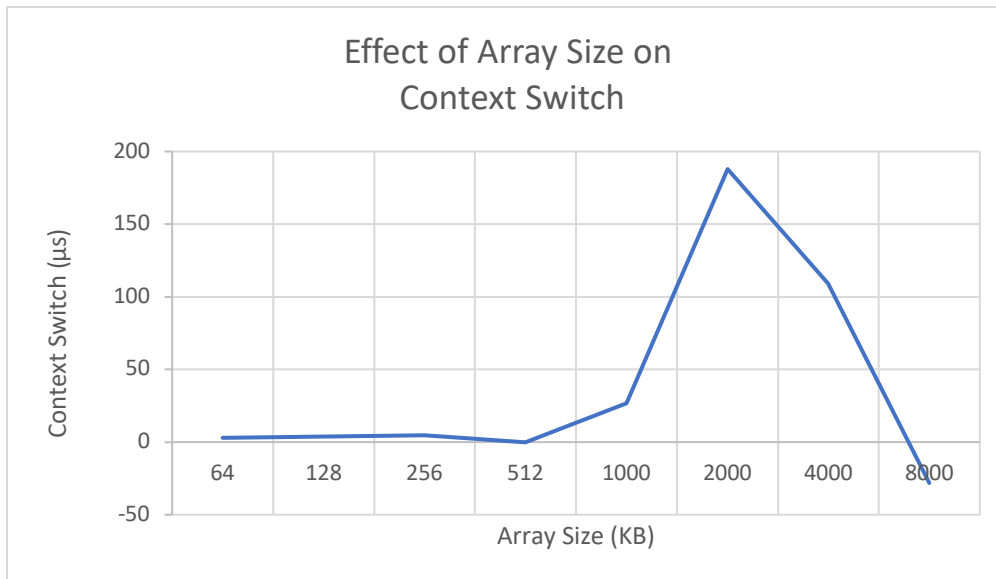


Angelo Acevedo

### Effect of Array Size on Context Switch:

size(kb)	size(b)	MeasureSingle1	MeasureSingle2	MeasureSingle3	MeasureSwitch1	MeasureSwitch2	MeasureSwitch3	MeasureSingle Avg (s1)	MeasureSwitch AVG (s2)	Cost (s2 -s1)
64	64000	9.988131	9.840772778	9.795201444	12.45076315	13.71889678	11.9993365	9.874701741	12.72299881	2.848297068
128	128000	18.23908422	17.62160978	17.770092	21.09191604	21.33903254	22.23957291	17.87692867	21.55684049	3.679911827
256	256000	38.28429278	36.70015744	39.05024178	42.36387217	42.67013311	43.3936795	38.011564	42.80922826	4.797664259
512	512000	79.13983011	80.14549811	90.62823689	81.43429594	80.69910011	87.39953133	83.3045217	83.17764246	-0.126879241
1 MB	1000000	153.3341788	155.2606418	153.370174	178.3209346	182.663112	180.7762872	153.9883315	180.5867779	26.59844641
2MB	2000000	315.9663794	316.3090077	320.7747857	481.507845	546.9999247	488.263534	317.6833909	505.590441	187.9070501
4 MB	4000000	972.9420763	905.1736749	991.7803528	1047.696819	1020.06628	1129.358679	956.6320347	1065.707259	109.0752246
8MB	8000000	2075.189914	2439.003523	2245.394318	2485.958853	2078.816055	2110.392491	2253.195918	2225.0558	-28.14011854



### Indirect Cost of Context Switch:

Measuring Cost of Context Switch using differnt stride-size						
Measure Single						
		Stride 8B	16B	32B	64 B	128 B
size(kb)	Array size(b)					
32	32000	5.97368733	6.20451033	6.06614056	6.46682833	6.62514711
64	64000	9.88267478	10.2775844	11.5246089	19.7084461	19.5883552
128	128000	17.0799534	17.8861726	22.4849259	37.9922894	39.614589
256	256000	35.1664608	38.4194859	46.2080329	84.1716261	88.4727379
512	512000	69.41564	78.1506837	113.871128	202.367313	213.044311
1 MB	1000000	128.592741	152.346695	222.781549	396.704119	425.108397
2MB	2000000	273.978404	346.196307	491.358631	887.199957	980.705515

Measuring Cost of Context Switch using varing stride-size						
Measure Switch						
		Stride 8B	16B	32B	64 B	128 B
size(kb)	Array size(b)					
32	32000	8.13210972	7.70951833	7.96454	8.04280539	8.19878472
64	64000	12.0877945	12.5040694	14.5855016	22.0287056	21.6540516
128	128000	21.5592339	23.0041813	25.7839217	41.029907	42.1084421
256	256000	39.9530716	42.927993	53.0010673	87.0207381	93.3212438
512	512000	74.1428642	85.0475174	116.619276	211.023691	233.999781
1 MB	1000000	140.879959	178.140414	254.890737	423.194119	478.070672
2MB	2000000	325.235781	463.886131	670.751518	1132.90723	1285.07557

Difference Between C2(Measured Switch) and C1(Measured Single)						
size(KB)	Stride 8B	16B	32B	64B	128 B	
32	2.15842239	1.505008	1.89839944	1.57597706	1.57363761	
64	2.20511972	2.22648495	3.06089272	2.32025945	2.06569634	
128	4.47928045	5.11800877	3.29899583	3.03761756	2.49385306	
256	4.78661078	4.50850711	6.79303444	2.849112	4.84850594	
512	4.72722417	6.89683372	2.7481474	8.6563782	20.9554697	
1000	12.2872181	25.7937185	32.109188	26.4900002	52.962275	
2000	51.2573763	117.689824	179.392887	245.707268	304.370054	

