

Win 10, Adrenalin 18.10.2 driver	openowl V6.2-e2ffe65 fft variants				openowl V6.2 RX480 ms / sq				test exponent	V3.8-91c52fa	V5.0-9c13870	V1.9-74f1a38	V2.0-dbc5a01	Best time, days	% faster	FFT MiB	Min ms / iter /
FFT size	Approx. min exp & max	-fft 0	-fft +1	-fft +2	-fft +3	-fft 0	-fft +1	-fft +2	-fft +3			-fft DP		run time est	before V6.2		MiB fft length
8K	0.01M	0.18M	64-64													0.0078	
32K	0.05M	0.68M	64-256	256-64												0.0313	
48K	0.07M	1.01M	64-64-6													0.0391	
64K	0.10M	1.34M	64-512	512-64												0.0625	
72K	0.11M	1.50M	64-64-9													0.0703	
80K	0.12M	1.66M	64-64-10													0.0938	
128K	0.20M	2.63M	1K-64	64-1K	256-256					216091	0.16					0.1250	1.28000
192K	0.29M	3.91M	64-256-6	256-64-6												0.1875	
256K	0.39M	5.18M	64-2K	256-512	512-256	2K-64				2976221	0.252			0.01		0.2500	1.00800
288K	0.44M	5.81M	64-256-9	256-64-9												0.2813	
320K	0.49M	6.44M	64-256-10	256-64-10												0.3125	
384K	0.59M	7.69M	64-512-6	256-64-6												0.3750	
512K	0.79M	10.18M	1K-256	256-1K	512-512	4K-64				9000059	0.43	0.398		0.04		0.5000	0.78400
576K	0.88M	11.42M	64-512-9	512-64-9												0.5625	
640K	0.98M	12.66M	64-512-10	512-64-10												0.625	
768K	1.18M	15.12M	1K-64-6	64-1K-6	256-256-6					13466917	0.738			0.12		0.750	0.98400
1M	1.57M	20.02M	1K-512	256-2K	512-1K	2K-256										1.000	
1152K	1.77M	22.45M	1K-64-9	64-1K-9	256-256-9					20996011	0.974			0.24		1.125	0.86578
1280K	1.97M	24.88M	1K-64-10	64-1K-10	256-256-10					24036583	1.172			0.33		1.25	0.93760
1536K	2.36M	29.72M	64-2K-6	256-512-6	512-256-6	2K-64-6				25964951	1.336			0.40		1.50	0.89067
2M	3.15M	39.34M	1K-1K	512-2K	2K-512	4K-256	1.602	1.80	1.837	38000009	1.62		1.59	0.70	0.75%	2.00	0.79500
2304K	3.54M	44.13M	64-2K-9	256-512-9	512-256-9	2K-64-9				42643801	1.976			0.98		2.25	0.87822
2560K	3.93M	48.90M	64-2K-10	256-512-10	512-256-10	2K-64-10	5.735	2.247	2.188	48000991	2.22			1.22		2.50	0.87520
3M	4.72M	58.41M	1K-256-6	256-1K-6	512-512-6	4K-64-6	2.55	2.94	2.86	57000991	2.752			1.68		3.00	0.85000
4M	6.29M	77.30M	1K-2K	2K-1K	4K-512		3.194	3.40	3.816	77000233	3.164	3.193	3.115	2.78	2.47%	4.00	0.77875
4608K	7.08M	86.70M	1K-256-9	256-1K-9	512-512-9	4K-64-9	3.795	4.10	4.17	85000483	3.86	3.764		3.70	0.82%	4.50	0.83644
5000K													5.25	0.00		4.8828	1.07520
5M	7.86M	96.07M	1K-256-10	256-1K-10	512-512-10	2K-64-10	4.206	4.86	4.696	95000011	4.326	4.483		4.62		5	0.84120
6M	9.44M	114.74M	1K-512-6	256-2K-6	512-1K-6	2K-256-6	5.33	5.838	6.207	113000033		5.61		6.97		6	0.88833
8M	12.58M	151.83M	2K-2K	4K-1K			6.682	7.212		151000033	7.03	6.678	6.58	11.50	1.53%	8	0.82250
9M	14.16M	170.28M	1K-512-9	256-2K-9	512-1K-9	2K-256-9	7.902	8.654	8.704	169000061	7.63	7.91		14.92	3.44%	9	0.84778
10M	15.73M	188.68M	1K-512-10	256-2K-10	512-1K-10	2K-256-10										10	
12M	18.87M	225.32M	1K-1K-6	512-2K-6	2K-512-6	4K-256-6										12	
16M	25.17M	298.13M	4K-2K				14.18			297000059	14.23	14.12		48.54	0.42%	16	0.88250
18M	28.31M	334.34M	1K-1K-9	512-2K-9	2K-512-9	4K-256-9	16.63	18.81	17.00	333000163	16.3	16.94		62.82	1.98%	18	0.90556
20M	31.46M	370.44M	1K-1K-10	512-2K-10	2K-512-10	4K-256-10	19.04	21.00	18.96	369000029	18.96	19.082		80.98		20	0.94800
24M	37.75M	442.34M	1K-2K-6	2K-1K-6	4K-512-6											24	
36M	56.62M	656.22M	1K-2K-9	2K-1K-9	4K-512-9		34.39	35.37	35.80	654000059	34.16	34.48		258.57	0.67%	36	0.94889
40M	62.91M	727.03M	1K-2K-10	2K-1K-5	4K-512-10		38.25	39.33	39.36	720000049	41.31	41.19		318.75		40	0.95625
48M	75.50M	868.07M	2K-2K-6	4K-1K-6			47.74	49.44		867000083		50.32		479.06		48	0.99458
72M	113.25M	1287.53M	2K-2K-9	4K-1K-9			71.92	74.39		999999937	72.95	75.09		832.41		72	0.99889
80M	125.83M	1426.38M	2K-2K-10	4K-1K-10						1410000023						80	
96M	150.99M	1702.92M	4K-2K-6							1690000021						96	
144M	226.49M	2525.23M	4K-2K-9				assertion failed			2500000039	158	164.5		4571.76		144	1.09722
160M	251.66M	2797.39M	4K-2K-10							2780000033						160	
count of fastest / fft length			7	0	2	0				5	2	3	0	average	1.51%		

Blue ms/iter numbers above indicate fastest time for the fft length across all versions listed here. There was a tie at 20M.

Blue numbers above indicate runs made for different exponents on other gpuowl versions than the values listed above which were used for V6.2:

V3.8 and 5.0 9M were for 171000041; V3.8 16M timing was for 299000059; V3.8 20M for 371000039; V3.8 36M for 658000139; V3.8 and V5.0 40M for 728000017; V3.8 and V5.0 144M for 15000000041

Red numbers above indicate anomalously long iteration times, more than 2:1 longer than other choices for the same fft length

Red bold italic text above indicates errors observed

MS/iter on RX480 vs apuowl version. -fft option

best-time milliseconds / Iteration / MiB of fft length

