| Nr CPU Time (s) Number of variables si Number of clauses  1 37374 8 3 2010 11693 11893 119 | 1 3173.74 83 2010 11953 UJASATISHABLE 2 1095500 SATISHABLE 1 1256-7 1096 5 1838 93713 10295400 SATISHABLE 1 1256-7 1190.5 SATISHA  |                                  |              | Famil            | y: Scheduling       |                   |               |         |                 |                    |               |                  |             |
|--|---|----------------------------------|--------------|------------------|---------------------|-------------------|---------------|---------|-----------------|--------------------|---------------|------------------|-------------|
| 109.65   | 2 1908.65 1838 93713 10228409 SATISFABLE 3 17890.3 18466 2282525 1743751 INDETERMINATE 4 1449.97 310 14786 14483 UNSATISFABLE 6 0.005 11 221 1094 UNSATISFABLE 7 17900.8 22977 49869 284805 INDETERMINATE 8 2854.7 77 114774 69704 SATISFABLE 9 17983.2 694 1016 27862 INDETERMINATE 10 17989.1 4443 22266 S18289 INDETERMINATE 11 56.88 197 145943 62864 SATISFABLE 12 17990.8 4377 28830 320272 INDETERMINATE 13 17990.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3860 14187 SATISFABLE 15 630.88 147 6397 60575 UNSATISFABLE 16 1792.9 2306 37028 187771 INDETERMINATE 17 646636 1187 14590 48976 SATISFABLE 17 646636 1187 14590 48976 SATISFABLE 17 646638 1187 14590 48976 SATISFABLE 17 646638 1187 14590 48976 SATISFABLE 18 6792.9 2306 37028 187771 INDETERMINATE 19 646638 1187 14590 48976 SATISFABLE 19 646638 1187 14590 14887 SATISFABLE 2000000000000000000000000000000000000   | Nr                               | CPU Time (s) | Memory Used (MB) | Number of variables | Number of clauses | OUT           | CPU Tim | e (s), Numb     | er of varia        | ables și N    | umber of c       | clauses     |
| 2 109.65 1838 93713 1029460 SATISFABLE 1747971 NIDETERMINATE 4 1749.63 112446 22525 17473751 NIDETERMINATE 5 25.27 38 14400 63874 UINSATISFABLE 6 0.005 11 221 1084 UINSATISFABLE 7 17793.8 2977 48669 28605 SATISFABLE 7 17793.8 2977 48669 28605 SATISFABLE 9 177893.2 894 1015 21642 NIDETERMINATE 8 10 177898.1 4443 26286 319289 NIDETERMINATE 11 58.88 187 145943 625464 SATISFABLE 11 58.88 187 145943 625464 SATISFABLE 11 158.88 187 145943 625464 SATISFABLE 11 0.005 12 12 17994.1 4122 53844 270141 NIDETERMINATE 13 17799.8 4377 28830 320272 NIDETERMINATE 14 0.005 12 3800 14187 SATISFABLE 15 639.08 147 6397 60575 UINSATISFABLE 15 639.08 147 6397 60575 UINSATISFABLE 16 17782.9 2306 37028 187771 NIDETERMINATE 16 17782.9 2306 37028 187771 NIDETERMINATE 17 646686 1187 14590 48075 SATISFABLE 17 646686 1187 MISCONDAL 187771 NIDETERMINATE 17 646686 MISCONDAL 187771 NIDETERMINATE  | 2 100.66 1388 93713 10284099 SATISFIABLE 3 17900.3 12646 226255 11743761 INDETERMINATE 4 1436.97 310 14756 141883 UNSATISFIABLE 5 25.27 38 14400 63874 UNSATISFIABLE 6 0.005 11 221 1084 UNSATISFIABLE 7 17993.6 2977 49899 244905 INDETERMINATE 8 2289.47 71 14174 66704 SATISFIABLE 10 17989.1 4443 22628 319289 INDETERMINATE 10 17989.1 4443 22628 319289 INDETERMINATE 11 15 688 187 145943 62745 NDETERMINATE 12 17904.1 4122 53944 270141 INDETERMINATE 13 17909.8 4377 28830 320272 INDETERMINATE 14 0.08 12 3980 1417 6397 60075 UNSATISFIABLE 15 683.08 147 6397 60075 UNSATISFIABLE 16 1792.2 2300 37028 187771 INDETERMINATE 17 646539 1187 14500 48075 SATISFIABLE 17 646539 1187 14500 48075 SATISFIABLE 18 2000000   | 1                                | 3173,74      | 83               | 2010                | 11953             | UNSATISFIABLE |         | - Nu            | mher of variable   | e - Numb      | ar of clauses    |             |
