

Peregrine Windows 10 64-bit Prime95 V29.5b6 64-bit 6-core hyperthreaded i7-8750H FMA3
 Prime95 benchmark output, system throughput, iter/sec (more is better for a given fft length) formula cell
Bold is fastest throughput, underlined is slowest for a given fft length (exponent range) background for 1 week.

# of cores per worker	# of workers				Straddles chips? →	penalty from optimum			
	6	3	2	1		no	no	no	no
FFT length K	iter/sec				max thruput	1-worker	2 workers	3 workers	6 workers
2048	235.18	217.67	215.77	<u>210.13</u>	235.18	0.00%	7.45%	8.25%	10.65%
2304	209.38	195.48	191.95	<u>186.5</u>	209.38	0.00%	6.64%	8.32%	10.93%
2400	192.77	182.01	179.05	<u>178.24</u>	192.77	0.00%	5.58%	7.12%	7.54%
2560	176.24	173.01	168	<u>164.75</u>	176.24	0.00%	1.83%	4.68%	6.52%
2688	167.87	157.57	158.47	<u>158.11</u>	167.87	0.00%	6.14%	5.60%	5.81%
2880	152.89	147.38	<u>146.12</u>	146.18	152.89	0.00%	3.60%	4.43%	4.39%
3072	142.45	139.79	<u>137.53</u>	<u>136.4</u>	142.45	0.00%	1.87%	3.45%	4.25%
3200	135.4	131.75	127.69	<u>128.32</u>	135.4	0.00%	2.70%	5.69%	5.23%
3360	130.3	127.86	125.03	<u>124.4</u>	130.3	0.00%	1.87%	4.04%	4.53%
3456	124.91	120.69	120.04	<u>120.19</u>	124.91	0.00%	3.38%	3.90%	3.78%
3584	119.54	117.46	116.67	<u>116.58</u>	119.54	0.00%	1.74%	2.40%	2.48%
3840	110.2	108.43	<u>107.53</u>	107.19	110.2	0.00%	1.61%	2.42%	2.73%
4096	103.75	101.97	101.82	<u>101.68</u>	103.75	0.00%	1.72%	1.86%	2.00%
4480	93.43	<u>88.69</u>	91.58	91.53	93.43	0.00%	5.07%	1.98%	2.03%
4608	91.23	88.18	<u>86.05</u>	88.1	91.23	0.00%	3.34%	5.68%	3.43%
4800	85.96	84.11	83.96	<u>83.05</u>	85.96	0.00%	2.15%	2.33%	3.39%
5120	<u>75.52</u>	78.36	76.91	77.93	78.36	3.62%	0.00%	1.85%	0.55%
5376	<u>72.09</u>	74.6	73.61	74.25	74.6	3.36%	0.00%	1.33%	0.47%
5760	<u>66.1</u>	68.05	67.85	68.39	68.39	3.35%	0.50%	0.79%	0.00%
6144	66.15	<u>65.93</u>	66.08	66.49	66.49	0.51%	0.84%	0.62%	0.00%
6400	63.13	<u>60.77</u>	62.73	62.55	63.13	0.00%	3.74%	0.63%	0.92%
6720	61.43	<u>61.26</u>	61.42	61.66	61.66	0.37%	0.65%	0.39%	0.00%
6912	57.51	<u>57.11</u>	57.99	58.47	58.47	1.64%	2.33%	0.82%	0.00%
7168	<u>57.33</u>	57.96	57.58	57.5	57.96	1.09%	0.00%	0.66%	0.79%
7680	<u>53.16</u>	53.31	52.92	53.23	53.31	0.28%	0.00%	0.73%	0.15%
8064	50.3	<u>49.04</u>	50.9	50.89	50.9	1.18%	3.65%	0.00%	0.02%
8192	49.39	48.51	47.47	<u>46.44</u>	49.39	0.00%	1.78%	3.89%	5.97%
8960	<u>41.39</u>	42.08	42.09	41.97	42.09	1.66%	0.02%	0.00%	0.29%
9216	41.26	41.92	41.64	<u>40.47</u>	41.92	1.57%	0.00%	0.67%	3.46%
9600	38.63	38.89	39.02	<u>38.14</u>	39.02	1.00%	0.33%	0.00%	2.26%
10240	<u>34.37</u>	35.14	35.2	36.18	36.18	5.00%	2.87%	2.71%	0.00%
10752	<u>35.17</u>	35.93	35.8	36.24	36.24	2.95%	0.86%	1.21%	0.00%
11520	<u>30.79</u>	33.69	33.08	33.45	33.69	8.61%	0.00%	1.81%	0.71%
12288	<u>29.8</u>	30.18	29.99	30.17	30.18	1.26%	0.00%	0.63%	0.03%
12800	<u>29.08</u>	29.64	29.75	29.71	29.75	2.25%	0.37%	0.00%	0.13%
13440	<u>28.22</u>	28.69	28.23	28.64	28.69	1.64%	0.00%	1.60%	0.17%
13824	<u>27.15</u>	27.79	27.29	27.79	27.79	2.30%	0.00%	1.80%	0.00%
14336	<u>26.33</u>	26.96	26.5	26.73	26.96	2.34%	0.00%	1.71%	0.85%
15360	24.5	24.72	<u>24.39</u>	24.64	24.72	0.89%	0.00%	1.33%	0.32%
16000	<u>22.22</u>	22.92	22.9	23.04	23.04	3.56%	0.52%	0.61%	0.00%
16384	<u>22.88</u>	22.95	23.02	23.09	23.09	0.91%	0.61%	0.30%	0.00%
17920	<u>20.66</u>	21.2	20.49	21.01	21.2	2.55%	0.00%	3.35%	0.90%
18432	19.52	19.86	<u>19.28</u>	19.55	19.86	1.71%	0.00%	2.92%	1.56%
19200	<u>18.64</u>	18.89	18.77	19.16	19.16	2.71%	1.41%	2.04%	0.00%

20480	18.08	18.44	<u>18.01</u>	18.2	18.44	1.95%	0.00%	2.33%	1.30%
21504	<u>16.89</u>	16.94	17.22	16.97	17.22	1.92%	1.63%	0.00%	1.45%
22400	<u>15.98</u>	16.17	16.35	16.11	16.35	2.26%	1.10%	0.00%	1.47%
23040	16.21	15.88	<u>15.5</u>	16.18	16.21	0.00%	2.04%	4.38%	0.19%
24576	16.03	<u>15.57</u>	16.05	16.11	16.11	0.50%	3.35%	0.37%	0.00%
25600	15.1	<u>14.65</u>	15.06	15.33	15.33	1.50%	4.44%	1.76%	0.00%
26880	14.03	<u>14.02</u>	14.16	14.3	14.3	1.89%	1.96%	0.98%	0.00%
28672	13.02	<u>12.31</u>	12.82	12.84	13.02	0.00%	5.45%	1.54%	1.38%
30720	11.58	<u>11</u>	11.4	11.11	11.58	0.00%	5.01%	1.55%	4.06%
32768	11.52	<u>10.95</u>	11.6	11.58	11.6	0.69%	5.60%	0.00%	0.17%
# of workers	1	2	3	6	max thrupt penalty from optimum				
					min	0.00%	0.00%	0.00%	0.00%
# fastest	20	13	7	15	average	1.28%	2.00%	2.21%	2.02%
# slowest	20	12	7	15	max	8.61%	7.45%	8.32%	10.93%

6-core i7-8750H Prime95 V29.5b6

Performance penalty vs fft length specific optimum

