

mixbench-hip (v0.04-12-g440a133)

----- Device specifications -----

Device: AMD Radeon PRO W7700  
CUDA driver version: 60140.91  
GPU clock rate: 1617 MHz  
WarpSize: 32  
L2 cache size: 4096 KB  
Total global mem: 15344 MB  
Total SPs: 3072 (24 MPs x 128 SPs/MP)  
Compute throughput: 9934.85 GFlops (theoretical single precision FMAs)  
Memory bandwidth: 71.94 GB/sec

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Total GPU memo free 15896412160

Buffer size: 256MB  
Trade-off type: compute with global memory (block strided)  
Elements per thread: 8  
Thread fusion degree: 1

----- CSV data -----

Experiment ID	Single Precision ops				Packed Single Precision ops				Double precision ops				Half precision ops				Integer operations			
	Compute iters	Flops/byte	ex.time	GFLOPS	GB/sec	Flops/byte	ex.time	GFLOPS	GB/sec	Flops/byte	ex.time	GFLOPS	GB/sec	Flops/byte	ex.time	GFLOPS	GB/sec	lops/byte	ex.time	GIOPS
0	0.25	0.27	125.09	500.36	0.25	0.53	126.13	504.5	0.125	0.54	62.4	499.17	0.5	0.27	249.62	499.25	0.25	0.27	124.63	498.51
1	0.75	0.27	374.16	498.88	0.75	0.53	379.46	505.95	0.375	0.53	189.12	504.31	1.5	0.27	748.98	499.32	0.75	0.27	374.21	498.95
2	1.25	0.27	622.85	498.28	1.25	0.53	634.11	507.28	0.625	0.53	315.72	505.15	2.5	0.27	1253.52	501.41	1.25	0.27	625.55	500.44
3	1.75	0.27	876.42	500.81	1.75	0.53	888.82	507.9	0.875	0.56	416.81	476.35	3.5	0.27	1747.62	499.32	1.75	0.27	867.48	495.71
4	2.25	0.27	1125.82	500.36	2.25	0.53	1141.05	507.13	1.125	0.69	436.25	387.78	4.5	0.27	2245.27	498.95	2.25	0.27	1108.79	492.8
5	2.75	0.27	1370.89	498.51	2.75	0.53	1399.26	508.82	1.375	0.82	449.02	326.56	5.5	0.27	2745.45	499.17	2.75	0.27	1345.9	489.42
6	3.25	0.27	1622.07	499.1	3.25	0.53	1650.42	507.82	1.625	0.96	455.94	280.58	6.5	0.27	3243.65	499.02	3.25	0.28	1582.75	487
7	3.75	0.27	1871.61	499.1	3.75	0.53	1904.05	507.75	1.875	1.09	460.66	245.68	7.5	0.27	3746.59	499.54	3.75	0.28	1808.93	482.38
8	4.25	0.27	2124.65	499.92	4.25	0.53	2154.17	506.86	2.125	1.23	462.5	217.64	8.5	0.27	4239.8	498.8	4.25	0.28	2026.51	476.83
9	4.75	0.27	2365.79	498.06	4.75	0.53	2409.79	507.32	2.375	1.37	464.15	195.43	9.5	0.27	4731.57	498.06	4.75	0.28	2247.05	473.06
10	5.25	0.27	2616.37	498.36	5.25	0.53	2663.85	507.4	2.625	1.51	465.85	177.47	10.5	0.27	5238.96	498.95	5.25	0.28	2498.73	475.95
11	5.75	0.27	2869.38	499.02	5.75	0.53	2916.89	507.29	2.875	1.65	467.03	162.44	11.5	0.27	5749.02	499.92	5.75	0.28	2717.81	472.66
12	6.25	0.27	3108.72	497.4	6.25	0.53	3169.57	507.13	3.125	1.79	467.54	149.61	12.5	0.27	6234.08	498.73	6.25	0.28	2963.74	474.2
