uai.cnf  | 12800 | 86972   | TO       | TO | TO         | TO           |
| 1397  | BN_76.erg.cnf  | 23041 | 48105   | TO       | TO | TO         | TO           |
| 1398  | BN_76.uai.cnf  | 18518 | 132833  | TO       | TO | TO         | TO           |



| S. no | Benchmark                           | Vars  | Clauses | SharpSAT | D4    | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------------|-------|---------|----------|-------|------------|--------------|
| 1399  | BN_77.erg.cnf                       | 14915 | 27243   | TO       | TO    | TO         | TO           |
| 1400  | BN_7.erg.cnf                        | 1762  | 1667    | TO       | TO    | TO         | TO           |
| 1401  | BN_81.erg.cnf                       | 16327 | 43098   | TO       | TO    | TO         | TO           |
| 1402  | BN_82.erg.cnf                       | 16944 | 45421   | TO       | TO    | TO         | TO           |
| 1403  | BN_84.erg.cnf                       | 16393 | 43091   | TO       | TO    | TO         | TO           |
| 1404  | BN_86.erg.cnf                       | 8538  | 527982  | TO       | TO    | TO         | TO           |
| 1405  | BN_87.erg.cnf                       | 8650  | 564969  | TO       | TO    | TO         | TO           |
| 1406  | BN_88.erg.cnf                       | 8618  | 562493  | TO       | TO    | TO         | TO           |
| 1407  | BN_89.erg.cnf                       | 8678  | 548417  | TO       | TO    | TO         | TO           |
| 1408  | BN_8.erg.cnf                        | 1724  | 1624    | TO       | TO    | TO         | TO           |
| 1409  | BN_90.erg.cnf                       | 8690  | 549719  | TO       | TO    | TO         | TO           |
| 1410  | BN_91.erg.cnf                       | 8674  | 565134  | TO       | TO    | TO         | TO           |
| 1411  | BN_92.erg.cnf                       | 8692  | 565292  | TO       | TO    | TO         | TO           |
| 1412  | BN_93.erg.cnf                       | 8632  | 563531  | TO       | TO    | TO         | TO           |
| 1413  | BN_94.erg.cnf                       | 68990 | 427285  | TO       | TO    | TO         | TO           |
| 1414  | BN_95.erg.cnf                       | 69011 | 427285  | TO       | TO    | TO         | TO           |
| 1415  | BN_96.erg.cnf                       | 17500 | 23487   | TO       | TO    | TO         | TO           |
| 1416  | BN_97.erg.cnf                       | 17500 | 23487   | TO       | TO    | TO         | TO           |
| 1417  | BN_98.erg.cnf                       | 45700 | 63982   | TO       | TO    | TO         | TO           |
| 1418  | BN_99.erg.cnf                       | 45346 | 63982   | TO       | TO    | TO         | TO           |
| 1419  | BN_9.erg.cnf                        | 1368  | 1263    | TO       | TO    | TO         | TO           |
| 1420  | bwt4ac.wcsp.uai.cnf                 | 14717 | 72101   | TO       | TO    | TO         | TO           |
| 1421  | bwt5ac.wcsp.uai.cnf                 | 55920 | 357020  | TO       | TO    | TO         | TO           |
| 1422  | circuit.2bitadd_11.cnf              | 649   | 1110    | TO       | TO    | TO         | TO           |
| 1423  | circuit.2bitadd_12.cnf              | 708   | 1210    | TO       | TO    | TO         | TO           |
| 1424  | circuit.3bitadd_31.cnf              | 8432  | 23557   | TO       | TO    | TO         | TO           |
| 1425  | circuit.3bitadd_32.cnf              | 8704  | 24323   | TO       | TO    | TO         | TO           |
| 1426  | circuit.alu2_gr_rcs_w8.shuffled.cnf | 4080  | 83902   | TO       | TO    | TO         | TO           |
| 1427  | circuit.c1355.isc.cnf               | 555   | 1159    | TO       | 83.04 | 5.23       | TO           |
