

Results for TSPLIB instances (PTSP)

Keld Helsgaun, June 29, 2024

| Instance | p | BKS | LKH-3 | Gap (%) |
|----------|------|-----------------|------------------|---------------|
| eil51 | 0.10 | 129.42 | 129.24 | -0.14 |
| | 0.50 | 310.75 | 310.75 | 0.00 |
| | 0.90 | 407.92 | 407.92 | 0.00 |
| kroA100 | 0.10 | 9044.97 | 9034.92 | -0.11 |
| | 0.50 | 16569.70 | 16569.05 | 0.00 |
| | 0.90 | 20508.77 | 20508.78 | 0.00 |
| eil101 | 0.10 | 197.37 | 196.81 | -0.28 |
| | 0.20 | 283.6 | 282.24 | -0.48 |
| | 0.30 | 349.02 | 346.78 | -0.64 |
| | 0.40 | 404.7 | 401.52 | -0.79 |
| | 0.50 | 455.65 | 450.27 | -1.18 |
| | 0.90 | 601.50 | 601.50 | 0.00 |
| | | | | |
| ch150 | 0.10 | 2479 | 2479.85 | 0.03 |
| | 0.50 | 5004 | 5003.09 | -0.02 |
| | 0.90 | 692.01 | 692.01 | 0.00 |
| d198 | 0.10 | 7436.9 | 7437.51 | 0.01 |
| | 0.20 | 9312.1 | 9312.98 | 0.01 |
| | 0.30 | 10538.9 | 10531.58 | -0.07 |
| | 0.40 | 11555.7 | 11534.15 | -0.19 |
| | 0.50 | 12417 | 12410.41 | -0.05 |
| | 0.90 | 15210.40 | 15204.62 | -0.04 |
| | | | | |
| pr439 | 0.10 | 49926.89 | 47073.36 | -5.72 |
| | 0.50 | 88728.37 | 87086.66 | -1.85 |
| | 0.90 | 104584.67 | 104327.44 | -0.25 |
| att532 | 0.05 | 25483.53 | 25483.09 | 0.00 |
| | 0.10 | 33663.22 | 33662.41 | 0.00 |
| | 0.20 | 44653.37 | 44646.07 | -0.02 |
| | 0.30 | 53846.0 | 53007.41 | -1.56 |
| | 0.40 | 61175.8 | 59862.61 | -2.15 |
| | 0.50 | 67538.2 | 65866.52 | -2.48 |
| | | | | |
| p654 | 0.10 | 19663.66 | 19483.75 | -0.91 |
| | 0.50 | 28383.71 | 28032.28 | -1.24 |
| | 0.90 | 33631.26 | 33504.02 | -0.38 |
| rat783 | 0.10 | 3235.55 | 3230.43 | -0.16 |
| | 0.20 | 4534.06 | 4525.25 | -0.19 |
| | 0.30 | 5579.4 | 5455.48 | -2.22 |
| | 0.40 | 6336.3 | 6208.26 | -2.02 |
| | 0.50 | 6941.2 | 6830.30 | -1.60 |
| | 0.90 | 8592.21 | 8516.59 | -0.88 |
| | | | | |
| pr1002 | 0.10 | 110764.63 | 99097.53 | -10.53 |
| | 0.50 | 207210.53 | 197935.37 | -4.48 |
| | 0.90 | 254365.75 | 250095.76 | -1.68 |

| | | | | |
|--------|------|----------|-----------------|--------------|
| f11400 | 0.10 | 9689.55 | 9325.27 | -3.76 |
| | 0.50 | 16416.11 | 15844.27 | -3.48 |
| | 0.90 | 19679.24 | 19466.48 | -1.08 |