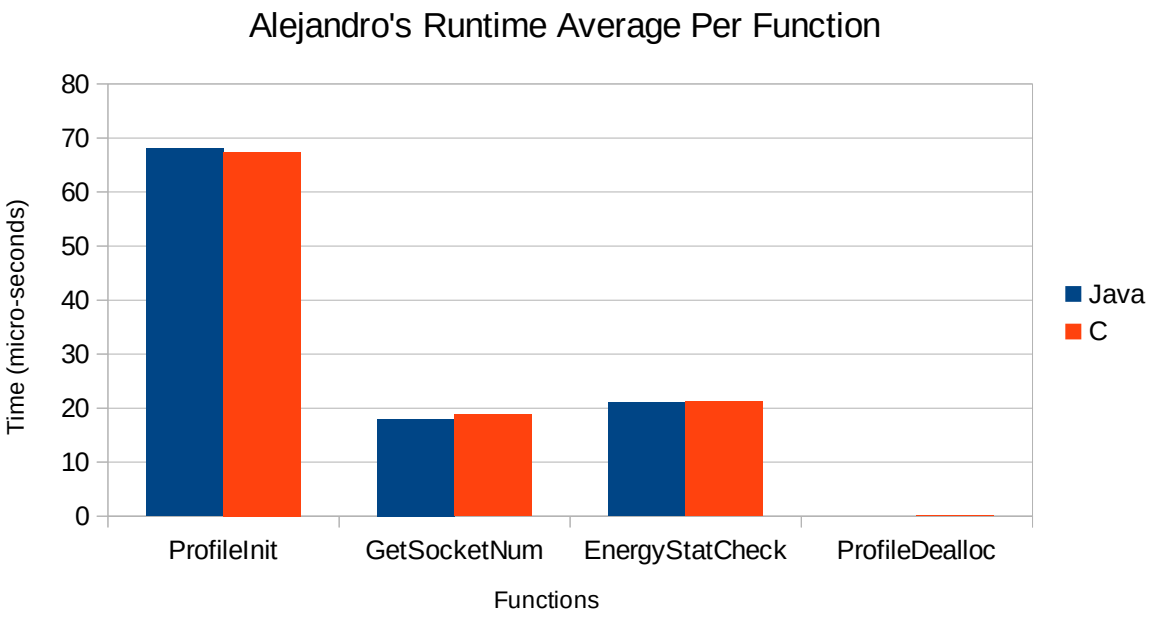
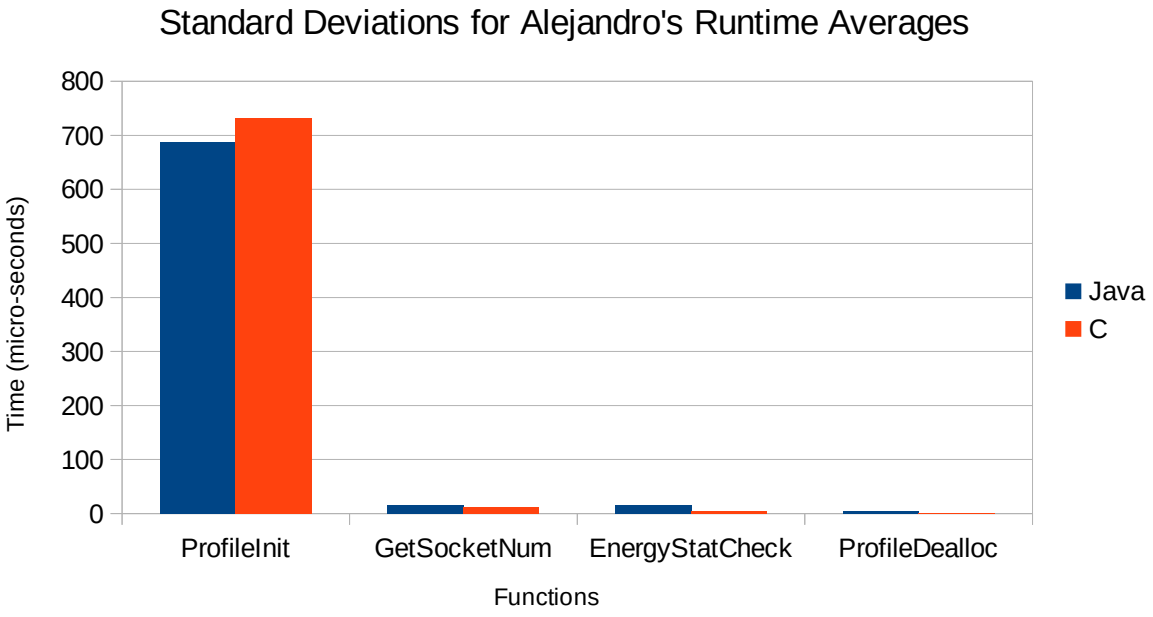
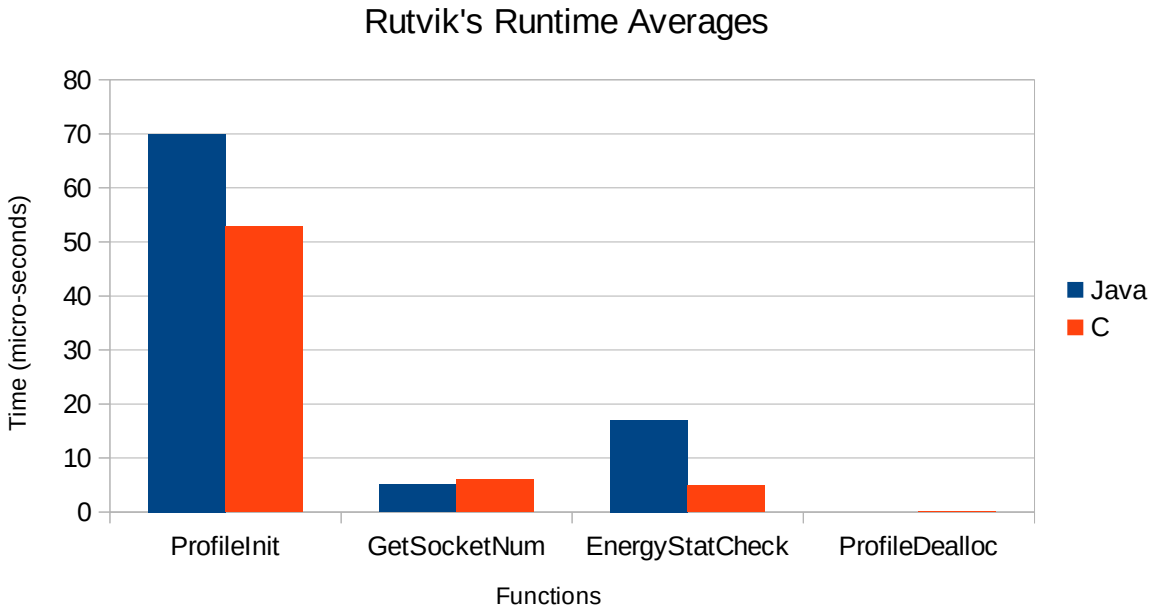
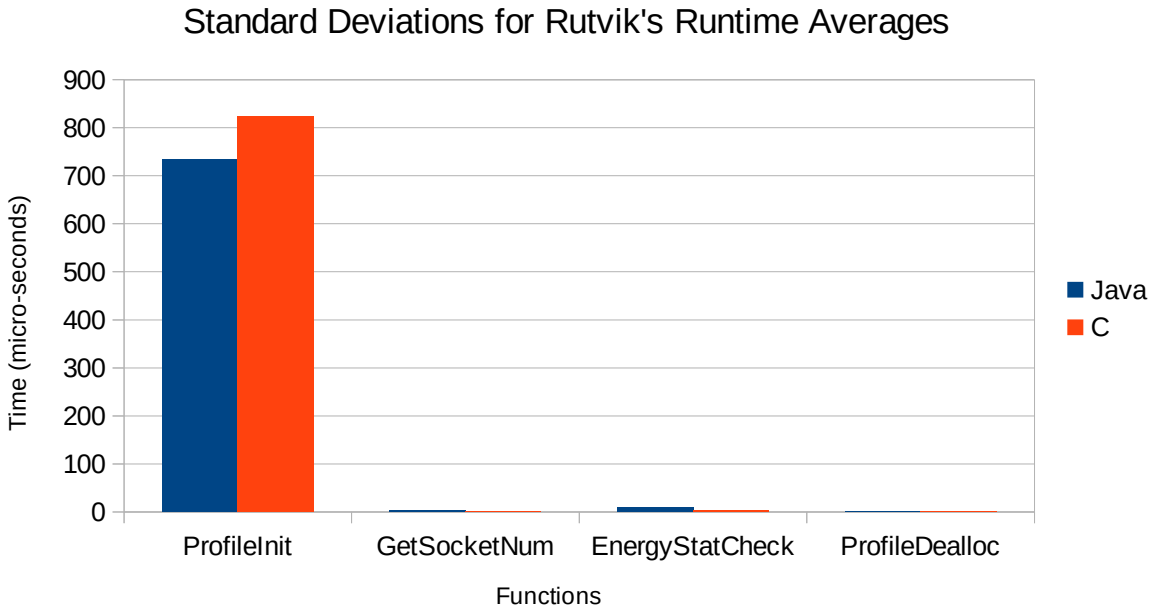
Comparing Run-Time of JNI vs Raw-C Function Calls