| 1428  | circuit.c499.isc.cnf                | 243   | 523     | TO       | 3.82  | 1.38       | TO           |
| 1429  | circuit.c7552.isc.cnf               | 3185  | 5718    | TO       | TO    | 232.25     | TO           |
| 1430  | circuit.c880_gr_rcs_w7.shuffled.cnf | 4592  | 61745   | TO       | TO    | TO         | TO           |
| 1431  | cpcs422b.erg.cnf                    | 8580  | 497228  | TO       | TO    | TO         | TO           |
| 1432  | CSP_11.uai.cnf                      | 1126  | 2478    | TO       | TO    | TO         | TO           |
| 1433  | CSP_13.uai.cnf                      | 1678  | 3333    | TO       | TO    | TO         | TO           |

| S. no | Benchmark                                      | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|--|-------|---------|----------|--------|------------|--------------|
| 1434  | DSJC125.1.4.wcsp.uai.cnf                       | 1972  | 12651   | TO       | TO     | TO         | TO           |
| 1435  | elephant_rescaled_1002.K10.F1.5.model.uai.cnf  | 15961 | 18420   | TO       | TO     | TO         | TO           |
| 1436  | elephant_rescaled_1002.K15.F1.25.model.uai.cnf | 32099 | 37695   | TO       | TO     | TO         | TO           |
| 1437  | graph05.wcsp.uai.cnf                           | 5776  | 1379420 | TO       | TO     | TO         | TO           |
| 1438  | graph06.wcsp.uai.cnf                           | 11482 | 2857369 | TO       | TO     | TO         | TO           |
| 1439  | graph11.wcsp.uai.cnf                           | 19654 | 4978696 | TO       | TO     | TO         | TO           |
| 1440  | graph13.wcsp.uai.cnf                           | 27218 | 7283222 | TO       | TO     | TO         | TO           |
| 1441  | grid10x10.f10.uai.cnf                          | 760   | 1020    | TO       | 252.04 | TO         | TO           |
| 1442  | Grids_12.uai.cnf                               | 760   | 1020    | TO       | 254.30 | TO         | TO           |
| 1443  | Grids_15.uai.cnf                               | 3120  | 4240    | TO       | TO     | TO         | TO           |
| 1444  | Grids_16.uai.cnf                               | 3120  | 4240    | TO       | TO     | TO         | TO           |
| 1445  | Grids_17.uai.cnf                               | 3120  | 4240    | TO       | TO     | TO         | TO           |
| 1446  | Grids_18.uai.cnf                               | 3120  | 4240    | TO       | TO     | TO         | TO           |
| 1447  | Grids_19.uai.cnf                               | 12800 | 17600   | TO       | TO     | TO         | TO           |
| 1448  | Grids_20.uai.cnf                               | 50880 | 69760   | TO       | TO     | TO         | TO           |
| 1449  | Grids_21.uai.cnf                               | 12800 | 17600   | TO       | TO     | TO         | TO           |
| 1450  | Grids_22.uai.cnf                               | 12800 | 17600   | TO       | TO     | TO         | TO           |
| 1451  | Grids_23.uai.cnf                               | 12640 | 17280   | TO       | TO     | TO         | TO           |
| 1452  | Grids_24.uai.cnf                               | 12640 | 17280   | TO       | TO     | TO         | TO           |
| 1453  | Grids_25.uai.cnf                               | 12640 | 17280   | TO       | TO     | TO         | TO           |
| 1454  | Grids_26.uai.cnf                               | 3200  | 4400    | TO       | TO     | TO         | TO           |
| 1455  | Grids_27.uai.cnf                               | 12640 | 17280   | TO       | TO     | TO         | TO           |
