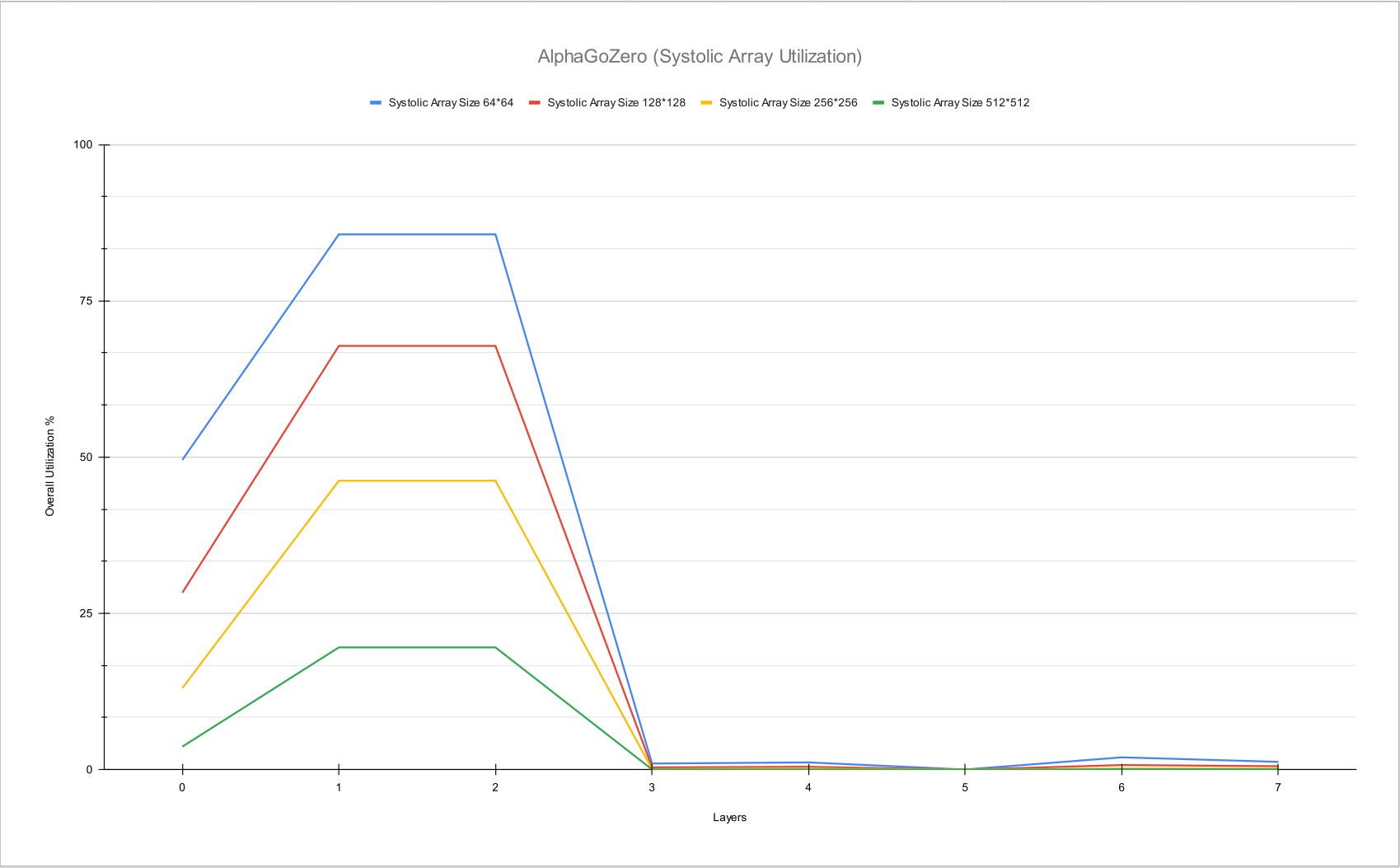
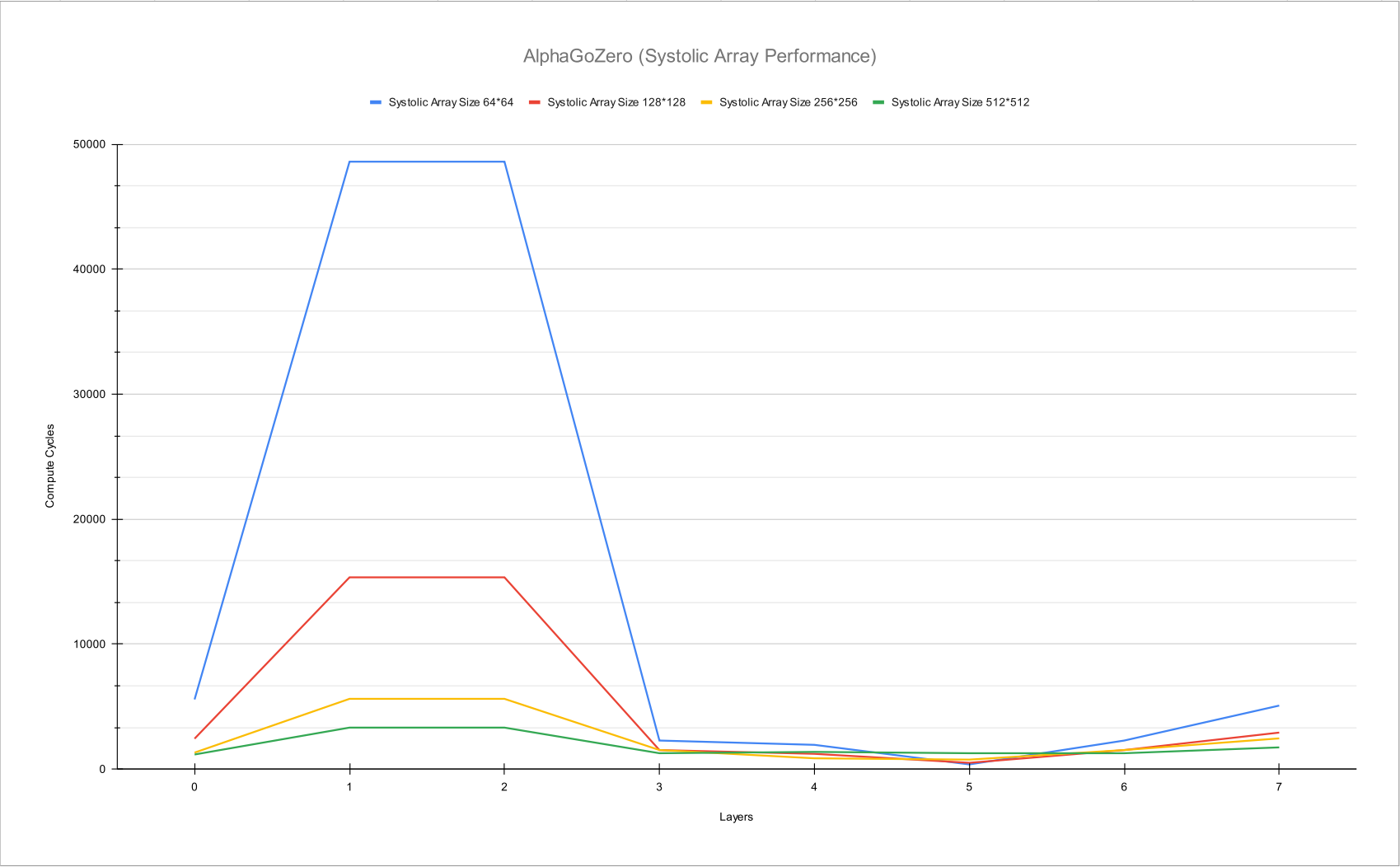
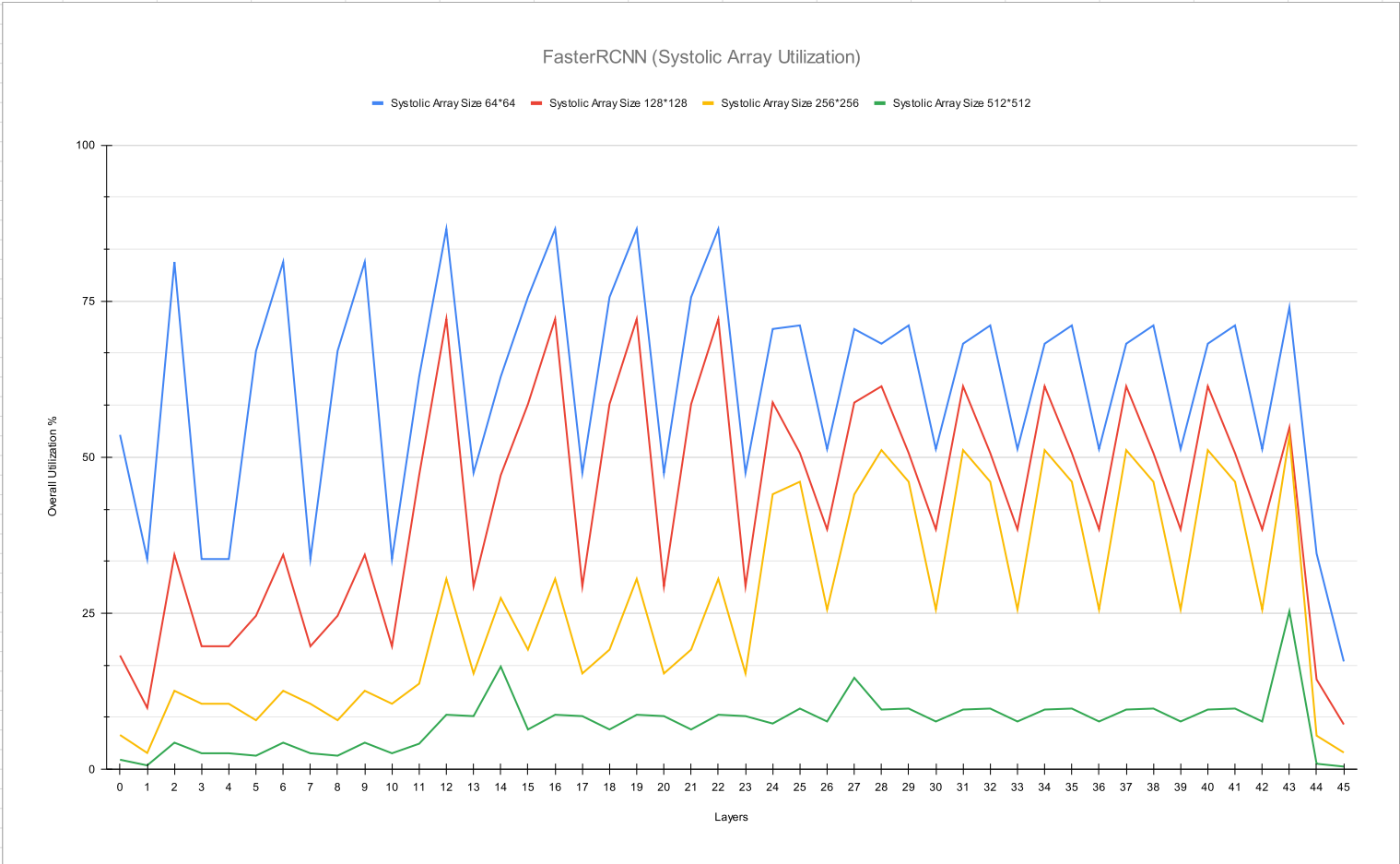
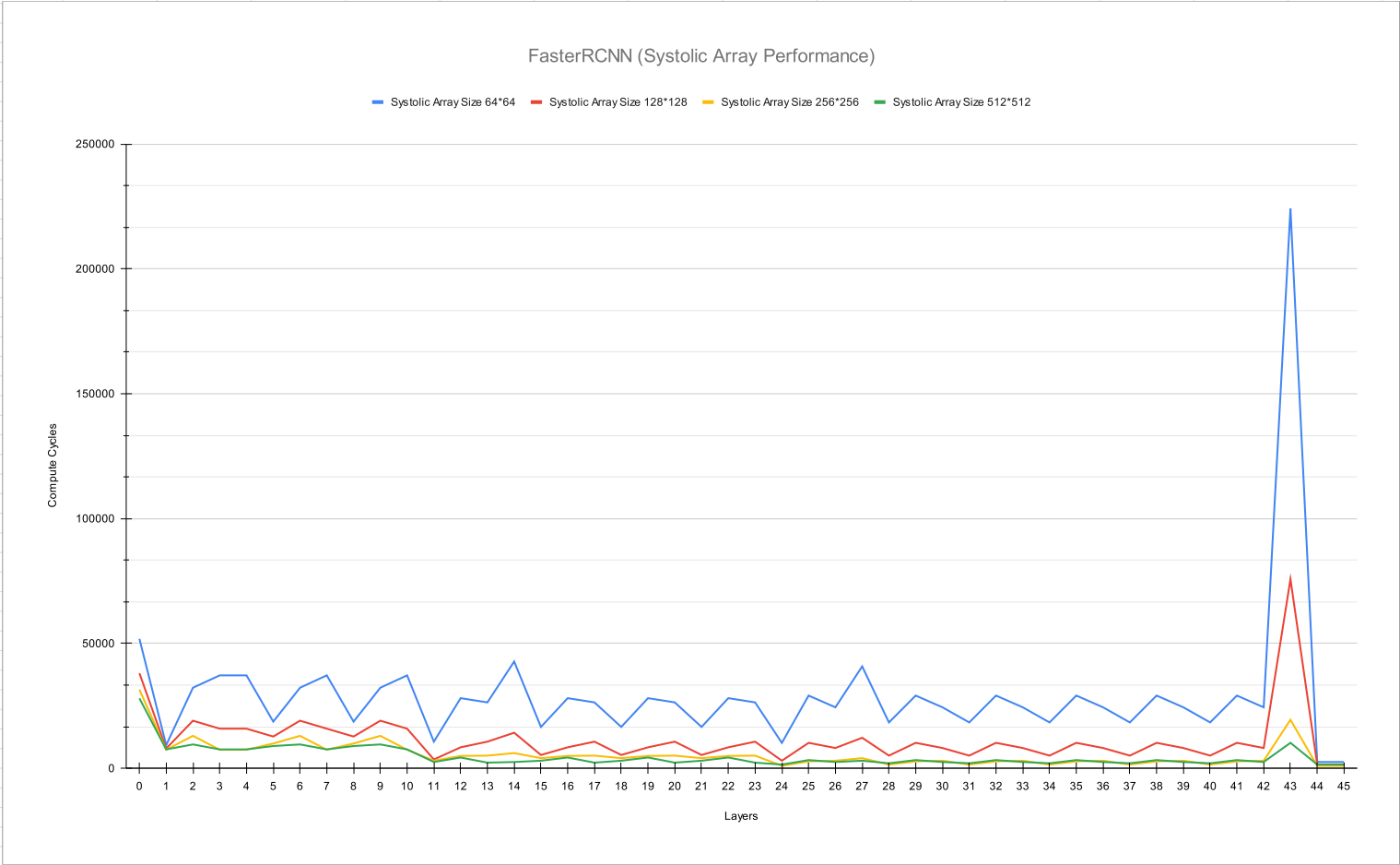


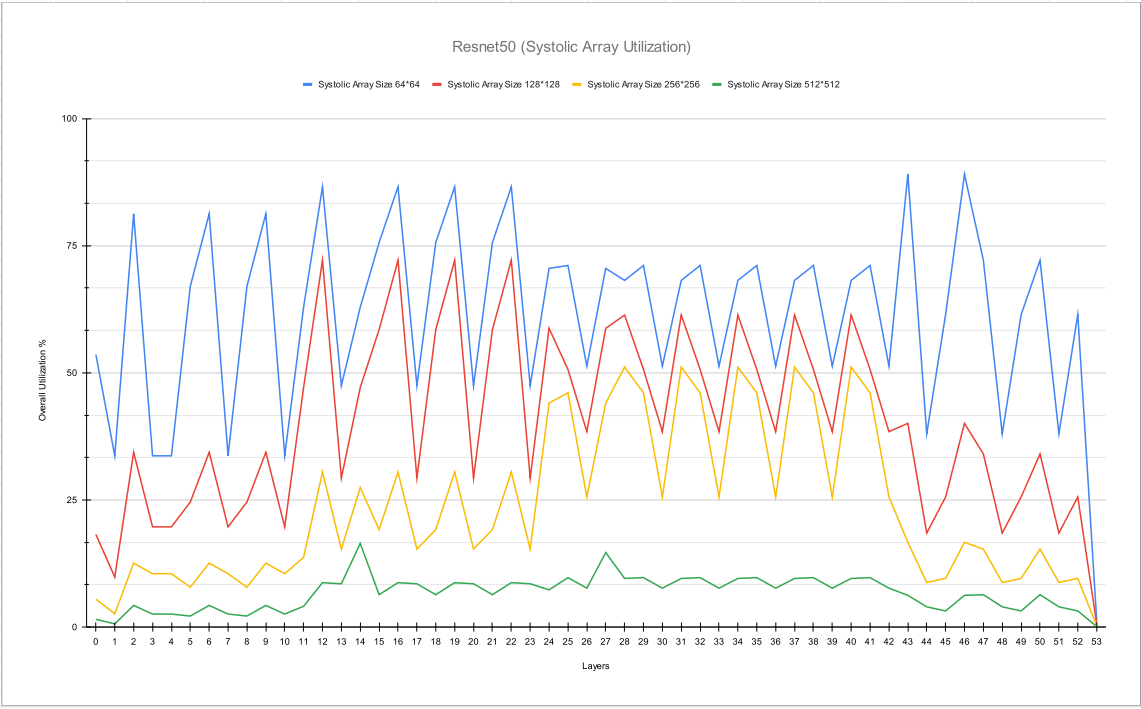
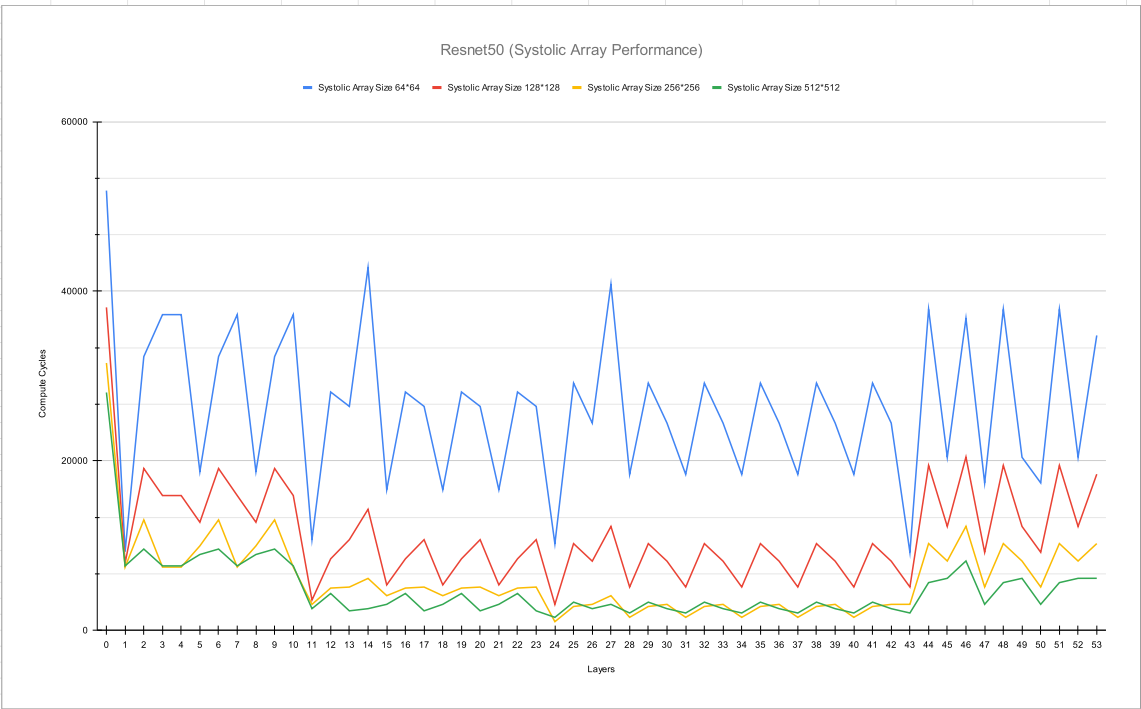
PE DIM - 64			PE DIM - 128			PE DIM - 256			PE DIM - 512		
SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 2048		
Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization
0	5579	49.54	0	2441	28.3	0	1325	13.04	0	1174	3.68
1	48599	85.63	1	15347	67.79	1	5627	46.22	1	3325	19.56
2	48599	85.63	2	15347	67.79	2	5627	46.22	2	3325	19.56
3	2291	0.98	3	1529	0.37	3	1531	0.09	3	1277	0.03
4	1947	1.16	4	1229	0.46	4	870	0.16	4	1382	0.03
5	381	0.02	5	509	0	5	765	0	5	1277	0
6	2291	1.97	6	1529	0.74	6	1531	0.18	6	1277	0.06
7	5087	1.25	7	2927	0.55	7	2463	0.16	7	1743	0.06
PE DIM - 64			PE DIM - 128			PE DIM - 256			PE DIM - 512		
SRAM KB - 4096			SRAM KB - 4096			SRAM KB - 4096			SRAM KB - 4096		
Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization
0	5579	49.54	0	2441	28.3	0	1325	13.04	0	1174	3.68
1	48599	85.63	1	15347	67.79	1	5627	46.22	1	3325	19.56
2	48599	85.63	2	15347	67.79	2	5627	46.22	2	3325	19.56
3	2291	0.98	3	1529	0.37	3	1531	0.09	3	1277	0.03
4	1947	1.16	4	1229	0.46	4	870	0.16	4	1382	0.03
5	381	0.02	5	509	0	5	765	0	5	1277	0
6	2291	1.97	6	1529	0.74	6	1531	0.18	6	1277	0.06
7	5087	1.25	7	2927	0.55	7	2463	0.16	7	1743	0.06
PE DIM - 64			PE DIM - 128			PE DIM - 256			PE DIM - 512		
