| 80x64 | (1) 1 node/ task 1/ threads 1 | (4) 1 node/ task 2/ threads 2 | (4) 1 node/ task 2/ threads 4 | (4) 1 node/ task 1/ threads 4 | (9* → 8) 2 node/ task 8/ threads 2 | (9* → 8) 2 node/ task 8/ threads 4 | (9* → 8) 2 node/ task 8/ threads 8 | (16) 2 node/ task 8/ threads 2 | (16) 2 node/ task 8/ threads 4 |
|---|---|---|---|---|---|---|---|---|---|
| min | 0.022988 | 0.011435 | 0.016254 | 0.021342 | 1.607565 | 4.753845 | 0.066384 | 1.629518 | 1.658860 |
| max | 0.022988 | 0.011435 | 0.016256 | 0.021342 | 1.617349 | 4.757120 | 0.066797 | 1.639948 | 1.659096 |
| avg | 0.022988 | 0.011435 | 0.016255 | 0.021342 | 1.614851 | 4.755168 | 0.066621 | 1.638212 | 1.658971 |

| 80x64 | (16) 2 node/ task 4/ threads 4 | (16) 2 node/ task 2/ threads 8 | (25* → 20) 4 node/ task 8/ threads 2 | (25* → 20) 4 node/ task 8/ threads 4 | (25* → 20) 4 node/ task 8/ threads 8 | (36* → 32) 5 node/ task 8/ threads 2 | (36* → 32) 5 node/ task 8/ threads 4 | (36* → 32) 5 node/ task 8/ threads 8 | (49* → 40) 7 node/ task 8/ threads 2 |
|---|---|---|---|---|---|---|---|---|---|
| min | 4.429293 | 0.048014 | 1.662895 | 4.896429 | 0.094841 | 1.654799 | 4.968687 | 0.075923 | 1.693221 |
| max | 4.433768 | 0.048038 | 1.673436 | 4.898391 | 0.095570 | 1.655257 | 4.976955 | 0.076531 | 1.700397 |
| avg | 4.430451 | 0.048024 | 1.671670 | 4.896745 | 0.095237 | 1.655066 | 4.972841 | 0.076253 | 1.698463 |

| 80x64 | (49* → 40) 7 node/ task 8/ threads 4 | (49* → 40) 7 node/ task 8/ threads 8 | (64) 8 node/ task 32/ threads 2 | (64) 8 node/ task 32/ threads 4 | (64) 8 node/ task 16/ threads 4 | (64) 8 node/ task 8/ threads 8 |
|---|---|---|---|---|---|---|
| min | 5.047668 | 0.133283 | 1.573604 | 4.444310 | 4.147040 | 0.129115 |
| max | 5.060179 | 0.143224 | 1.574066 | 4.444549 | 4.147223 | 0.135712 |
| avg | 5.051599 | 0.136584 | 1.573826 | 4.444439 | 4.147141 | 0.134008 |

| 160x128 | (1) 1 node/ task 1/ threads 1 | (4) 1 node/ task 2/ threads 2 | (4) 1 node/ task 2/ threads 4 | (4) 1 node/ task 1/ threads 4 | (9* → 8) 2 node/ task 8/ threads 2 | (9* → 8) 2 node/ task 8/ threads 4 | (9* → 8) 2 node/ task 8/ threads 8 | (16) 2 node/ task 8/ threads 2 | (16) 2 node/ task 8/ threads 4 |
|---|---|---|---|---|---|---|---|---|---|
| min | 0.050358 | 0.030309 | 0.051844 | 0.088579 | 1.539849 | 4.788362 | 0.080193 | 1.470810 | 3.016470 |
| max | 0.050358 | 0.030310 | 0.051844 | 0.088579 | 1.540093 | 4.795072 | 0.080380 | 1.490892 | 3.016652 |
| avg | 0.050358 | 0.030309 | 0.051844 | 0.088579 | 1.540001 | 4.790417 | 0.080246 | 1.485822 | 3.016574 |

| 160x128 | (16) 2 node/ task 4/ threads 4 | (16) 2 node/ task 2/ threads 8 | (25* → 20) 4 node/ task 8/ threads 2 | (25* → 20) 4 node/ task 8/ threads 4 | (25* → 20) 4 node/ task 8/ threads 8 | (36* → 32) 5 node/ task 8/ threads 2 | (36* → 32) 5 node/ task 8/ threads 4 | (36* → 32) 5 node/ task 8/ threads 8 | (49* → 40) 7 node/ task 8/ threads 2 |
|---|---|---|---|---|---|---|---|---|---|
| min | 1.562653 | 0.065902 | 1.644925 | 4.894531 | 0.062228 | 1.648768 | 4.983754 | 0.083061 | 1.659685 |
| max | 1.562669 | 0.065960 | 1.646943 | 4.900725 | 0.082320 | 1.649137 | 4.995234 | 0.103296 | 1.671872 |
| avg | 1.562660 | 0.065931 | 1.646465 | 4.897673 | 0.076259 | 1.648907 | 4.990538 | 0.098727 | 1.668438 |