Below are graphs comparing average run-time and standard deviation of the native calls in EnergyCheckUtils.java









Rutvik has a faster computer than Alejandro.

Here is the raw excel table data, in case you're interested. The **Difference** field is Java - C. Notice that there are some negative values, meaning that the C version was slower for some reason, although for the runtime averages the largest negative value is -1.04, microseconds, which seems pretty negligible as far as I can tell.

Alejandro's Runtime Averages			
	Java	C	Difference
ProfileInit	68	67.37	0.63
GetSocketNum	18	18.77	-0.77
EnergyStatCheck	21	21.26	-0.26
ProfileDealloc	0	0.14	-0.14

Alejandro's StDevs			
	Java	C	Difference
ProfileInit	686.87	731.38	-44.51
GetSocketNum	16.16	11.88	4.28
EnergyStatCheck	14.9	5.28	9.62
ProfileDealloc	3.74	0.49	3.25

Rutvik's Runtime Averages			
	Java	C	Difference
ProfileInit	70	52.82	17.18
GetSocketNum	5	6.04	-1.04
EnergyStatCheck	17	4.93	12.07
ProfileDealloc	0	0.08	-0.08

Rutvik's StDevs			
	Java	C	Difference
ProfileInit	732.81	823.36	-90.55
GetSocketNum	3.32	1.58	1.74
EnergyStatCheck	9.27	2.36	6.91
ProfileDealloc	1	0.26	0.74