

Table 1: ABS Time And Resizes For Given N										
	Time(s)	Resizes	Time(s)	Resizes	Time(s)	Resize s	Time(s)	Resize s	Time(s)	Resize s
	1.5		2		3		10		100	
10000000	0.190	79	0.168	47	0.144	31	0.087	15	0.087	9
30000000	0.610	86	0.396	49	0.428	33	0.340	17	0.233	9
50000000	0.962	88	0.705	51	0.590	33	0.480	17	0.380	9
75000000	1.453	90	1.229	53	0.782	33	0.663	17	0.566	9
100000000	2.130	92	1.407	53	1.398	35	0.859	17	0.754	9

Table 2: ABQ Time And Resizes For Given N										
	Time(s)	Resizes	Time(s)	Resizes	Time(s)	Resize s	Time(s)	Resize s	Time(s)	Resize s
	1.5		2		3		10		100	
10000000	0.283	78	0.250	47	0.275	31	0.173	15	0.714	9
30000000	0.889	84	0.601	49	0.799	33	1.025	17	0.912	9
50000000	1.394	86	1.102	51	0.997	33	1.205	17	1.086	9
75000000	2.084	88	1.974	53	1.243	33	1.441	17	1.326	9
100000000	3.000	90	2.205	53	2.514	35	1.688	17	1.577	9

Table 3: Time Ratio (ABS Time / ABQ time)										
	1.5		2		3		10		100	
10000000	0.674		0.673		0.522		0.503		0.122	
30000000	0.686		0.658		0.536		0.332		0.255	
50000000	0.691		0.640		0.592		0.398		0.350	
75000000	0.697		0.622		0.629		0.460		0.427	
100000000	0.710		0.638		0.556		0.509		0.478	

Table 4: ABQ Improved										
	Time(s)	ΔTime	Time(s)	ΔTime	Time(s)	ΔTime	Time(s)	ΔTime	Time(s)	ΔTime
	1.5		2		3		10		100	
10000000	0.272	-0.011	0.232	-0.017	0.203	-0.072	0.117	-0.055	0.126	-0.588
30000000	0.890	0.001	0.541	-0.061	0.602	-0.196	0.455	-0.570	0.319	-0.593
50000000	1.343	-0.051	0.965	-0.136	0.867	-0.131	0.710	-0.495	0.527	-0.559
75000000	2.014	-0.071	1.721	-0.253	1.123	-0.121	0.941	-0.500	0.864	-0.463
100000000	2.881	-0.119	1.984	-0.221	1.903	-0.611	1.193	-0.495	1.143	-0.434

Table 5: Time Ratio Improved (ABS Time / ABQ Time)

	1.5		2		3		10		100	
10000000	0.701		0.723		0.707		0.740		0.694	
30000000	0.686		0.732		0.710		0.747		0.731	
50000000	0.717		0.730		0.681		0.676		0.721	
75000000	0.721		0.714		0.697		0.705		0.655	
100000000	0.740		0.709		0.735		0.720		0.660	