| 160x128 | (49* → 40) 7 node/ task 8/ threads 4 | (49* → 40) 7 node/ task 8/ threads 8 | (64) 8 node/ task 32/ threads 2 | (64) 8 node/ task 32/ threads 4 | (64) 8 node/ task 16/ threads 4 | (64) 8 node/ task 8/ threads 8 |
|---|---|---|---|---|---|---|
| min | 5.007628 | 0.088361 | 1.560307 | 4.240298 | 1.552802 | 0.074363 |
| max | 5.030647 | 0.088910 | 1.560543 | 4.242579 | 1.553004 | 0.074566 |
| avg | 5.026192 | 0.088674 | 1.560451 | 4.242398 | 1.552902 | 0.074474 |

| 320x256 | (1) 1 node/ task 1/ threads 1 | (4) 1 node/ task 2/ threads 2 | (4) 1 node/ task 2/ threads 4 | (4) 1 node/ task 1/ threads 4 | (9* → 8) 2 node/ task 8/ threads 2 | (9* → 8) 2 node/ task 8/ threads 4 | (9* → 8) 2 node/ task 8/ threads 8 | (16) 2 node/ task 8/ threads 2 | (16) 2 node/ task 8/ threads 4 |
|---|---|---|---|---|---|---|---|---|---|
| min | 0.388842 | 0.105041 | 0.109871 | 0.210830 | 1.593999 | 4.802559 | 0.056890 | 1.382817 | 2.990609 |
| max | 0.388842 | 0.105043 | 0.109872 | 0.210830 | 1.613974 | 4.814686 | 0.075572 | 1.382905 | 2.990674 |
| avg | 0.388842 | 0.105042 | 0.109872 | 0.210830 | 1.606329 | 4.811437 | 0.073171 | 1.382867 | 2.990642 |

| 320x256 | (16) 2 node/ task 4/ threads 4 | (16) 2 node/ task 2/ threads 8 | (25* → 20) 4 node/ task 8/ threads 8 | (25* → 20) 4 node/ task 8/ threads 8 | (36* → 32) 5 node/ task 8/ threads 8 | (49* → 40) 7 node/ task 8/ threads 8 | (64) 8 node/ task 32/ threads 2 | (64) 8 node/ task 32/ threads 4 | (64) 8 node/ task 16/ threads 4 |
|---|---|---|---|---|---|---|---|---|---|
| min | 1.704915 | 0.162480 | 0.106151 | 0.106151 | 0.126195 | 0.113763 | 1.582629 | 4.202089 | 1.570257 |
| max | 1.704950 | 0.162493 | 0.106464 | 0.106464 | 0.127193 | 0.116994 | 1.583151 | 4.204926 | 1.570456 |
| avg | 1.704931 | 0.162487 | 0.106337 | 0.106337 | 0.126796 | 0.116218 | 1.582912 | 4.204093 | 1.570340 |

| 320x256 | (64) 8 node/ task 8/ threads 8 | (81* → 80) 11 node/ task 8/ threads 8 | (128) 16 node/ task 16/ threads 8 | (160) 20 node/ task 20/ threads 8 |
|---|---|---|---|---|
| min | 0.152210 | 0.165228 | 0.102456 | 0.112118 |
| max | 0.152510 | 0.166312 | 0.102985 | 0.113205 |
| avg | 0.152326 | 0.165819 | 0.102842 | 0.112872 |

| 640x1024 | (1) 1 node/ task 1/ threads 1 | (4) 1 node/ task 2/ threads 2 | (4) 1 node/ task 2/ threads 4 | (4) 1 node/ task 1/ threads 4 | (9* → 8) 2 node/ task 8/ threads 4 | (9* → 8) 2 node/ task 8/ threads 8 | (16) 2 node/ task 4/ threads 4 | (16) 2 node/ task 2/ threads 8 | (25* → 20) 4 node/ task 8/ threads 8 |
|---|---|---|---|---|---|---|---|---|---|
| min | 1.710909 | 0.795224 | 0.795224 | 1.284686 | 4.782162 | 0.110153 | 3.222535 | 0.854964 | 0.120523 |
| max | 1.710909 | 0.795224 | 0.795224 | 1.284686 | 4.787438 | 0.110379 | 3.222578 | 0.855027 | 0.127583 |
| avg | 1.710909 | 0.795224 | 0.795224 | 1.284686 | 4.783148 | 0.110243 | 3.222554 | 0.854996 | 0.121482 |

| 640x1024 | (36* → 32) 5 node/ task 8/ threads 8 | (49* → 40) 7 node/ task 8/ threads 8 | (64) 8 nodes/ task 8/ thread 8 | (81* → 80) 11 node/ task 8/ threads 8 | (100* → 80) 13 node/ task 8/ threads 8 | (121* → 80) 16 node/ task 8/ threads 8 | (128) 16 node/8 tasks/ threads 8 | (144* → 128) 18 node/ task 8/ threads 8 | (160) 20 node/ 8 tasks/ 8 threads |
|---|---|---|---|---|---|---|---|---|---|
| min | 0.106174 | 0.162267 | 1.098334 | 0.156322 | 0.129017 |  | 1.330779 |  |  |
| max | 0.107351 | 0.174541 | 1.098414 | 0.158507 | 0.136647 |  | 1.347186 |  |  |
| avg | 0.106974 | 0.172527 | 1.098366 | 0.156743 | 0.133674 |  | 1.343399 |  |  |