SRAM KB - 1024			SRAM KB - 1024			SRAM KB - 1024			SRAM KB - 1024		
Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization
0	5579	49.54	0	2441	28.3	0	1325	13.04	0	1174	3.68
1	48599	85.63	1	15347	67.79	1	5627	46.22	1	3325	19.56
2	48599	85.63	2	15347	67.79	2	5627	46.22	2	3325	19.56
3	2291	0.98	3	1529	0.37	3	1531	0.09	3	1277	0.03
4	1947	1.16	4	1229	0.46	4	870	0.16	4	1382	0.03
5	381	0.02	5	509	0	5	765	0	5	1277	0
6	2291	1.97	6	1529	0.74	6	1531	0.18	6	1277	0.06
7	5087	1.25	7	2927	0.55	7	2463	0.16	7	1743	0.06



PE DIM - 64	SRAM KB - 2048		PE DIM - 128	SRAM KB - 2048		PE DIM - 256	SRAM KB - 2048		PE DIM - 512	SRAM KB - 2048	
Layer	Compute_Cycles Overall_Utilization		Layer	Compute_Cycles Overall_Utilization		Layer	Compute_Cycles Overall_Utilization		Layer	Compute_Cycles Overall_Utilization	
0	51869 53.58		0	38094 18.24		0	31535 5.51		0	28055 1.55	
1	9309 33.69		1	7949 9.86		1	7461 2.63		1	7601 0.64	
2	32291 81.27		2	19089 34.37		2	13031 12.59		2	9587 4.28	
3	37239 33.69		3	15899 19.72		3	7461 10.51		3	7601 2.58	
4	37239 33.69		4	15899 19.72		4	7461 10.51		4	7601 2.58	
5	18717 67.02		5	12749 24.6		5	9957 7.87		5	8945 2.19	
6	32291 81.27		6	19089 34.37		6	13031 12.59		6	9587 4.28	
7	37239 33.69		7	15899 19.72		7	7461 10.51		7	7601 2.58	
8	18717 67.02		8	12749 24.6		8	9957 7.87		8	8945 2.19	
9	32291 81.27		9	19089 34.37		9	13031 12.59		9	9587 4.28	
10	37239 33.69		10	15899 19.72		10	7461 10.51		10	7601 2.58	
11	10695 62.91		11	3569 47.13		11	3063 13.73		11	2555 4.11	