Figure 1: ABS Scale Factor 1.5

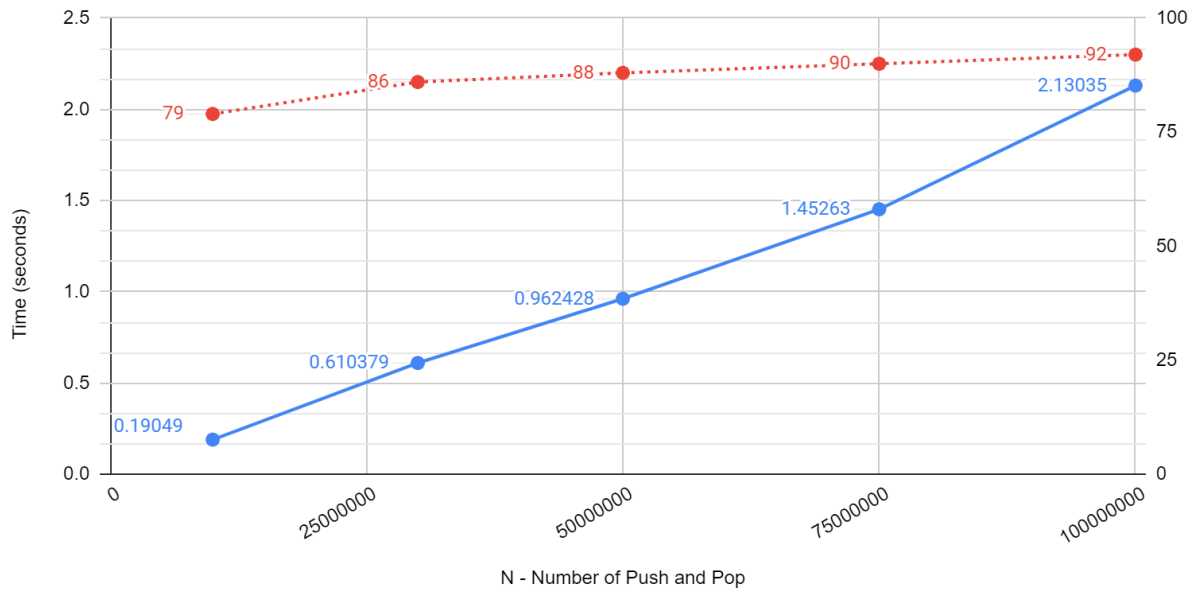


Figure 2: ABS Scale Factor 2.0

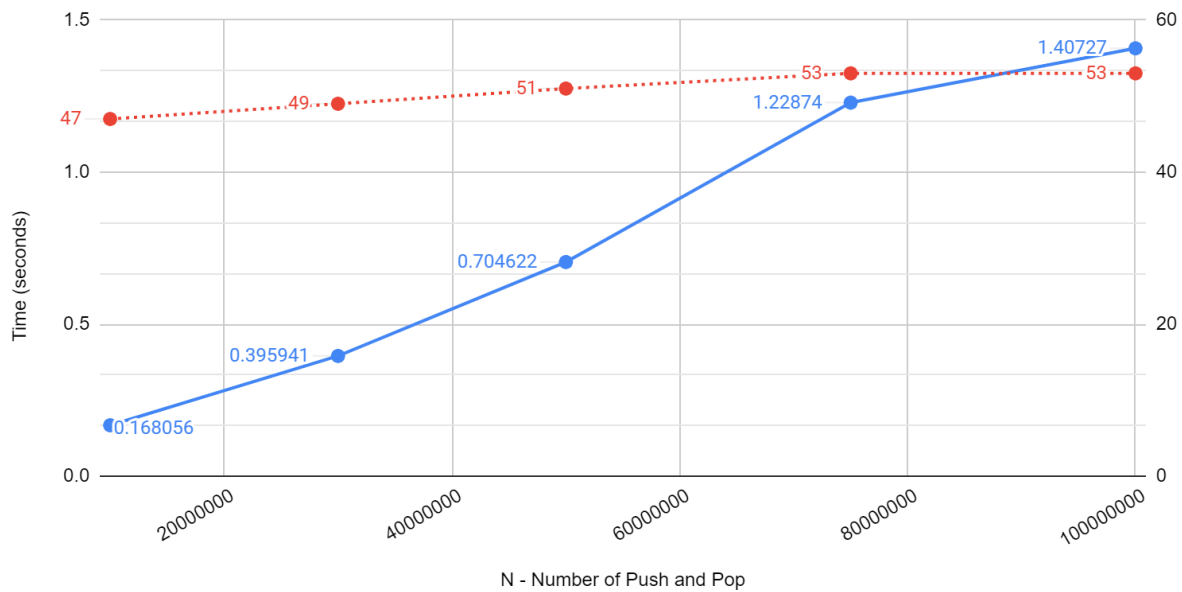