| 1456  | Grids_28.uai.cnf                               | 3200  | 4400    | TO       | TO     | TO         | TO           |
| 1457  | Grids_29.uai.cnf                               | 3200  | 4400    | TO       | TO     | TO         | TO           |
| 1458  | Grids_30.uai.cnf                               | 3120  | 4240    | TO       | TO     | TO         | TO           |
| 1459  | Handmade.20_rd_r45.cnf                         | 190   | 20349   | TO       | TO     | TO         | TO           |
| 1460  | Handmade.23_rd_r45.cnf                         | 253   | 42504   | TO       | TO     | TO         | TO           |
| 1461  | Handmade.5_100_sd_schur.cnf                    | 500   | 12169   | TO       | TO     | TO         | TO           |
| 1462  | Handmade.fphp-010-020.cnf                      | 200   | 2810    | 101.04   | TO     | TO         | TO           |
| 1463  | Handmade.fphp-015-020.cnf                      | 300   | 4965    | TO       | TO     | TO         | TO           |
| 1464  | Handmade.lang15.cnf                            | 1024  | 12594   | TO       | TO     | TO         | TO           |
| 1465  | Handmade.lang16.cnf                            | 1024  | 12594   | TO       | TO     | TO         | TO           |
| 1466  | Handmade.lang19.cnf                            | 1444  | 21510   | TO       | TO     | TO         | TO           |
| 1467  | Handmade.lang20.cnf                            | 1600  | 25222   | TO       | TO     | TO         | TO           |
| 1468  | Handmade.lang23.cnf                            | 2116  | 38872   | TO       | TO     | TO         | TO           |

| S. no | Benchmark                                   | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|---|-------|---------|----------|--------|------------|--------------|
| 1469  | Handmade.lang24.cnf                         | 2304  | 44330   | TO       | TO     | TO         | TO           |
| 1470  | Handmade.lang27.cnf                         | 2916  | 63722   | TO       | TO     | TO         | TO           |
| 1471  | Handmade.lang28.cnf                         | 3136  | 71262   | TO       | TO     | TO         | TO           |
| 1472  | Handmade.ls10-normalized.cnf                | 657   | 4761    | TO       | TO     | TO         | TO           |
| 1473  | Handmade.ls11-normalized.cnf                | 910   | 7480    | TO       | TO     | TO         | TO           |
| 1474  | Handmade.ls12-normalized.cnf                | 1221  | 11231   | TO       | TO     | TO         | TO           |
| 1475  | Handmade.ls13-normalized.cnf                | 1596  | 16248   | TO       | TO     | TO         | TO           |
| 1476  | Handmade.ls14-normalized.cnf                | 2041  | 22789   | TO       | TO     | TO         | TO           |
| 1477  | Handmade.ls15-normalized.cnf                | 2562  | 31136   | TO       | TO     | TO         | TO           |
| 1478  | Handmade.ls16-normalized.cnf                | 3165  | 41595   | TO       | TO     | TO         | TO           |
| 1479  | Handmade.ls8-normalized.cnf                 | 301   | 1603    | TO       | TO     | TO         | TO           |
| 1480  | Handmade.ls9-normalized.cnf                 | 456   | 2864    | TO       | TO     | TO         | TO           |
| 1481  | le450_5a_2.wcsp.uai.cnf                     | 12328 | 23306   | TO       | TO     | TO         | TO           |
| 1482  | le450_5a_3.wcsp.uai.cnf                     | 12778 | 53226   | TO       | TO     | TO         | TO           |
| 1483  | le450_5a_4.wcsp.uai.cnf                     | 13228 | 94574   | TO       | TO     | TO         | TO           |
| 1484  | llama_rescaled_3006.K10.F1.75.model.uai.cnf | 17647 | 19920   | TO       | TO     | TO         | TO           |
