

# Laufzeitmessung des Quicksort-Algorithmus

Pentium DualCore T4200 @ 2.00 GHZ (Notebook)

Vista 64 Bit

4 GB Arbeitsspeicher

1 MB L2-Cache

200 MHZ FSB

System: VBScript auf Notebook

Worst Case: komplett unsortiertes Feld mit Pivotelement rechts

| <u>Feldgröße n</u> | <u>Anzahl der Vergleiche</u> | <u>Gemessene Laufzeit</u> |
|--------------------|------------------------------|---------------------------|
| 10000              | 39651                        | 00:00:00                  |
| 20000              | 85461                        | 00:00:00                  |
| 30000              | 130036                       | 00:00:00                  |
| 40000              | 182217                       | 00:00:00                  |
| 50000              | 230110                       | 00:00:01                  |
| 60000              | 274786                       | 00:00:01                  |
| 70000              | 326553                       | 00:00:01                  |
| 80000              | 377636                       | 00:00:01                  |
| 90000              | 428391                       | 00:00:01                  |
| 100000             | 475778                       | 00:00:02                  |
| 200000             | 1002473                      | 00:00:04                  |
| 300000             | 1574651                      | 00:00:04                  |
| 400000             | 2113811                      | 00:00:07                  |
| 500000             | 2681317                      | 00:00:08                  |
| 600000             | 3309527                      | 00:00:10                  |
| 700000             | 3907434                      | 00:00:12                  |
| 800000             | 4520946                      | 00:00:13                  |
| 900000             | 5120511                      | 00:00:15                  |
| 1000000            | 5751066                      | 00:00:17                  |
| 2000000            | 12047916                     | 00:00:36                  |
| 3000000            | 18834835                     | 00:00:55                  |
| 4000000            | 26051531                     | 00:01:13                  |
| 5000000            | 33018511                     | 00:01:36                  |
| 6000000            | 40190321                     | 00:01:54                  |
| 7000000            | 47587247                     | 00:02:18                  |
| 8000000            | 55051441                     | 00:02:45                  |
| 9000000            | 62563857                     | 00:02:53                  |