Figure 3: ABS Scale Factor 3.0

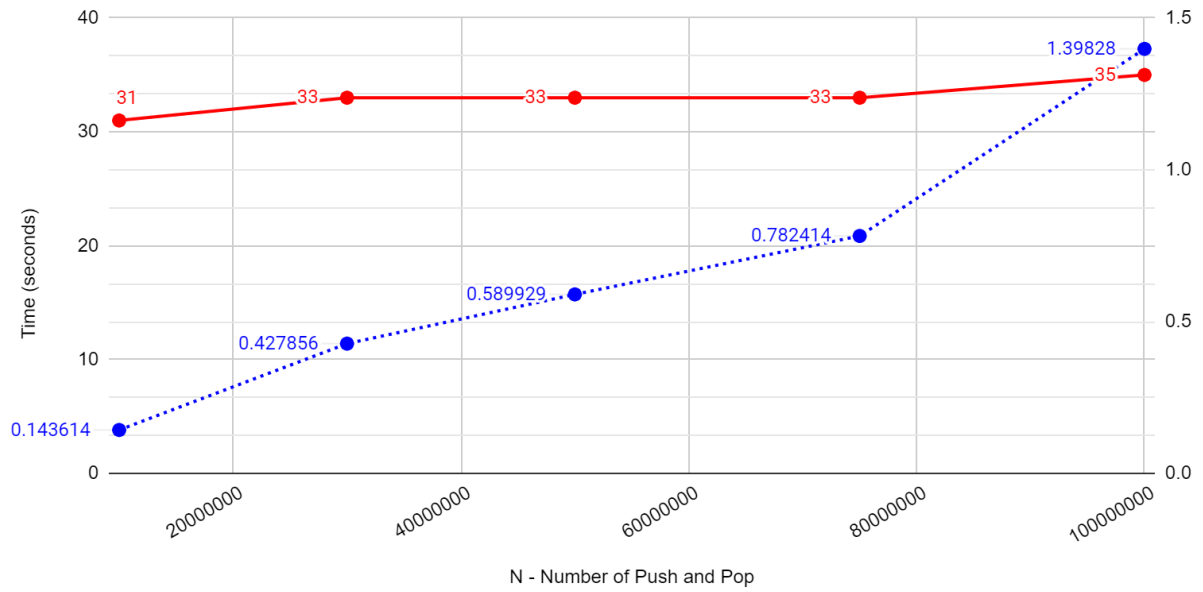


Figure 4: 10.0: ABS Scale Factor 10.0

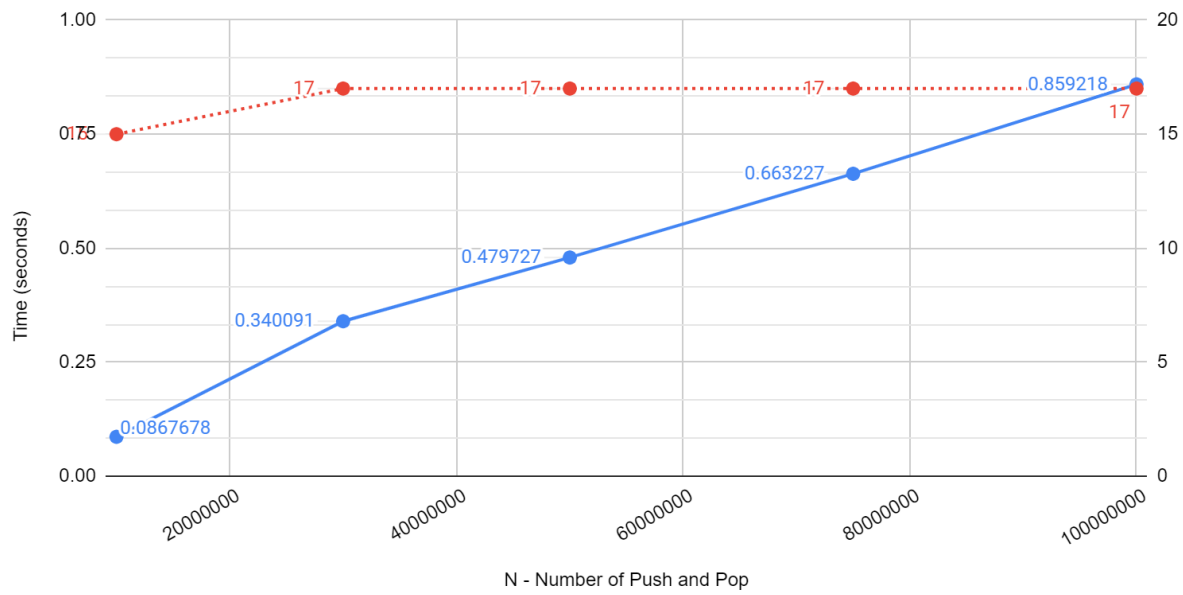


