# Анализ производительности

Задача решить систему нелинейный уравнений. Количество неизвестных переменных 3000.

Однопоточный режим: 3.33

Многопоточный режим:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| static | | | dynamic | | | guided | | |
| threads | chank size | time | threads | chank size | time | threads | chank size | time |
| 2 | 100 | 1.80073 | 2 | 100 | 1.65641 | 2 | 100 | 1.66992 |
| 2 | 90 | 1.70643 | 2 | 90 | 1.7163 | 2 | 90 | 1.65812 |
| 2 | 80 | 1.69282 | 2 | 80 | 1.67529 | 2 | 80 | 1.66353 |
| 2 | 70 | 1.71315 | 2 | 70 | 1.68073 | 2 | 70 | 1.65372 |
| 2 | 60 | 1.66903 | 2 | 60 | 1.65399 | 2 | 60 | 1.65519 |
| 2 | 50 | 1.66915 | 2 | 50 | 1.65334 | 2 | 50 | 1.65827 |
| 2 | 40 | 1.69757 | 2 | 40 | 1.67852 | 2 | 40 | 1.65587 |
| 2 | 30 | 1.67823 | 2 | 30 | 1.67079 | 2 | 30 | 1.6903 |
| 2 | 20 | 1.68933 | 2 | 20 | 1.66333 | 2 | 20 | 1.65475 |
| 2 | 10 | 1.67331 | 2 | 10 | 1.67829 | 2 | 10 | 1.65797 |
|  |  |  |  |  |  |  |  |  |
| 3 | 100 | 1.17573 | 3 | 100 | 1.19044 | 3 | 100 | 1.20382 |
| 3 | 90 | 1.19229 | 3 | 90 | 1.19245 | 3 | 90 | 1.21412 |
| 3 | 80 | 1.21884 | 3 | 80 | 1.2151 | 3 | 80 | 1.19905 |
| 3 | 70 | 1.22371 | 3 | 70 | 1.21079 | 3 | 70 | 1.1812 |
| 3 | 60 | 1.19488 | 3 | 60 | 1.20423 | 3 | 60 | 1.18253 |
| 3 | 50 | 1.18399 | 3 | 50 | 1.17945 | 3 | 50 | 1.1854 |
| 3 | 40 | 1.18441 | 3 | 40 | 1.1721 | 3 | 40 | 1.34805 |
| 3 | 30 | 1.19779 | 3 | 30 | 1.19699 | 3 | 30 | 1.41988 |
| 3 | 20 | 1.18134 | 3 | 20 | 1.20149 | 3 | 20 | 1.18866 |
| 3 | 10 | 1.2056 | 3 | 10 | 1.22238 | 3 | 10 | 1.22444 |
|  |  |  |  |  |  |  |  |  |
| 4 | 100 | 1.00138 | 4 | 100 | 0.978058 | 4 | 100 | 0.993742 |
| 4 | 90 | 1.01416 | 4 | 90 | 0.981115 | 4 | 90 | 0.952136 |
| 4 | 80 | 0.978517 | 4 | 80 | 0.973085 | 4 | 80 | 0.947285 |
| 4 | 70 | 0.955419 | 4 | 70 | 0.937482 | 4 | 70 | 0.953571 |
| 4 | 60 | 0.951001 | 4 | 60 | 0.951545 | 4 | 60 | 0.952137 |
| 4 | 50 | 0.958372 | 4 | 50 | 0.951718 | 4 | 50 | 0.963217 |
| 4 | 40 | 0.961871 | 4 | 40 | 0.93795 | 4 | 40 | 0.960722 |
| 4 | 30 | 0.940036 | 4 | 30 | 0.928818 | 4 | 30 | 0.94886 |
| 4 | 20 | 0.972191 | 4 | 20 | 0.941228 | 4 | 20 | 0.962175 |
| 4 | 10 | 0.975226 | 4 | 10 | 0.955296 | 4 | 10 | 0.955997 |