| 1485  | llama_rescaled_4002.K10.F1.75.model.uai.cnf | 17675 | 19920   | TO       | TO     | TO         | TO           |
| 1486  | logistics.logistics.d.cnf                   | 4713  | 10171   | TO       | TO     | TO         | TO           |
| 1487  | min-16s.cnf                                 | 2265  | 4510    | TO       | TO     | TO         | TO           |
| 1488  | min-4s.cnf                                  | 573   | 1126    | 736.96   | TO     | 56.59      | TO           |
| 1489  | myciel5g_3.wcsp.uai.cnf                     | 613   | 2312    | TO       | TO     | TO         | TO           |
| 1490  | myciel5g_4.wcsp.uai.cnf                     | 660   | 4105    | TO       | TO     | TO         | TO           |
| 1491  | myciel5g_5.wcsp.uai.cnf                     | 707   | 6417    | TO       | TO     | TO         | TO           |
| 1492  | Network.50-18-4-q.cnf                       | 1548  | 1468    | TO       | TO     | TO         | TO           |
| 1493  | Network.50-20-10-q.cnf                      | 1920  | 1951    | TO       | TO     | TO         | TO           |
| 1494  | Network.50-20-5-q.cnf                       | 1920  | 1945    | TO       | TO     | TO         | TO           |
| 1495  | Network.50-20-7-q.cnf                       | 1920  | 1882    | TO       | TO     | TO         | TO           |
| 1496  | Network.75-19-9-q.cnf                       | 1729  | 1032    | TO       | 25.64  | TO         | TO           |
| 1497  | Network.75-21-5-q.cnf                       | 2121  | 1292    | TO       | 49.74  | TO         | TO           |
| 1498  | Network.75-22-2-q.cnf                       | 2332  | 1558    | TO       | 303.38 | TO         | TO           |
| 1499  | Network.75-22-5-q.cnf                       | 2332  | 1414    | TO       | 52.15  | TO         | TO           |
| 1500  | Network.75-23-3-q.cnf                       | 2553  | 1585    | TO       | 582.91 | TO         | TO           |
| 1501  | Network.75-23-6-q.cnf                       | 2553  | 1580    | TO       | 633.11 | TO         | TO           |
| 1502  | Network.75-23-7-q.cnf                       | 2553  | 1517    | TO       | 555.73 | TO         | TO           |
| 1503  | Network.75-24-7-q.cnf                       | 2784  | 1556    | TO       | 129.59 | TO         | TO           |

| S. no | Benchmark              | Vars  | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|------------------------|-------|---------|----------|--------|------------|--------------|
| 1504  | Network.75-25-10-q.cnf | 3025  | 1788    | TO       | TO     | TO         | TO           |
| 1505  | Network.75-25-2-q.cnf  | 3025  | 1853    | TO       | 365.59 | TO         | TO           |
| 1506  | Network.75-25-3-q.cnf  | 3025  | 1894    | TO       | TO     | TO         | TO           |
| 1507  | Network.75-25-4-q.cnf  | 3025  | 1935    | TO       | TO     | TO         | TO           |
| 1508  | Network.75-25-6-q.cnf  | 3025  | 1908    | TO       | TO     | TO         | TO           |
| 1509  | Network.75-25-7-q.cnf  | 3025  | 1836    | TO       | TO     | TO         | TO           |
| 1510  | Network.75-25-8-q.cnf  | 3025  | 1921    | TO       | TO     | TO         | TO           |
| 1511  | Network.75-25-9-q.cnf  | 3025  | 1764    | TO       | 355.29 | TO         | TO           |
| 1512  | Network.75-26-10-q.cnf | 3276  | 2036    | TO       | 248.85 | TO         | TO           |
| 1513  | Network.75-26-1-q.cnf  | 3276  | 1868    | TO       | 271.18 | TO         | TO           |
| 1514  | Network.75-26-2-q.cnf  | 3276  | 1828    | TO       | TO     | TO         | TO           |
| 1515  | Network.75-26-3-q.cnf  | 3276  | 2046    | TO       | TO     | TO         | TO           |