Figure 5: 100: ABS Scale Factor 100.0

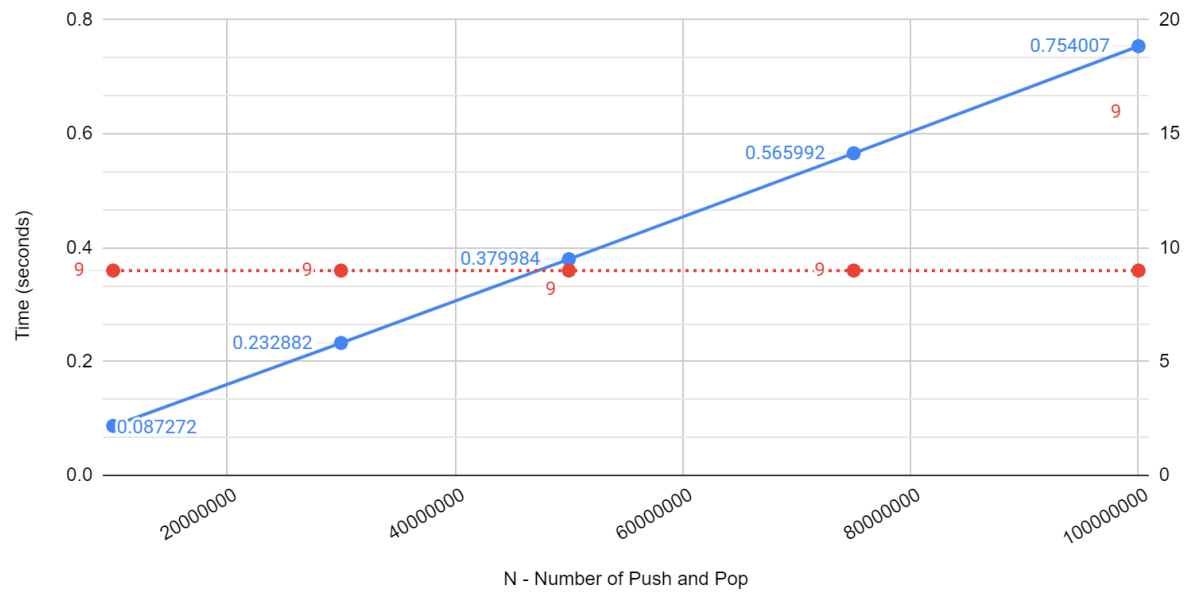


Figure 6: ABS All charts 1 graph (each color a different Scale Factor)