| 3 17990,3 12090 22020 114797 114983 UNSATISFIABLE 5 25.27 38 144000 6:3874 UNSATISFIABLE 6 0.0056 11 221 1094 UNSATISFIABLE 7 17993,6 2977 49869 264805 BNEETERMINATE 7 17993,6 2977 49869 264805 BNEETERMINATE 8 285.47 71 14174 66704 SATISFIABLE 9 17788.12 894 1015 21942 NOBETERMINATE 10 17788.1 4443 26286 31928 NOBETERMINATE 11 58.88 187 145943 625454 SATISFIABLE 12 17994,1 4122 53644 271014 NDETERMINATE 13 17990,8 4377 28830 302072 NDETERMINATE 14 0.00 12 3890 14187 SATISFIABLE 15 639.08 147 6397 60575 UNSATISFIABLE 16 17992,9 2300 37028 187771 NDETERMINATE 16 17992,9 2300 37028 187771 NDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE 17 646636 1187 14560 48075 SATISFIABLE 17 646636 1187 14660 48075 SATISFIAB | 1,000   | 2                                | 109,65       | 1838             | 93713               | 10295409          | SATISFIABLE   |         | _ 140           | iliber of variable | — INGINID     | er or clauses    |             |
| S  | \$ 25.27 38 14400 63874 UNSATISFIABLE 0.005 11 221 1094 UNSATISFIABLE 17 1793.6 2077 40809 264805 INDETERMINATE 17 1793.6 2077 40809 264805 INDETERMINATE 17 1793.6 2077 440809 264805 INDETERMINATE 17 1798.2 894 1015 21642 INDETERMINATE 10 1709.1 4443 26288 310280 INDETERMINATE 11 1799.1 4443 26288 310280 INDETERMINATE 11 1799.1 4422 55844 270141 INDETERMINATE 11 1799.1 4422 55844 270141 INDETERMINATE 14 14 0.06 12 3800 14167 SAITSFABLE 16 1798.2 2306 37028 187771 INDETERMINATE 16 1798.2 2306 37028 187771 INDETERMINATE 16 1798.2 2306 37028 187771 INDETERMINATE 17 14560 48075 SAITSFABLE 17 14560 SAIT | 3                                | 17990,3      | 12646            | 282525              | 1743751           | INDETERMINATE | 1,25E+7 |                 |                    |               |                  |             |
| 6 0.005 11 221 1084 UNSATISFIABLE 7 17993,5 2977 49889 284905 INDETERMINATE 8 285.47 71 14174 66704 SATISFIABLE 9 17980,2 894 1015 21642 INDETERMINATE 10 17980,1 4443 28286 319298 INDETERMINATE 11 58.88 187 145943 625454 SATISFIABLE 12 17994,1 4122 53844 270141 INDETERMINATE 13 17990,8 4377 28830 330272 INDETERMINATE 14 0.06 12 3880 14187 SATISFIABLE 15 639.08 147 6337 60575 UNSATISFIABLE 16 17992,9 2306 37028 187771 INDETERMINATE 17 646536 1187 14560 48075 SATISFIABLE 18 17992,9 SATISFIABLE 19 CPU Time (s) Memory Used (MB)  - CPU Time (s) Memory Used (MB)   | 1   | 4                                | 1436,97      | 310              | 14756               | 141683            | UNSATISFIABLE |         |                 |                    |               |                  |             |
| 7 17993,6 2977 49869 284805 INDETERMINATE 8 265,47 71 14174 66704 SATISFIABLE 9 17983,2 894 1015 21642 INDETERMINATE 10 17989,1 4443 22386 319299 INDETERMINATE 11 58,88 187 145943 62544 SATISFIABLE 12 17994,1 4122 553844 270141 INDETERMINATE 13 17990,8 4377 28830 32272 INDETERMINATE 14 0.06 12 3890 14167 SATISFIABLE 15 639,68 147 6397 60575 UNSATISFIABLE 16 17992,9 2306 37028 18771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) Şi Memory Used (MB)  = CPU Time (s) — Memory Used (MB)  400000   | 7 17993.6 2977 48989 29405 INDETERMINATE 8 285.47 71 14174 66704 SATISFIABLE 9 17983.2 894 1015 21042 INDETERMINATE 10 17989.1 4443 20286 319239 INDETERMINATE 11 58.88 197 145043 62544 ASTISFIABLE 12 17094.1 4122 58844 270141 INDETERMINATE 13 17998.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3890 14187 SATISFIABLE 15 639.08 147 6387 60575 UNSATISFIABLE 16 17982.9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48975 SATISFIABLE 200000  — CPU Time (s) — Memory Used (MB)  — CPU Time (s) — Memory Used (MB)  | 5                                | 25,27        | 38               | 14400               | 63874             | UNSATISFIABLE | 1,00E+7 | Λ               |                    |               |                  |             |