| 1516  | Network.75-26-4-q.cnf  | 3276  | 1771    | TO       | 187.63 | TO         | TO           |
| 1517  | Network.75-26-5-q.cnf  | 3276  | 2001    | TO       | TO     | TO         | TO           |
| 1518  | Network.75-26-6-q.cnf  | 3276  | 1958    | TO       | TO     | TO         | TO           |
| 1519  | Network.75-26-7-q.cnf  | 3276  | 1830    | TO       | 277.27 | TO         | TO           |
| 1520  | Network.75-26-9-q.cnf  | 3276  | 2111    | TO       | TO     | TO         | TO           |
| 1521  | Network.90-34-7-q.cnf  | 5644  | 1946    | TO       | 11.79  | TO         | TO           |
| 1522  | Network.90-38-10-q.cnf | 7068  | 2402    | 2682.66  | 27.64  | TO         | TO           |
| 1523  | Network.90-38-1-q.cnf  | 7068  | 2398    | TO       | 15.22  | TO         | TO           |
| 1524  | Network.90-38-7-q.cnf  | 7068  | 2513    | TO       | 54.55  | TO         | TO           |
| 1525  | Network.90-42-10-q.cnf | 8652  | 3027    | TO       | 239.85 | TO         | TO           |
| 1526  | Network.90-42-1-q.cnf  | 8652  | 3032    | TO       | 33.51  | TO         | TO           |
| 1527  | Network.90-42-3-q.cnf  | 8652  | 3045    | TO       | 14.11  | TO         | TO           |
| 1528  | Network.90-42-4-q.cnf  | 8652  | 2982    | TO       | 42.23  | TO         | TO           |
| 1529  | Network.90-42-7-q.cnf  | 8652  | 3001    | TO       | 14.22  | TO         | TO           |
| 1530  | Network.90-42-8-q.cnf  | 8652  | 2955    | TO       | 67.46  | TO         | TO           |
| 1531  | Network.90-42-9-q.cnf  | 8652  | 2944    | TO       | 31.39  | TO         | TO           |
| 1532  | Network.90-46-1-q.cnf  | 10396 | 3374    | TO       | 17.44  | TO         | TO           |
| 1533  | Network.90-46-2-q.cnf  | 10396 | 3640    | TO       | 43.59  | TO         | TO           |
| 1534  | Network.90-46-3-q.cnf  | 10396 | 3577    | TO       | 20.31  | TO         | TO           |
| 1535  | Network.90-46-4-q.cnf  | 10396 | 3322    | TO       | 31.58  | TO         | TO           |
| 1536  | Network.90-46-5-q.cnf  | 10396 | 3490    | TO       | 35.84  | TO         | TO           |
| 1537  | Network.90-46-6-q.cnf  | 10396 | 3549    | TO       | 30.00  | TO         | TO           |
| 1538  | Network.90-46-7-q.cnf  | 10396 | 3520    | TO       | 23.05  | TO         | TO           |

| S. no | Benchmark                     | Vars   | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------------|--------|---------|----------|--------|------------|--------------|
| 1539  | Network.90-46-8-q.cnf         | 10396  | 3469    | TO       | 11.38  | TO         | TO           |
| 1540  | Network.90-46-9-q.cnf         | 10396  | 3293    | TO       | 34.05  | TO         | TO           |
| 1541  | Network.90-50-10-q.cnf        | 12300  | 4316    | TO       | 89.11  | TO         | TO           |
| 1542  | Network.90-50-1-q.cnf         | 12300  | 4268    | TO       | 313.07 | TO         | TO           |
| 1543  | Network.90-50-3-q.cnf         | 12300  | 3889    | TO       | 13.87  | TO         | TO           |
| 1544  | Network.90-50-4-q.cnf         | 12300  | 3798    | TO       | 21.02  | TO         | TO           |
| 1545  | Network.90-50-5-q.cnf         | 12300  | 3949    | TO       | 22.58  | TO         | TO           |
| 1546  | Network.90-50-6-q.cnf         | 12300  | 3909    | TO       | 9.60   | TO         | TO           |
| 1547  | Network.90-50-9-q.cnf         | 12300  | 4179    | TO       | 184.15 | TO         | TO           |
| 1548  | Network.fs-07.net.cnf         | 3710   | 4718    | TO       | TO     | TO         | TO           |
| 1549  | Network.fs-10.net.cnf         | 10220  | 13470   | TO       | TO     | TO         | TO           |