12	28115 86.56		12	8435 72.13		12	4985 30.51		12	4347 8.75	
13	26415 47.49		13	10695 29.32		13	5103 15.36		13	2299 8.53	
14	42783 62.9		14	14279 47.12		14	6127 27.45		14	2555 16.46	
15	16587 75.63		15	5361 58.5		15	4087 19.18		15	3067 6.39	
16	28115 86.56		16	8435 72.13		16	4985 30.51		16	4347 8.75	
17	26415 47.49		17	10695 29.32		17	5103 15.36		17	2299 8.53	
18	16587 75.63		18	5361 58.5		18	4087 19.18		18	3067 6.39	
19	28115 86.56		19	8435 72.13		19	4985 30.51		19	4347 8.75	
20	26415 47.49		20	10695 29.32		20	5103 15.36		20	2299 8.53	
21	16587 75.63		21	5361 58.5		21	4087 19.18		21	3067 6.39	
22	28115 86.56		22	8435 72.13		22	4985 30.51		22	4347 8.75	
23	26415 47.49		23	10695 29.32		23	5103 15.36		23	2299 8.53	
24	10207 70.54		24	3063 58.77		24	1021 44.07		24	1533 7.34	
25	29159 71.11		25	10231 50.67		25	2813 46.07		25	3325 9.74	
26	24447 51.31		26	8159 38.44		26	3063 25.6		26	2555 7.67	
27	40831 70.53		27	12255 58.75		27	4087 44.04		27	3067 14.67	
28	18399 68.18		28	5111 61.36		28	1533 51.14		28	2045 9.58	
29	29159 71.11		29	10231 50.67		29	2813 46.07		29	3325 9.74	
30	24447 51.31		30	8159 38.44		30	3063 25.6		30	2555 7.67	
31	18399 68.18		31	5111 61.36		31	1533 51.14		31	2045 9.58	
32	29159 71.11		32	10231 50.67		32	2813 46.07		32	3325 9.74	
33	24447 51.31		33	8159 38.44		33	3063 25.6		33	2555 7.67	
34	18399 68.18		34	5111 61.36		34	1533 51.14		34	2045 9.58	
35	29159 71.11		35	10231 50.67		35	2813 46.07		35	3325 9.74	