| 8 285.47 71 14174 66704 SATISFIABLE 9 17983.2 894 1015 21642 INDETERMINATE 10 17989.1 4443 26286 319289 INDETERMINATE 11 58.88 187 145943 662454 SATISFIABLE 12 17994.1 4122 55844 270141 INDETERMINATE 13 17990.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3890 14187 SATISFIABLE 15 639.08 147 6397 60575 UNSATISFIABLE 16 17992.9 2306 37028 187771 INDETERMINATE 17 646638 1187 14560 48075 SATISFIABLE 17 646638 1187 14560 48075 SATISFIABLE  CPU Time (s) \$i Memory Used (MB)  - CPU Time (s) - Memory Used (MB)   | 8   | 6                                | 0,005        | 11               | 221                 | 1084              | UNSATISFIABLE |         | /\              |                    |               |                  |             |
| 9  | 9 17983.2 894 1015 21642 INDETERMINATE 10 17980,1 4443 28286 31828 INDETERMINATE 11 58.88 187 149943 62949 SATISFIABLE 12 17994.1 4122 53944 270141 INDETERMINATE 13 17990.8 4377 28830 330272 INDETERMINATE 14 0.06 12 3890 14187 SATISFIABLE 15 639.08 147 6397 66055 UNSATISFIABLE 16 17992.9 2306 37028 187771 INDETERMINATE 17 646030 1187 14560 48075 SATISFIABLE 17 646030 1187 Memory Used (MB)  — CPU Time (s) — Memory Used (MB)  — CPU Time (s) — Memory Used (MB)   |                                  |              |                  | 49869               |                   |               | 7,50E+6 | /\              |                    |               |                  |             |
| 10 17989.1 4443 26286 319289 INDETERMINATE 11 58.88 187 145943 625454 SATISFIABLE 12 17994.1 4122 53844 270141 INDETERMINATE 13 17990.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3890 14187 SATISFIABLE 15 639.08 147 6397 60575 UNSATISFIABLE 16 17982.9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  | 10  | 8                                | 285,47       | 71               | 14174               | 66704             | SATISFIABLE   |         | / \             |                    |               |                  |             |
| 11   | 11  | 9                                | 17983,2      | 894              |                     | 21642             |               | 5,00E+6 | / \             |                    |               |                  |             |
| 12 17994.1 4122 53844 270141 INDETERMINATE 13 17990.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3890 14187 SAITSHABLE 15 639.08 147 6397 60575 UNSATISFIABLE 16 17992.9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  | 12   17994   4122   53844   270141   INDETERMINATE   13   17990.8   4377   28890   320272   INDETERMINATE   14   0.06   12   38890   14187   SATISFIABLE   15   639.08   147   6397   60575   UNSATISFIABLE   17   646636   1187   14560   48075   SATISFIABLE   17   646636   1187   14560   48075   SATISFIABLE   17   646636   1187   14560   48075   SATISFIABLE   17   17   17   17   17   17   17   1   | 10                               | 17989,1      | 4443             | 26286               | 319289            | INDETERMINATE |         | / \             |                    |               |                  |             |
| 13 17990.8 4377 28830 320272 INDETERMINATE 14 0.06 12 3890 14187 SATISFIABLE 15 639.08 147 6397 60575 UNSATISFIABLE 16 17992.9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) \$\frac{1}{2}\$ Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  | 13  |                                  |              |                  |                     |                   | SATISFIABLE   | 2,50E+6 | 1               |                    |               |                  |             |
| 14   | 14  |                                  |              |                  |                     |                   |               | /       |                 |                    |               |                  |             |
