

Test Suite 7b: Varying Machine Width, Number of Integer ALUs, and Branch Prediction for Out-of-Order Instruction Execution												
	Width	Int ALU	Int Multiplier	Memory Port	FP ALU	FP Multiplier	Prediction	Instruction Issue	CPI	Speedup	Cost	Weighted Speedup
1	1	1	1	1	1	1	taken	out-of-order	2.1593	1.0624	2210	0.4807
2	1	2	1	1	1	1	taken	out-of-order			2380	
3	1	3	1	1	1	1	taken	out-of-order			2550	
4	1	4	1	1	1	1	taken	out-of-order			2720	
5	2	1	1	1	1	1	taken	out-of-order	1.7624	1.3017	2635	0.4940
6	2	2	1	1	1	1	taken	out-of-order	1.6732	1.3711	2805	0.4888
7	2	3	1	1	1	1	taken	out-of-order	1.6732	1.3711	2975	0.4609
8	2	4	1	1	1	1	taken	out-of-order	1.6732	1.3711	3145	0.4360
9	4	1	1	1	1	1	taken	out-of-order	1.6631	1.3794	3485	0.3958
10	4	2	1	1	1	1	taken	out-of-order	1.5252	1.5041	3655	0.4115
11	4	3	1	1	1	1	taken	out-of-order	1.5124	1.5169	3825	0.3966
12	4	4	1	1	1	1	taken	out-of-order	1.5117	1.5176	3995	0.3799
13	1	1	1	1	1	1	not taken	out-of-order			2210	
14	1	2	1	1	1	1	not taken	out-of-order			2380	
15	1	3	1	1	1	1	not taken	out-of-order			2550	
16	1	4	1	1	1	1	not taken	out-of-order			2720	
17	2	1	1	1	1	1	not taken	out-of-order	1.7695	1.2965	2635	0.4920
18	2	2	1	1	1	1	not taken	out-of-order	1.6848	1.3616	2805	0.4854
19	2	3	1	1	1	1	not taken	out-of-order	1.6848	1.3616	2975	0.4577
20	2	4	1	1	1	1	not taken	out-of-order	1.6848	1.3616	3145	0.4330
21	4	1	1	1	1	1	not taken	out-of-order	1.6697	1.3740	3485	0.3942
22	4	2	1	1	1	1	not taken	out-of-order	1.5378	1.4918	3655	0.4082
23	4	3	1	1	1	1	not taken	out-of-order	1.5288	1.5006	3825	0.3923
24	4	4	1	1	1	1	not taken	out-of-order	1.5239	1.5054	3995	0.3768
25	1	1	1	1	1	1	2lev	out-of-order	1.8786	1.2212	2975	0.4105
26	1	2	1	1	1	1	2lev	out-of-order			3145	
27	1	3	1	1	1	1	2lev	out-of-order			3315	
28	1	4	1	1	1	1	2lev	out-of-order			3485	
29	2	1	1	1	1	1	2lev	out-of-order	1.5444	1.4854	3400	0.4369
30	2	2	1	1	1	1	2lev	out-of-order	1.3893	1.6513	3570	0.4625
31	2	3	1	1	1	1	2lev	out-of-order	1.3893	1.6513	3740	0.4415
32	2	4	1	1	1	1	2lev	out-of-order	1.3893	1.6513	3910	0.4223
33	4	1	1	1	1	1	2lev	out-of-order	1.4550	1.5767	4250	0.3710
34	4	2	1	1	1	1	2lev	out-of-order	1.2435	1.8449	4420	0.4174
35	4	3	1	1	1	1	2lev	out-of-order	1.2226	1.8764	4590	0.4088
36	4	4	1	1	1	1	2lev	out-of-order	1.2202	1.8801	4760	0.3950