36	24447 51.31		36	8159 38.44		36	3063 25.6		36	2555 7.67	
37	18399 68.18		37	5111 61.36		37	1533 51.14		37	2045 9.58	
38	29159 71.11		38	10231 50.67		38	2813 46.07		38	3325 9.74	
39	24447 51.31		39	8159 38.44		39	3063 25.6		39	2555 7.67	
40	18399 68.18		40	5111 61.36		40	1533 51.14		40	2045 9.58	
41	29159 71.11		41	10231 50.67		41	2813 46.07		41	3325 9.74	
42	24447 51.31		42	8159 38.44		42	3063 25.6		42	2555 7.67	
43	224207 73.99		43	75759 54.74		43	19451 53.3		43	10237 25.32	
44	2551 34.57		44	1531 14.4		44	1021 5.4		44	1533 0.9	
45	2551 17.29		45	1531 7.2		45	1021 2.7		45	1533 0.45	



PE DIM - 64			PE DIM - 128			PE DIM - 256			PE DIM - 512			PE DIM - 512			PE DIM - 512			PE DIM - 512		
SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 2048			SRAM KB - 1024			SRAM KB - 4096		
Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization	Layer	Compute_Cycles	Overall_Utilization
0	51869	53.58	0	38094	18.24	0	31535	5.51	0	28055	1.55	0	28055	1.55	0	28055	1.55	0	28055	1.55
1	9309	33.69	1	7949	9.86	1	7461	2.63	1	7601	0.64	1	7601	0.64	1	7601	0.64	1	7601	0.64
2	32291	81.27	2	19089	34.37	2	13031	12.59	2	9587	4.28	2	9587	4.28	2	9587	4.28	2	9587	4.28
3	37239	33.69	3	15899	19.72	3	7461	10.51	3	7601	2.58	3	7601	2.58	3	7601	2.58	3	7601	2.58
4	37239	33.69	4	15899	19.72	4	7461	10.51	4	7601	2.58	4	7601	2.58	4	7601	2.58	4	7601	2.58
5	18717	67.02	5	12749	24.6	5	9957	7.87	5	8945	2.19	5	8945	2.19	5	8945	2.19	5	8945	2.19