| 16 17992,9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  600000  400000   | 16 17992.9 2306 37028 187771 INDETERMINATE 17 646036 1167 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  — CPU Time (s) — Memory Used (MB)  300000  200000  | 13                               | 17990,8      | 4377             | 28830               | 320272            | INDETERMINATE | 0       |                 |                    |               | $\overline{}$    |             |
| 16 17992,9 2306 37028 187771 INDETERMINATE 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  600000  400000   | 16 17992.9 2306 37028 187771 INDETERMINATE 17 646036 1167 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  — CPU Time (s) — Memory Used (MB)  300000  200000  |                                  |              |                  |                     |                   |               | 10°     | 26, 30, 26 st.  | J 2005 236         | "ky "835 "80; | (8,88 agh, ago,8 | 000 300 300 |
| 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  600000  400000  | 17 646636 1187 14560 48075 SATISFIABLE  CPU Time (s) şi Memory Used (MB)  — CPU Time (s) — Memory Used (MB)  300000  300000   | 15                               | 639,08       | 147              | 6397                | 60575             | UNSATISFIABLE | 3112    | 102 102 1425 IV | 0. 40, 30          | 700 700       | 2, 10, 10,       | 635 1793 6A |
| CPU Time (s) şi Memory Used (MB)  CPU Time (s) Memory Used (MB)  600000  400000  | CPU Time (s) şi Memory Used (MB)  - CPU Time (s) - Memory Used (MB)  500000  500000  5000000  | 16                               | 17992,9      | 2306             | 37028               | 187771            | INDETERMINATE |         |                 |                    |               |                  |             |
| ### CPU Time (s)   | CPU Time (s) Memory Used (MB)  300000  400000  400000   | 17                               | 646636       | 1187             | 14560               | 48075             | SATISFIABLE   |         |                 |                    |               |                  |             |
| 40000  | 20000   | CPU Tim                          |              |                  | (a) — Managalland ( | A(D)              |               |         |                 |                    |               |                  |             |
| 400000   | 20000   |                                  |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  | 200000  | 800000 ——                        |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  | 200000  | 800000 ——                        |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  | 200000  | 800000 ——                        |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  | 200000  | 800000 ——                        |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
| 200000   |   | 800000 ——                        |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
| 200000   |   | 800000 —                         |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —                         |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —                         |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —                         |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —<br>600000 —<br>400000 — |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —<br>600000 —<br>400000 — |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  |   | 800000 —<br>600000 —<br>400000 — |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |
|  | _   | 800000 —<br>600000 —<br>400000 — |              |                  | e (s) Memory Used ( | MB)               |               |         |                 |                    |               |                  |             |