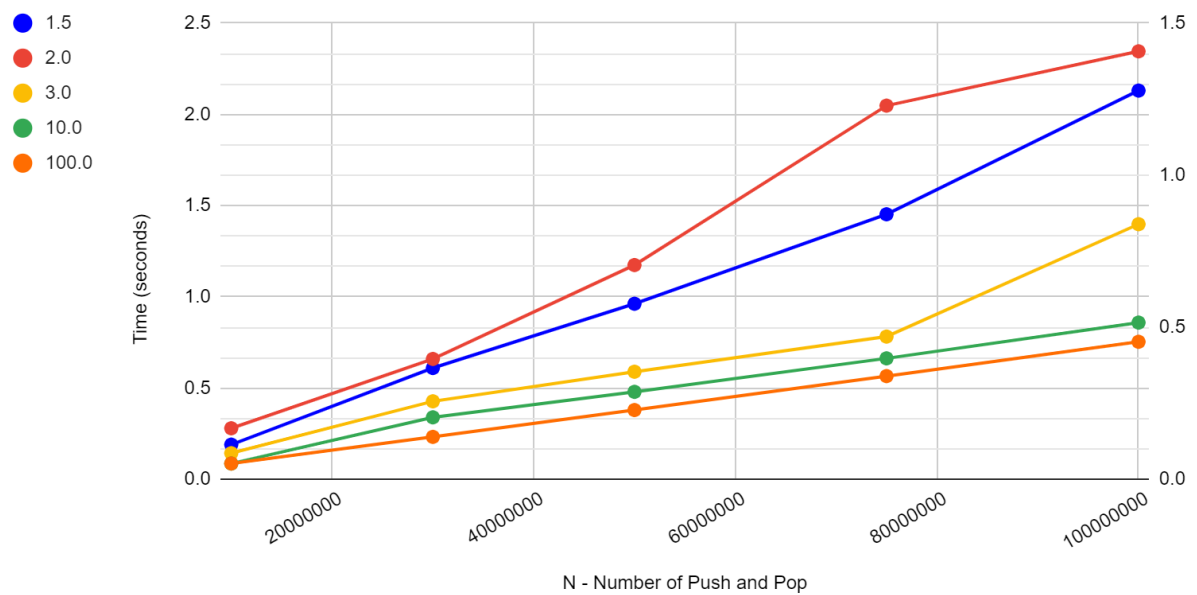


Figure 7: ABQ Scale Factor 1.5

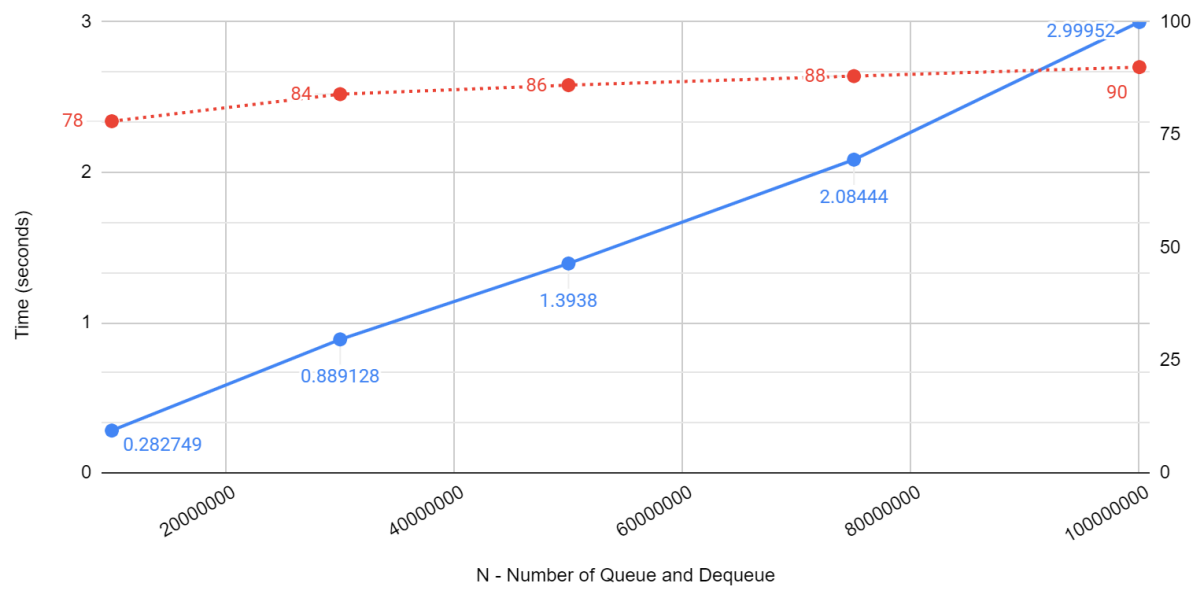


Figure 8: ABQ Scale Factor 2.0