6	32291	81.27	6	19089	34.37	6	13031	12.59	6	9587	4.28	6	9587	4.28	6	9587	4.28	6	9587	4.28
7	37239	33.69	7	15899	19.72	7	7461	10.51	7	7601	2.58	7	7601	2.58	7	7601	2.58	7	7601	2.58
8	18717	67.02	8	12749	24.6	8	9957	7.87	8	8945	2.19	8	8945	2.19	8	8945	2.19	8	8945	2.19
9	32291	81.27	9	19089	34.37	9	13031	12.59	9	9587	4.28	9	9587	4.28	9	9587	4.28	9	9587	4.28
10	37239	33.69	10	15899	19.72	10	7461	10.51	10	7601	2.58	10	7601	2.58	10	7601	2.58	10	7601	2.58
11	10695	62.91	11	3569	47.13	11	3063	13.73	11	2555	4.11	11	2555	4.11	11	2555	4.11	11	2555	4.11
12	28115	86.56	12	8435	72.13	12	4985	30.51	12	4347	8.75	12	4347	8.75	12	4347	8.75	12	4347	8.75
13	26415	47.49	13	10695	29.32	13	5103	15.36	13	2299	8.53	13	2299	8.53	13	2299	8.53	13	2299	8.53
14	42783	62.9	14	14279	47.12	14	6127	27.45	14	2555	16.46	14	2555	16.46	14	2555	16.46	14	2555	16.46
15	16587	75.63	15	5361	58.5	15	4087	19.18	15	3067	6.39	15	3067	6.39	15	3067	6.39	15	3067	6.39
16	28115	86.56	16	8435	72.13	16	4985	30.51	16	4347	8.75	16	4347	8.75	16	4347	8.75	16	4347	8.75
17	26415	47.49	17	10695	29.32	17	5103	15.36	17	2299	8.53	17	2299	8.53	17	2299	8.53	17	2299	8.53
18	16587	75.63	18	5361	58.5	18	4087	19.18	18	3067	6.39	18	3067	6.39	18	3067	6.39	18	3067	6.39
19	28115	86.56	19	8435	72.13	19	4985	30.51	19	4347	8.75	19	4347	8.75	19	4347	8.75	19	4347	8.75
20	26415	47.49	20	10695	29.32	20	5103	15.36	20	2299	8.53	20	2299	8.53	20	2299	8.53	20	2299	8.53
21	16587	75.63	21	5361	58.5	21	4087	19.18	21	3067	6.39	21	3067	6.39	21	3067	6.39	21	3067	6.39
