mixbench/alternating (v0.03-13-gf65df9d)
---------- Device specifications ----------
Device: A100-SXM4-40GB
CUDA driver version: 11.0
GPU clock rate: 1410 MHz
Memory clock rate: 607 MHz
Memory bus width: 5120 bits
WarpSize: 32
L2 cache size: 40960 KB
Total global mem: 40537 MB
ECC enabled: Yes
Compute Capability: 8.0
Total SPs: 13824 (108 MPs x 128 SPs/MP)
Compute throughput: 38983.68 GFlops (theoretical single precision FMAs)
Memory bandwidth: 1555.20 GB/sec

Total GPU memory 42506321920, free 42068017152
Buffer size: 64MB
Trade-off type: compute with global memory (block strided)

	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	Iops/byte	ex.time	GIOPS	GB/sec
0	0	3.89	0	2209.27	0	7.62	0	2255.91	0	3.89	0	2208.11	0	3.87	0	2220.97
1	0.129	3.66	293.31	2273.14	0.065	7.35	146.18	2265.85	0.258	3.74	574.56	2226.43	0.129	3.63	296.04	2294.32
2	0.267	3.67	585.63	2196.12	0.133	7.12	301.71	2262.79	0.533	3.6	1192.58	2236.09	0.267	3.69	582.7	2185.14
3	0.414	3.65	882.14	2131.85	0.207	6.93	464.79	2246.51	0.828	3.64	1769.25	2137.84	0.414	3.64	885.12	2139.05
4	0.571	3.51	1223.19	2140.58	0.286	6.63	648.27	2268.94	1.143	3.52	2440.68	2135.59	0.571	3.56	1206.65	2111.63
5	0.741	3.38	1587.79	2143.52	0.37	6.35	844.94	2281.35	1.481	3.56	3020.09	2038.56	0.741	3.5	1532.11	2068.35
6	0.923	3.18	2026.23	2195.09	0.462	6.21	1036.65	2246.08	1.846	3.25	3965.62	2148.04	0.923	3.23	1992.86	2158.93
7	1.12	3.05	2464.75	2200.67	0.56	5.71	1315.89	2349.8	2.24	3.19	4715.73	2105.24	1.12	3.17	2367.75	2114.06
8	1.333	2.93	2926.94	2195.2	0.667	5.43	1580.97	2371.45	2.667	2.94	5851.84	2194.44	1.333	2.96	2902.63	2176.97
9	1.565	2.91	3320.61	2121.5	0.783	5.25	1840.32	2351.53	3.13	2.9	6669.39	2130.5	1.565	2.89	3338.23	2132.76
10	1.818	2.68	4011.38	2206.26	0.909	5.03	2136.03	2349.63	3.636	2.58	8328.64	2290.38	1.818	2.7	3982.44	2190.34
11	2.095	2.59	4566.25	2179.34	1.048	4.85	2435.97	2325.25	4.19	2.57	9198.04	2194.99	2.095	2.57	4588.04	2189.75
12	2.4	2.46	5247.25	2186.36	1.2	4.56	2826.35	2355.29	4.8	2.39	10796.15	2249.2	2.4	2.51	5137.98	2140.82
13	2.737	2.43	5739.57	2097.15	1.368	4.46	3128.64	2286.31	5.474	2.31	12095.38	2209.73	2.737	2.39	5835.4	2132.16
14	3.111	2.18	6882.36	2212.19	1.556	4.17	3602.47	2315.87	6.222	2.14	14081.6	2263.11	3.111	2.18	6892.05	2215.3
15	3.529	2.22	7264.96	2058.41	1.765	4	4028.85	2283.02	7.059	1.86	17350.95	2458.05	3.529	1.63	9873.6	2797.52
16	4	1.6	10740.86	2685.21	2	3.81	4512.43	2256.22	8	1.49	22998.24	2874.78	4	1.5	11483.38	2870.84
17	4.533	1.48	12344.73	2723.1	2.267	3.29	5554.94	2450.71	9.067	1.45	25106.75	2769.13	4.533	1.51	12060.75	2660.46
18	5.143	1.44	13462.46	2617.7	2.571	3.46	5584.13	2171.61	10.286	1.32	29217.29	2840.57	5.143	1.44	13386.08	2602.85
19	5.846	1.36	14957.17	2558.46	2.923	2.55	7994.76	2735.05	11.692	1.25	32607.11	2788.77	5.846	1.36	14990.93	2564.24
20	6.667	1.3	16500.02	2475	3.333	2.45	8771.02	2631.31	13.333	1.18	36314.32	2723.57	6.667	1.33	16181.73	2427.26
21	7.636	1.31	17176.36	2249.29	3.818	2.54	8889.82	2328.29	15.273	1.08	41863.3	2741.05	7.636	1.31	17216.65	2254.56
22	8.8	1.38	17125.96	1946.13	4.4	2.65	8917.15	2026.63	17.6	1.08	43773.57	2487.13	8.8	1.43	16465.86	1871.12
23	10.222	1.41	17463.61	1708.4	5.111	2.77	8925.7	1746.33	20.444	1.02	48379.63	2366.4	10.222	1.42	17363.03	1698.56
24	12	1.47	17549.39	1462.45	6	2.87	8994.22	1499.04	24	1.11	46345.9	1931.08	12	1.54	16766.04	1397.17
25	14.286	1.53	17593.56	1231.55	7.143	2.96	9064.45	1269.02	28.571	1.03	51909.7	1816.84	14.286	1.53	17593.56	1231.55
26	17.333	1.57	17818.94	1028.02	8.667	3.07	9084.63	1048.23	34.667	1.06	52835.23	1524.09	17.333	1.65	16902.03	975.12
27	21.6	1.66	17497.87	810.09	10.8	3.17	9135.71	845.9	43.2	1.1	52721.7	1220.41	21.6	1.63	17806.01	824.35
28	28	1.67	17968.25	641.72	14	3.29	9143.61	653.11	56	1.18	51150.05	913.39	28	1.88	16000.07	571.43
29	38.667	1.75	17803.69	460.44	19.333	3.42	9098.95	470.64	77.333	1.15	54301.26	702.17	38.667	1.74	17845.48	461.52
30	60	1.79	17996.16	299.94	30	3.52	9152.54	305.08	120	1.21	53453.32	445.44	60	1.99	16173.41	269.56
31	124	1.81	18406.49	148.44	62	3.61	9221.52	148.73	248	1.15	57685.64	232.6	124	1.81	18406.49	148.44
32	inf	1.87	18406.16	0	inf	3.73	9220.78	0	inf	1.2	57260.12	0	inf	1.88	18236.1	0