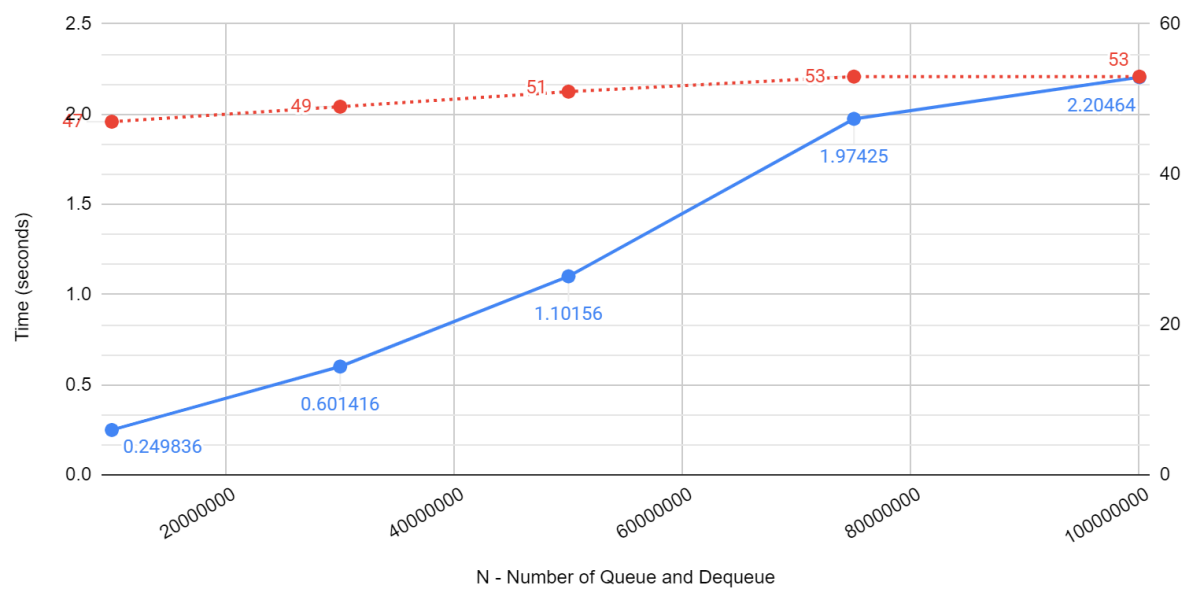


Figure 9: ABQ Scale Factor 3.0

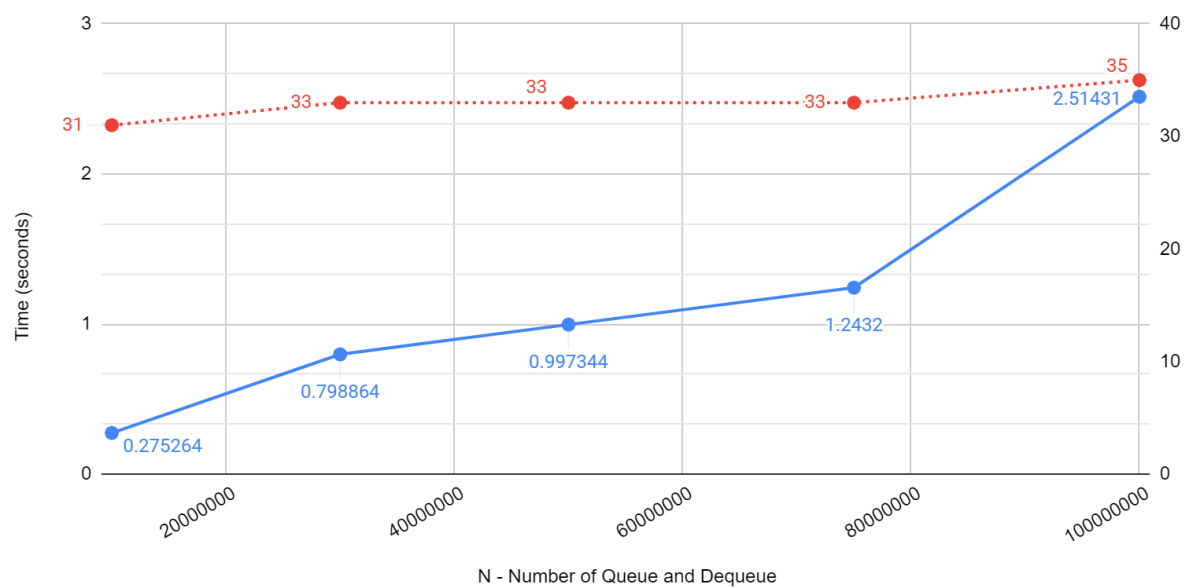


Figure 10: ABQ Scale Factor 10.0

