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| --- | --- | --- | --- | --- |
| Compiler flags | Optimization | Time to calculate E (s) | Total Time (s) | Result |
| -Wall |  | 3.5987 | 3.6120 | 58261662.7646147534 |
| -O1 |  | 1.8520 | 1.8647 | 58261662.7646147534 |
| -O2 |  | 1.7811 | 1.7930 | 58261662.7646147534 |
| -O3 |  | 1.7855 | 1.7973 | 58261662.7646147534 |
| -Ofast |  | 1.1835 | 1.1961 | 58261662.7646147460 |
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|  |  |  |  |  |
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|  |  |  |  |  |
| -O3 | Realign for loops, cut out branching | 1.7535 | 1.7666 | 58261662.7646147534 |
| -O3 | Bring out coords dereference | 1.7486 | 1.7621 | 58261662.7646147534 |
| -O3 | Bring out i-related dereferencing | 1.7393 | 1.7526 | 58261662.7646147534 |
| -O3 | Move sqrt until later, compare to cut2 | 1.5819 | 1.5953 | 58261654.5481551588 |
| -O3 | Handwritten squaring | 1.5840 | 1.5974 | 58261654.5481551588 |
| -O3 | Combining exponents | 0.9576 | 0.9699 | 58261654.5481551513 |
| -O3 | Move out "- 1.0/a" | 0.9473 | 0.9594 | 58261654.5481553227 |
| -Ofast | Above | 0.9299 | 0.9422 | 58261654.5481553227 |
| -Ofast -fno-stack-protector | Above | 0.9283 | 0.9405 | 58261654.5481553227 |
|  |  |  |  |  |