

Results for MINSUM_3 (mTSP)

Keld Helsgaun, November 19, 2017

| Instance | LKH-3 |
|-----------|----------|
| a280 | 2645 |
| ali535 | 203044 |
| att48 | 11014 |
| att532 | 28259 |
| bayg29 | 1718 |
| bays29 | 2139 |
| berlin52 | 7735 |
| bier127 | 119163 |
| brazil58 | 26538 |
| brd14051 | 469858 |
| brg180 | 1980 |
| burma14 | 3547 |
| ch130 | 6296 |
| ch150 | 6571 |
| d198 | 20351 |
| d493 | 42623 |
| d657 | 54303 |
| d1291 | 55970 |
| d1655 | 67987 |
| d2103 | 84964 |
| d15112 | 1582808 |
| d18512 | 647847 |
| dantzig42 | 703 |
| dsj1000 | 18688950 |
| eil51 | 443 |
| eil76 | 555 |
| eil101 | 646 |
| fl417 | 11941 |
| fl1400 | 21015 |
| fl1577 | 22317 |
| fl3795 | 30037 |
| fnl4461 | 183259 |
| fri26 | 1214 |
| gil262 | 2441 |
| gr17 | 2322 |
| gr21 | 3022 |
| gr24 | 1523 |
| gr48 | 5333 |
| gr96 | 57922 |
| gr120 | 7196 |
| gr137 | 73410 |

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|----------|-----------|
| gr202 | 45838 |
| gr229 | 137303 |
| gr431 | 177092 |
| gr666 | 300558 |
| hk48 | 12107 |
| kroA100 | 22059 |
| kroB100 | 22472 |
| kroC100 | 21212 |
| kroD100 | 21796 |
| kroE100 | 22348 |
| kroA150 | 26943 |
| kroB150 | 26476 |
| kroA200 | 29538 |
| kroB200 | 29767 |
| lin105 | 14741 |
| lin318 | 42391 |
| linhp318 | 41707 |
| nrw1379 | 56847 |
| p654 | 36890 |
| pa561 | 2797 |
| pcb442 | 50966 |
| pcb1173 | 57133 |
| pcb3038 | 138675 |
| pla7397 | 23317022 |
| pla33810 | 66445846 |
| pla85900 | 142842479 |
| pr76 | 111056 |
| pr107 | 44869 |
| pr124 | 59979 |
| pr136 | 98629 |
| pr144 | 59444 |
| pr152 | 75893 |
| pr226 | 84109 |
| pr264 | 49704 |
| pr299 | 48789 |
| pr439 | 108044 |
| pr1002 | 264040 |
| pr2392 | 380379 |
| rat99 | 1269 |
| rat195 | 2381 |
| rat575 | 6802 |
| rat783 | 8844 |
| rd100 | 8012 |
| rd400 | 15328 |
| rl1304 | 253840 |
| rl1323 | 270769 |

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|-----------|----------|
| rl1889 | 317146 |
| rl5915 | 567177 |
| rl5934 | 557854 |
| rl11849 | 926778 |
| si175 | 21717 |
| si535 | 48898 |
| si1032 | 92898 |
| st70 | 689 |
| swiss42 | 1333 |
| ts225 | 128643 |
| tsp225 | 3988 |
| u159 | 43846 |
| u574 | 36983 |
| u724 | 42506 |
| u1060 | 224590 |
| u1432 | 153248 |
| u1817 | 57611 |
| u2152 | 64451 |
| u2319 | 234555 |
| ulysses16 | 7112 |
| ulysses22 | 7259 |
| usa13509 | 20115848 |
| vm1084 | 240345 |
| vm1748 | 339557 |