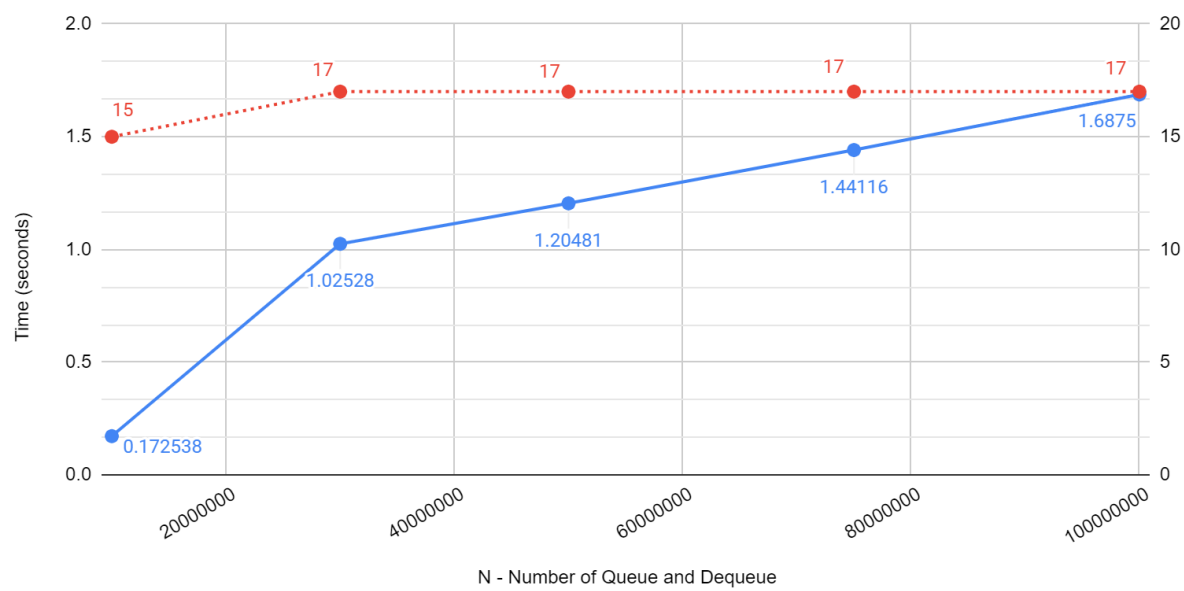


Figure 11: ABQ Scale Factor 100.0

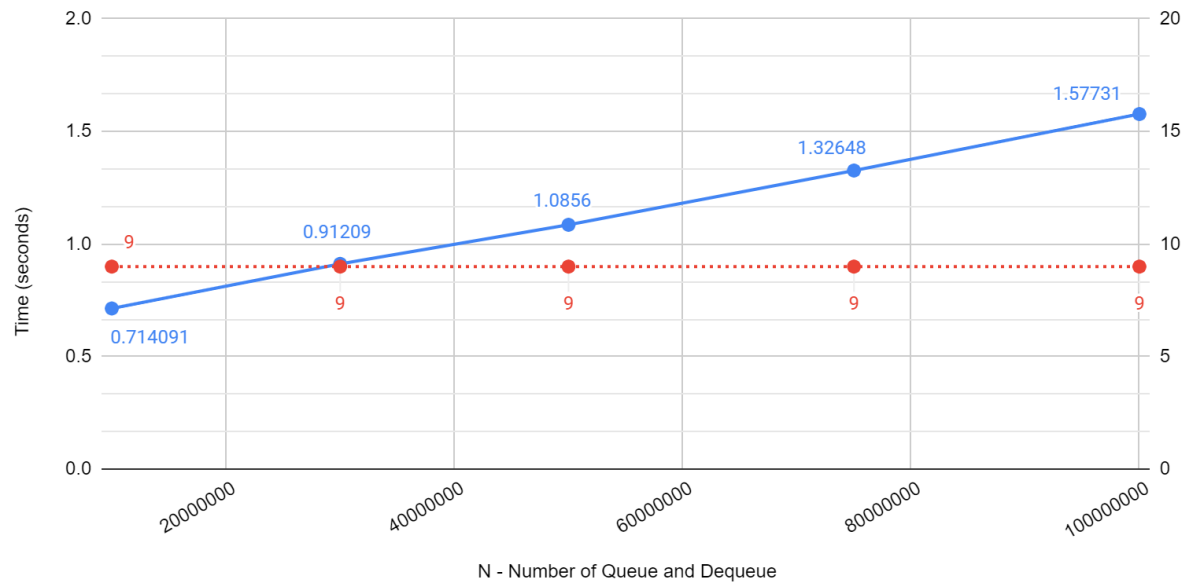


Figure 12: ABQ All charts 1 graph (each