22	28115	86.56	22	8435	72.13	22	4985	30.51	22	4347	8.75	22	4347	8.75	22	4347	8.75	22	4347	8.75
23	26415	47.49	23	10695	29.32	23	5103	15.36	23	2299	8.53	23	2299	8.53	23	2299	8.53	23	2299	8.53
24	10207	70.54	24	3063	58.77	24	1021	44.07	24	1533	7.34	24	1533	7.34	24	1533	7.34	24	1533	7.34
25	29159	71.11	25	10231	50.67	25	2813	46.07	25	3325	9.74	25	3325	9.74	25	3325	9.74	25	3325	9.74
26	24447	51.31	26	8159	38.44	26	3063	25.6	26	2555	7.67	26	2555	7.67	26	2555	7.67	26	2555	7.67
27	40831	70.53	27	12255	58.75	27	4087	44.04	27	3067	14.67	27	3067	14.67	27	3067	14.67	27	3067	14.67
28	18399	68.18	28	5111	61.36	28	1533	51.14	28	2045	9.58	28	2045	9.58	28	2045	9.58	28	2045	9.58
29	29159	71.11	29	10231	50.67	29	2813	46.07	29	3325	9.74	29	3325	9.74	29	3325	9.74	29	3325	9.74
30	24447	51.31	30	8159	38.44	30	3063	25.6	30	2555	7.67	30	2555	7.67	30	2555	7.67	30	2555	7.67
31	18399	68.18	31	5111	61.36	31	1533	51.14	31	2045	9.58	31	2045	9.58	31	2045	9.58	31	2045	9.58
32	29159	71.11	32	10231	50.67	32	2813	46.07	32	3325	9.74	32	3325	9.74	32	3325	9.74	32	3325	9.74
33	24447	51.31	33	8159	38.44	33	3063	25.6	33	2555	7.67	33	2555	7.67	33	2555	7.67	33	2555	7.67
34	18399	68.18	34	5111	61.36	34	1533	51.14	34	2045	9.58	34	2045	9.58	34	2045	9.58	34	2045	9.58
35	29159	71.11	35	10231	50.67	35	2813	46.07	35	3325	9.74	35	3325	9.74	35	3325	9.74	35	3325	9.74
36	24447	51.31	36	8159	38.44	36	3063	25.6	36	2555	7.67	36	2555	7.67	36	2555	7.67	36	2555	7.67
