Work time statistics for Puasson problem in 2.6GHz one thread processor. x32 programm compilation.

Fred Gustavson matrix multiplyer algorithm.

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| --- | --- | --- | --- |
| Dimension of rectangle Puasson problem | Direct method for banded matrix  \*)  Hours:minute:second | Classical aglomeration algebraic multigrid method base the standart interpolation  \*\*)  Hours:minute:second | Congruate Gradient  1e-12  \*)  Hours:minute:second |
| 100x100 | 0:00:00 | 0:00:01 | 0:00:01 |
| 200x200 | 0:00:12 | 0:00:02 | 0:00:03 |
| 253x253 | 0:00:30 | 0:00:03 | 0:00:04 |
| 400x400 | 0:03:09 | 0:00:08 | Out of Memory |
| 800x800 | Out of memory | 0:00:49 | Out of Memory |
| 1000 x 1000 | Out of memory | 00:00:29  Analog:  Cusp 58s  ViennaCL 42s  CULA 2s  GAMPACK 0.8s  Amg1r5 13s | Out of memory |
| 1300 x 1300  1.7 million nodes | Out of memory | 00:03:49 | Out of memory |
| 40 x 40 x 40 | Out of memory | 0:00:12 | Out of memory |
| 60 x 60 x 60  216 K nodes | Out of memory | 00:00:21 | Out of memory |
| 80 x 80 x 80  512 K nodes | Out of memory | 00:01:09 | Out of memory |
| 100 x 100 x 100  1 million nodes | Out of memory | 00:04:45  500 Mb | Out of memory |
| 120 x 120 x 120  1.7 million nodes | Out of memory | 00:11:04  1.8Gb | Out of memory |

\*) Delphi xe8 x32 compiller. Out of memory bag compiller.

\*\*) Visual Studio 2013 Ultimate x32 compiller. При нумерации неизвестных соответствующей минимальной ширине ленты. Синим новые данные, черным старые данные которые еще не проверялись. Версия кода 0.10