color a different Scale Factor)

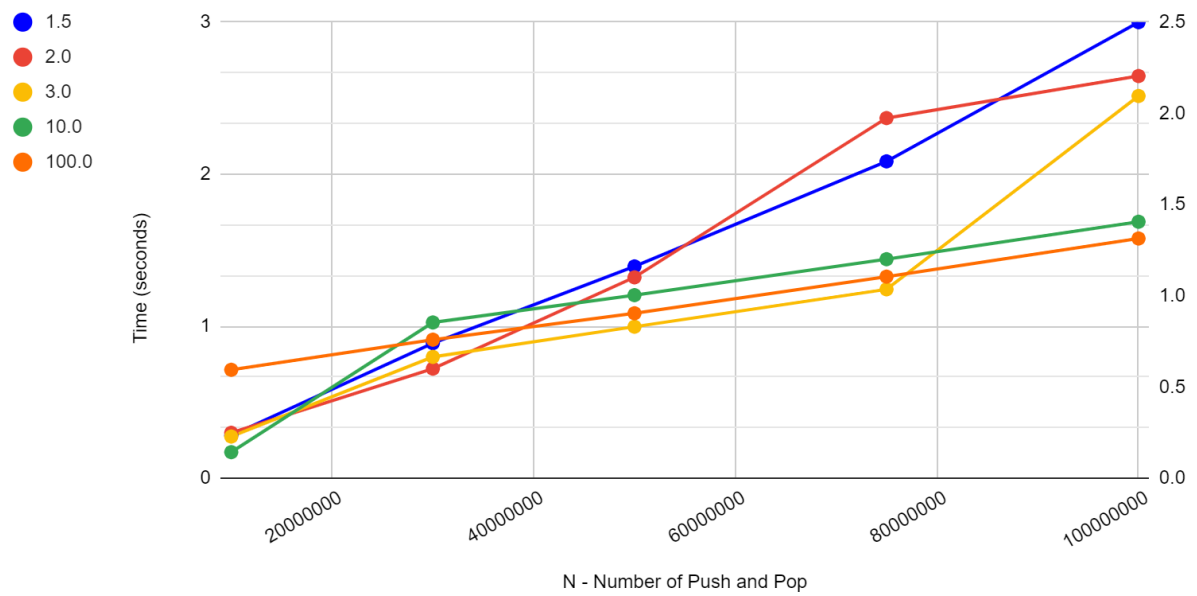


Figure 13: ABQ Improved All charts 1 graph (each color a different Scale Factor)