37	18399	68.18	37	5111	61.36	37	1533	51.14	37	2045	9.58	37	2045	9.58	37	2045	9.58	37	2045	9.58
38	29159	71.11	38	10231	50.67	38	2813	46.07	38	3325	9.74	38	3325	9.74	38	3325	9.74	38	3325	9.74
39	24447	51.31	39	8159	38.44	39	3063	25.6	39	2555	7.67	39	2555	7.67	39	2555	7.67	39	2555	7.67
40	18399	68.18	40	5111	61.36	40	1533	51.14	40	2045	9.58	40	2045	9.58	40	2045	9.58	40	2045	9.58
41	29159	71.11	41	10231	50.67	41	2813	46.07	41	3325	9.74	41	3325	9.74	41	3325	9.74	41	3325	9.74
42	24447	51.31	42	8159	38.44	42	3063	25.6	42	2555	7.67	42	2555	7.67	42	2555	7.67	42	2555	7.67
43	9199	89.05	43	5111	40.07	43	3067	16.69	43	2045	6.26	43	2045	6.26	43	2045	6.26	43	2045	6.26
44	37871	38.02	44	19447	18.51	44	10235	8.79	44	5629	4	44	5629	4	44	5629	4	44	5629	4
45	20415	61.45	45	12255	25.59	45	8175	9.59	45	6135	3.19	45	6135	3.19	45	6135	3.19	45	6135	3.19
46	36799	89.05	46	20447	40.06	46	12271	16.69	46	8183	6.26	46	8183	6.26	46	8183	6.26	46	8183	6.26
47	17391	72.13	47	9207	34.06	47	5115	15.33	47	3069	6.39	47	3069	6.39	47	3069	6.39	47	3069	6.39
48	37871	38.02	48	19447	18.51	48	10235	8.79	48	5629	4	48	5629	4	48	5629	4	48	5629	4
49	20415	61.45	49	12255	25.59	49	8175	9.59	49	6135	3.19	49	6135	3.19	49	6135	3.19	49	6135	3.19
50	17391	72.13	50	9207	34.06	50	5115	15.33	50	3069	6.39	50	3069	6.39	50	3069	6.39	50	3069	6.39
51	37871	38.02	51	19447	18.51	51	10235	8.79	51	5629	4	51	5629	4	51	5629	4	51	5629	4
52	20415	61.45	52	12255	25.59	52	8175	9.59	52	6135	3.19	52	6135	3.19	52	6135	3.19	52	6135	3.19