| 1550  | Network.fs-13.net.cnf         | 21788  | 29276   | TO       | TO     | TO         | TO           |
| 1551  | Network.fs-16.net.cnf         | 39872  | 54288   | TO       | TO     | TO         | TO           |
| 1552  | Network.fs-19.net.cnf         | 65930  | 90554   | TO       | TO     | TO         | TO           |
| 1553  | Network.fs-22.net.cnf         | 101420 | 140250  | TO       | TO     | TO         | TO           |
| 1554  | Network.fs-25.net.cnf         | 147800 | 205400  | TO       | TO     | TO         | TO           |
| 1555  | Network.fs-28.net.cnf         | 206528 | 288232  | TO       | TO     | TO         | TO           |
| 1556  | Network.fs-29.net.cnf         | 229100 | 320073  | TO       | TO     | TO         | TO           |
| 1557  | Network.sat-grid-pbl-0025.cnf | 650    | 598     | TO       | 5.61   | TO         | TO           |
| 1558  | Network.sat-grid-pbl-0030.cnf | 930    | 663     | TO       | 0.80   | TO         | TO           |
| 1559  | or_chain_103.fg.uai.cnf       | 2640   | 3316    | TO       | TO     | TO         | TO           |
| 1560  | or_chain_107.fg.uai.cnf       | 2546   | 3076    | TO       | 903.27 | TO         | TO           |
| 1561  | or_chain_108.fg.uai.cnf       | 5458   | 6754    | TO       | TO     | TO         | TO           |
| 1562  | or_chain_113.fg.uai.cnf       | 6073   | 7265    | TO       | TO     | TO         | TO           |
| 1563  | or_chain_117.fg.uai.cnf       | 8772   | 10932   | TO       | TO     | TO         | TO           |
| 1564  | or_chain_119.fg.uai.cnf       | 4452   | 5207    | TO       | TO     | TO         | TO           |
| 1565  | or_chain_11.fg.uai.cnf        | 3784   | 4662    | TO       | TO     | TO         | TO           |
| 1566  | or_chain_124.fg.uai.cnf       | 6736   | 8064    | TO       | TO     | TO         | TO           |
| 1567  | or_chain_128.fg.uai.cnf       | 2631   | 3208    | TO       | TO     | TO         | TO           |
| 1568  | or_chain_129.fg.uai.cnf       | 4431   | 5094    | TO       | 30.80  | TO         | TO           |
| 1569  | or_chain_135.fg.uai.cnf       | 7734   | 9370    | TO       | TO     | TO         | TO           |
| 1570  | or_chain_140.fg.uai.cnf       | 5401   | 6428    | TO       | TO     | TO         | TO           |
| 1571  | or_chain_141.fg.uai.cnf       | 2801   | 3463    | TO       | TO     | TO         | TO           |
| 1572  | or_chain_151.fg.uai.cnf       | 8355   | 10279   | TO       | TO     | TO         | TO           |
| 1573  | or_chain_161.fg.uai.cnf       | 3193   | 3856    | TO       | TO     | TO         | TO           |

| S. no | Benchmark               | Vars | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|-------------------------|------|---------|----------|--------|------------|--------------|
| 1574  | or_chain_166.fg.uai.cnf | 7288 | 8800    | TO       | TO     | TO         | TO           |
| 1575  | or_chain_169.fg.uai.cnf | 4880 | 5763    | TO       | TO     | TO         | TO           |
| 1576  | or_chain_16.fg.uai.cnf  | 7216 | 8944    | TO       | TO     | TO         | TO           |
| 1577  | or_chain_172.fg.uai.cnf | 3059 | 3756    | TO       | TO     | TO         | TO           |
| 1578  | or_chain_178.fg.uai.cnf | 4230 | 5146    | TO       | TO     | TO         | TO           |
| 1579  | or_chain_188.fg.uai.cnf | 4678 | 5346    | TO       | 616.37 | TO         | TO           |
| 1580  | or_chain_190.fg.uai.cnf | 4255 | 4945    | TO       | TO     | TO         | TO           |
| 1581  | or_chain_191.fg.uai.cnf | 3892 | 4726    | TO       | TO     | TO         | TO           |
| 1582  | or_chain_195.fg.uai.cnf | 4535 | 5553    | TO       | TO     | TO         | TO           |