13	6.75	0.27	3355.93	497.17	6.75	0.53	3423.65	507.21	3.375	1.98	456.89	135.37	13.5	0.27	6700.93	496.37	6.75	0.29	3128.77	463.52
14	7.25	0.27	3606.12	497.4	7.25	0.53	3673.37	506.67	3.625	2.07	468.99	129.38	14.5	0.27	7201.59	496.66	7.25	0.3	3214.45	443.37
15	7.75	0.27	3828.14	493.95	7.75	0.53	3924.92	506.44	3.875	2.22	469.41	121.14	15.5	0.27	7695.94	496.51	7.75	0.32	3270.2	421.96
16	8.25	0.27	4070.93	493.45	8.25	0.53	4173.11	505.83	4.125	2.36	469.8	113.89	16.5	0.27	8188.82	496.29	8.25	0.34	3304.17	400.51
17	8.75	0.27	4320.21	493.74	8.75	0.53	4427.03	505.95	4.375	2.5	470.33	107.5	17.5	0.27	8641.65	493.81	8.75	0.35	3350.46	382.91
18	9.25	0.27	4562.36	493.23	9.25	0.53	4680	505.95	4.625	2.64	470.48	101.72	18.5	0.27	9174.62	495.93	9.25	0.37	3378.81	365.28
20	10.25	0.27	5071.26	494.76	10.25	0.53	5191.81	506.52	5.125	2.92	471.35	91.97	20.5	0.27	10063.84	490.92	10.25	0.4	3421.19	333.77
22	11.25	0.28	5487.51	487.78	11.25	0.53	5692.76	506.02	5.625	3.21	469.89	83.54	22.5	0.27	11109.06	493.74	11.25	0.44	3457.46	307.33
24	12.25	0.28	5970.95	487.42	12.25	0.53	6207.2	506.71	6.125	3.5	470.09	76.75	24.5	0.28	11934.97	487.14	12.25	0.47	3497.92	285.54
28	14.25	0.28	6901.69	484.33	14.25	0.56	6791.9	476.62	7.125	4.06	471.06	66.11	28.5	0.28	13749.79	482.45	14.25	0.55	3465.61	243.2
32	16.25	0.28	7840.92	482.52	16.25	0.56	7737.99	476.18	8.125	4.63	471.52	58.03	32.5	0.28	15536.62	478.05	16.25	0.62	3536.28	217.62
40	20.25	0.28	9575.46	472.86	20.25	0.56	9792.13	483.56	10.125	5.76	472.09	46.63	40.5	0.28	19177.95	473.53	20.25	0.76	3589.6	177.26
48	24.25	0.28	11489.58	473.8	24.25	0.56	11542.55	475.98	12.125	6.89	472.38	38.96	48.5	0.28	23109.69	476.49	24.25	0.9	3624.3	149.46
56	28.25	0.3	12756.15	451.55	28.25	0.56	13457.93	476.39	14.125	8.06	470.57	33.31	56.5	0.31	24853.51	439.89	28.25	1.04	3637.69	128.77
64	32.25	0.33	13175.78	408.55	32.25	0.61	14296.83	443.31	16.125	9.19	470.85	29.2	64.5	0.33	25851.1	400.79	32.25	1.17	3694.53	114.56
80	40.25	0.4	13547.59	336.59	40.25	0.82	13222	328.5	20.125	11.46	471.23	23.42	80.5	0.41	26541.47	329.71	40.25	1.46	3707.99	92.12
96	48.25	0.49	13098.66	271.47	48.25	0.98	13261.77	274.86	24.125	13.79	469.49	19.46	96.5	0.46	27983.72	289.99	48.25	1.75	3700.65	76.7
128	64.25	0.62	13971.91	217.46	64.25	1.33	12926.4	201.19	32.125	18.35	469.85	14.63	128.5	0.61	28411.51	221.1	64.25	2.44	3540.36	55.1
256	128.25	1.18	14566.86	113.58	128.25	2.46	13993.48	109.11	64.125	36.69	469.17	7.32	256.5	1.18	29253.54	114.05	128.25	4.64	3710.51	28.93
512	256.25	2.32	14820.56	57.84	256.25	4.63	14863.6	58	128.125	72.94	471.5	3.68	512.5	2.31	29731.32	58.01	256.25	9.4	3658.07	14.28