53	34783	1.44	53	18415	0.68	53	10231	0.31	53	6139	0.13	53	6139	0.13	53	6139	0.13	53	6139	0.13



PE DIM - 64			PE DIM - 128			PE DIM - 256			PE DIM - 512		
Layer	SRAM KB - 2048	Overall_Utilization	Layer	SRAM KB - 2048	Overall_Utilization	Layer	SRAM KB - 2048	Overall_Utilization	Layer	SRAM KB - 2048	Overall_Utilization
0	117962	17.63	0	108465	4.79	0	103640	1.25	0	101752	0.32
1	541241	81.95	1	320379	34.61	1	209597	13.23	1	155005	4.47
2	485639	89.7	2	133569	81.53	2	79775	34.13	2	52175	13.05
3	485639	89.7	3	133569	81.53	3	79775	34.13	3	52175	13.05
4	447119	93.91	4	117667	89.21	4	33767	77.72	4	19955	32.88
5	447119	93.91	5	117667	89.21	5	33767	77.72	5	19955	32.88
6	447119	93.91	6	117667	89.21	6	33767	77.72	6	19955	32.88
7	447119	93.91	7	117667	89.21	7	33767	77.72	7	19955	32.88
8	416591	93.47	8	116687	83.42	8	30707	79.25	8	11259	54.04
9	416591	93.47	9	116687	83.42	9	30707	79.25	9	11259	54.04
10	416591	93.47	10	116687	83.42	10	30707	79.25	10	11259	54.04
11	416591	93.47	11	116687	83.42	11	30707	79.25	11	11259	54.04
12	113615	73	12	38895	53.31	12	10235	50.65	12	5629	23.02
13	113615	73	13	38895	53.31	13	10235	50.65	13	5629	23.02
14	113615	73	14	38895	53.31	14	10235	50.65	14	5629	23.02
15	113615	73	15	38895	53.31	15	10235	50.65	15	5629	23.02
16	40831	1.25	16	24511	0.52	16	16351	0.2	16	12271	0.07
17	40831	1.25	17	24511	0.52	17	16351	0.2	17	12271	0.07
18	10207	1.22	18	6127	0.51	18	4087	0.19	18	3067	0.06