| 1583  | or_chain_198.fg.uai.cnf | 2572 | 3152    | TO       | 361.50 | TO         | TO           |
| 1584  | or_chain_199.fg.uai.cnf | 3898 | 4615    | TO       | TO     | TO         | TO           |
| 1585  | or_chain_202.fg.uai.cnf | 4854 | 5921    | TO       | TO     | TO         | TO           |
| 1586  | or_chain_206.fg.uai.cnf | 2984 | 3650    | TO       | TO     | TO         | TO           |
| 1587  | or_chain_208.fg.uai.cnf | 3302 | 4020    | TO       | TO     | TO         | TO           |
| 1588  | or_chain_209.fg.uai.cnf | 3481 | 4124    | TO       | 76.69  | TO         | TO           |
| 1589  | or_chain_211.fg.uai.cnf | 2929 | 3534    | TO       | TO     | TO         | TO           |
| 1590  | or_chain_216.fg.uai.cnf | 6713 | 8068    | TO       | TO     | TO         | TO           |
| 1591  | or_chain_226.fg.uai.cnf | 3064 | 3795    | TO       | TO     | TO         | TO           |
| 1592  | or_chain_22.fg.uai.cnf  | 4399 | 5373    | TO       | TO     | TO         | TO           |
| 1593  | or_chain_230.fg.uai.cnf | 5756 | 6908    | TO       | TO     | TO         | TO           |
| 1594  | or_chain_242.fg.uai.cnf | 2468 | 3068    | TO       | TO     | TO         | TO           |
| 1595  | or_chain_246.fg.uai.cnf | 3422 | 4119    | TO       | TO     | TO         | TO           |
| 1596  | or_chain_24.fg.uai.cnf  | 4896 | 6013    | TO       | TO     | TO         | TO           |
| 1597  | or_chain_25.fg.uai.cnf  | 4844 | 5754    | TO       | TO     | TO         | TO           |
| 1598  | or_chain_32.fg.uai.cnf  | 6280 | 7547    | TO       | TO     | TO         | TO           |
| 1599  | or_chain_36.fg.uai.cnf  | 3856 | 4681    | TO       | TO     | TO         | TO           |
| 1600  | or_chain_39.fg.uai.cnf  | 7460 | 9198    | TO       | TO     | TO         | TO           |
| 1601  | or_chain_40.fg.uai.cnf  | 4155 | 5000    | TO       | TO     | TO         | TO           |
| 1602  | or_chain_41.fg.uai.cnf  | 8128 | 10018   | TO       | TO     | TO         | TO           |
| 1603  | or_chain_43.fg.uai.cnf  | 7357 | 8918    | TO       | TO     | TO         | TO           |
| 1604  | or_chain_50.fg.uai.cnf  | 2696 | 3309    | TO       | TO     | TO         | TO           |
| 1605  | or_chain_60.fg.uai.cnf  | 8800 | 10781   | TO       | TO     | TO         | TO           |
| 1606  | or_chain_62.fg.uai.cnf  | 4022 | 4584    | TO       | TO     | TO         | TO           |
| 1607  | or_chain_63.fg.uai.cnf  | 3039 | 3690    | TO       | TO     | TO         | TO           |
| 1608  | or_chain_6.fg.uai.cnf   | 8009 | 9706    | TO       | TO     | TO         | TO           |

| S. no | Benchmark                  | Vars   | Clauses | SharpSAT | D4     | ApproxMCv3 | ProbsharpSAT |
|-------|----------------------------|--------|---------|----------|--------|------------|--------------|
| 1609  | or_chain_70.fg.uai.cnf     | 9355   | 11589   | TO       | TO     | TO         | TO           |
| 1610  | or_chain_73.fg.uai.cnf     | 7202   | 8825    | TO       | TO     | TO         | TO           |
| 1611  | or_chain_76.fg.uai.cnf     | 3011   | 3678    | TO       | TO     | TO         | TO           |
| 1612  | or_chain_78.fg.uai.cnf     | 2484   | 3047    | TO       | 994.59 | TO         | TO           |
| 1613  | or_chain_80.fg.uai.cnf     | 3549   | 4408    | TO       | TO     | TO         | TO           |
| 1614  | or_chain_81.fg.uai.cnf     | 5755   | 6850    | TO       | TO     | TO         | TO           |
| 1615  | or_chain_83.fg.uai.cnf     | 5148   | 6305    | TO       | TO     | TO         | TO           |
| 1616  | or_chain_87.fg.uai.cnf     | 5400   | 6611    | TO       | TO     | TO         | TO           |
