ΑΡΧΙΚΟ - STEPS=500

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes) | secs |  |  |  |  |  |  |
| 1\*4=4 |  | 0.030095 | 0.079169 | 0.313272 | 1.241200 |  |  |
| 1\*8=8 |  | 0.010605 | 0.036215 | 0.138634 | 0.862740 |  |  |

MPI ΧΩΡΙΣ ΣΥΓΚΛΙΣΗ - STEPS=500

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes) | secs |  |  |  |  |  |  |
| 1\*1=1 |  | 0.022245 | 0.090111 | 0.359075 | 1.435031 | 5.844100 | 23.602943 |
| 1\*4=4 |  | 0.006891 | 0.036816 | 0.093107 | 0.364705 | 1.444614 | 5.920362 |
| 2\*8=16 |  | 0.038060 | 0.042603 | 0.054048 | 0.118578 | 0.396293 | 1.528421 |
| 8\*8=64 |  | 0.123787 | 0.134611 | 0.147836 | 0.197283 | 0.243921 | 0.490659 |
| 16\*8=128 |  | 0.118809 | 0.127786 | 0.139262 | 0.170528 | 0.225200 | 0.301399 |
| 20\*8=160 |  | 0.112337 | 0.124632 | 0.136483 | 0.160409 | 0.193911 | 0.268260 |

MPI ME ΣΥΓΚΛΙΣΗ - STEPS=500

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes) | secs |  |  |  |  |  |  |
| 1\*1=1 |  | 0.034856 | 0.139161 | 0.557995 | 2.291293 | 9.166373 | 40.227158 |
| 1\*4=4 |  | 0.010164 | 0.037753 | 0.112361 | 0.562737 | 2.270645 | 9.146065 |
| 2\*8=16 |  | 0.048852 | 0.048525 | 0.064811 | 0.130523 | 0.708571 | 2.316306 |
| 8\*8=64 |  | 0.142795 | 0.152730 | 0.166977 | 0.231657 | 0.300463 | 0.778056 |
| 16\*8=128 |  | 0.138840 | 0.145830 | 0.151915 | 0.198445 | 0.234002 | 0.357126 |
| 20\*8=160 |  | 0.137792 | 0.144706 | 0.147050 | 0.188822 | 0.207309 | 0.282136 |

ΥΒΡΙΔΙΚΟ ME ΣΥΓΚΛΙΣΗ - STEPS=500 - threads=2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes\*threads) | secs |  |  |  |  |  |  |
| 1\*2\*2=4 |  | 0.011626 | 0.070043 | 0.278901 | 1.115964 | 4.702976 | 18.251842 |
| 2\*4\*2=16 |  | 0.052670 | 0.061256 | 0.083259 | 0.298105 | 1.139310 | 4.580791 |
| 8\*4\*2=64 |  | 0.118191 | 0.130273 | 0.176172 | 0.241560 | 0.364736 | 1.226279 |
| 16\*4\*2=128 |  | 0.147519 | 0.155023 | 0.174350 | 0.204109 | 0.246452 | 0.655885 |
| 20\*4\*2=160 |  | 0.141490 | 0.145349 | 0.170564 | 0.191337 | 0.229365 | 0.520941 |

ΥΒΡΙΔΙΚΟ ME ΣΥΓΚΛΙΣΗ - STEPS=500 - threads=4

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes\*threads) | secs |  |  |  |  |  |  |
| 1\*1\*4=4 |  | 0.034848 | 0.139169 | 0.578157 | 2.233429 | 9.292918 | 36.562419 |
| 2\*2\*4=16 |  | 0.059055 | 0.073747 | 0.152783 | 0.573779 | 2.269710 | 9.210040 |
| 8\*2\*4=64 |  | 0.126406 | 0.141069 | 0.180882 | 0.323285 | 0.598696 | 2.309775 |
| 16\*2\*4=128 |  | 0.149478 | 0.169000 | 0.181380 | 0.234546 | 0.382742 | 1.201840 |
| 20\*2\*4=160 |  | 0.155643 | 0.156028 | 0.171651 | 0.214421 | 0.277102 | 0.988184 |

ΥΒΡΙΔΙΚΟ ME ΣΥΓΚΛΙΣΗ - STEPS=500 - threads=8

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SIZE** | 80x64 | 160x128 | 320x256 | 640x512 | 1280x1024 | 2560x2048 |
| **TASKS**  (nodes\*processes\*threads) | secs |  |  |  |  |  |  |
| 2\*1\*8=16 |  | 0.080187 | 0.089987 | 0.279321 | 1.235054 | 4.640821 | 18.378874 |
| 8\*1\*8=64 |  | 0.162742 | 0.170949 | 0.249725 | 0.351533 | 1.162352 | 4.962545 |
| 16\*1\*8=128 |  | 0.157426 | 0.185777 | 0.210993 | 0.249094 | 0.615574 | 2.390582 |
| 20\*1\*8=160 |  | 0.181147 | 0.202481 | 0.204015 | 0.227911 | 0.593471 | 1.890537 |