| 1617  | or_chain_89.fg.uai.cnf     | 5215   | 6190    | TO       | TO     | TO         | TO           |
| 1618  | or_chain_8.fg.uai.cnf      | 5064   | 6000    | TO       | TO     | TO         | TO           |
| 1619  | or_chain_90.fg.uai.cnf     | 2065   | 2546    | TO       | 168.21 | TO         | TO           |
| 1620  | or_chain_94.fg.uai.cnf     | 3139   | 3838    | TO       | TO     | TO         | TO           |
| 1621  | Promedus_17.uai.cnf        | 4022   | 4584    | TO       | TO     | TO         | TO           |
| 1622  | Promedus_25.uai.cnf        | 4431   | 5094    | TO       | 31.08  | TO         | TO           |
| 1623  | queen5_5.3.wcsp.uai.cnf    | 395    | 1540    | TO       | TO     | TO         | TO           |
| 1624  | queen5_5.4.wcsp.uai.cnf    | 420    | 2735    | TO       | TO     | TO         | TO           |
| 1625  | random.wff.4.100.500.cnf   | 100    | 500     | TO       | TO     | TO         | TO           |
| 1626  | relational_1.uai.cnf       | 126000 | 188000  | TO       | TO     | TO         | TO           |
| 1627  | relational_4.uai.cnf       | 60800  | 70600   | TO       | TO     | TO         | TO           |
| 1628  | rovers02ac.wcsp.uai.cnf    | 11001  | 66533   | TO       | TO     | TO         | TO           |
| 1629  | satellite01ac.wcsp.uai.cnf | 15556  | 103166  | TO       | TO     | TO         | TO           |
| 1630  | satellite02ac.wcsp.uai.cnf | 55631  | 404105  | TO       | TO     | TO         | TO           |
| 1631  | scen06.wcsp.uai.cnf        | 6454   | 2022549 | TO       | TO     | TO         | TO           |
| 1632  | scen07.wcsp.uai.cnf        | 13306  | 4273142 | TO       | TO     | TO         | TO           |
| 1633  | Segmentation_11.uai.cnf    | 2763   | 3152    | TO       | TO     | TO         | TO           |
| 1634  | Segmentation_12.uai.cnf    | 2782   | 3175    | TO       | TO     | TO         | TO           |
| 1635  | Segmentation_13.uai.cnf    | 2881   | 3293    | TO       | TO     | TO         | TO           |
| 1636  | Segmentation_14.uai.cnf    | 2761   | 3154    | TO       | TO     | TO         | TO           |
| 1637  | Segmentation_15.uai.cnf    | 2821   | 3220    | TO       | TO     | TO         | TO           |
| 1638  | Segmentation_16.uai.cnf    | 2823   | 3225    | TO       | TO     | TO         | TO           |
| 1639  | Segmentation_17.uai.cnf    | 150530 | 322092  | TO       | TO     | TO         | TO           |
| 1640  | Segmentation_18.uai.cnf    | 2881   | 3293    | TO       | TO     | TO         | TO           |
| 1641  | Segmentation_19.uai.cnf    | 2784   | 3180    | TO       | TO     | TO         | TO           |
| 1642  | Segmentation_20.uai.cnf    | 156129 | 333859  | TO       | TO     | TO         | TO           |
| 1643  | wcsp_11.uai.cnf            | 11028  | 27894   | TO       | TO     | TO         | TO           |

| S. no | Benchmark       | Vars  | Clauses | SharpSAT | D4 | ApproxMCv3 | ProbsharpSAT |
|-------|-----------------|-------|---------|----------|----|------------|--------------|
| 1644  | wcsp_12.uai.cnf | 12348 | 38010   | TO       | TO | TO         | TO           |
| 1645  | wcsp_13.uai.cnf | 14717 | 72101   | TO       | TO | TO         | TO           |
| 1646  | wcsp_14.uai.cnf | 38585 | 166958  | TO       | TO | TO         | TO           |
| 1647  | wcsp_15.uai.cnf | 1972  | 12651   | TO       | TO | TO         | TO           |
| 1648  | wcsp_16.uai.cnf | 11482 | 2857369 | TO       | TO | TO         | TO           |
| 1649  | wcsp_17.uai.cnf | 19654 | 4978696 | TO       | TO | TO         | TO           |
| 1650  | wcsp_18.uai.cnf | 36088 | 349480  | TO       | TO | TO         | TO           |