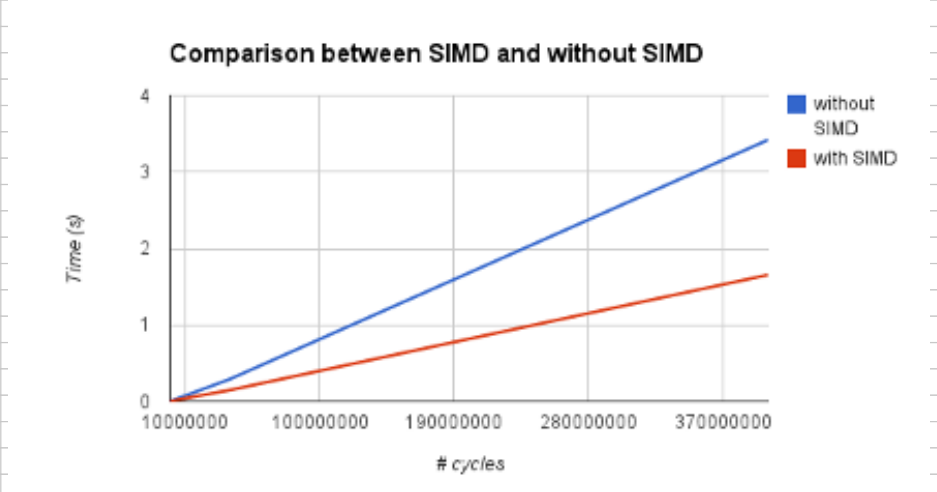
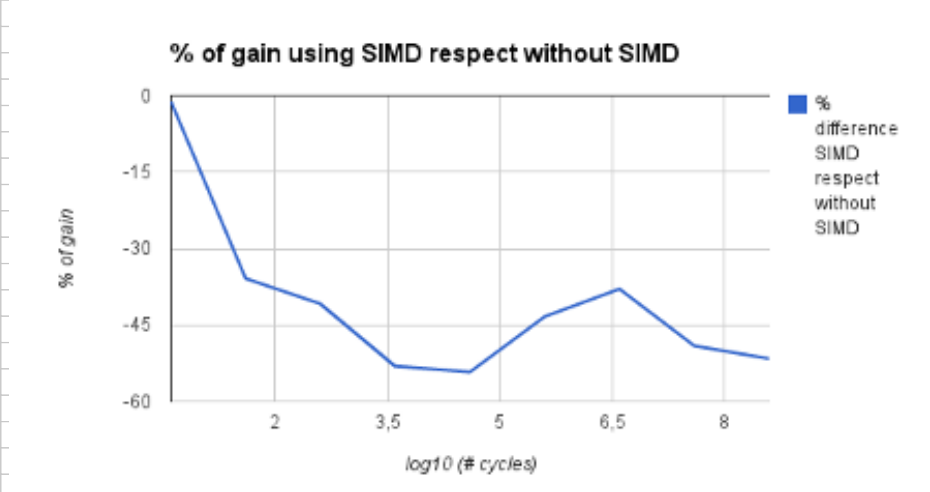
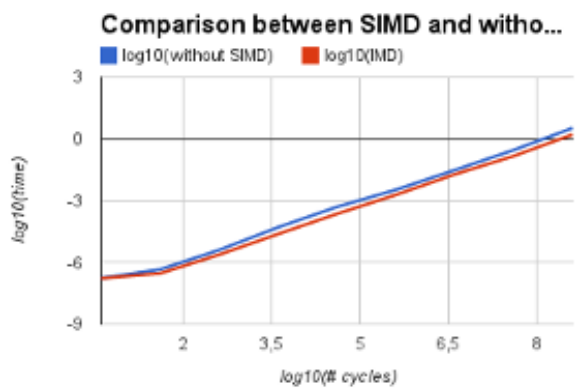
Project Xcode Simd

Operation: sqrt(m1^2+m2^2) + 0.5 in float

Comparison between	without SIMD	OSX with SIMD	log10 (# cycles)	% difference SIMD respect without SIMD
4	0,000000172	0,00000017	0,60205999132796	-1,16279069767444
40	0,000000457	0,000000293	1,60205999132796	-35,8862144420131
400	0,000003998	0,000002365	2,60205999132796	-40,8454227113557
4000	0,00005082	0,000023848	3,60205999132796	-53,0735930735931
40000	0,000500816	0,000229266	4,60205999132796	-54,2215104948724
400000	0,003398156	0,001924934	5,60205999132796	-43,3535717606843
4000000	0,03087468	0,01916215	6,60205999132796	-37,9357130179163
40000000	0,2910108	0,1481404	7,60205999132796	-49,0945353230877
400000000	3,419838	1,655066	8,60205999132796	-51,603964866172





Comparison between	without SIMD	with SIMD	log10 (# cycles)	log10(without SIMD)	log10(IMD)
4	0,000000172	0,00000017	0,60205999132796	-6,76447155309245	-6,76955107862173
40	0,000000457	0,000000293	1,60205999132796	-6,34008379993015	-6,53313237964589
400	0,000003998	0,000002365	2,60205999132796	-5,3981572102179	-5,62616885492617
4000	0,00005082	0,000023848	3,60205999132796	-4,29396533928565	-4,62254803697543
40000	0,000500816	0,000229266	4,60205999132796	-3,30032180479621	-3,63966034608657
400000	0,003398156	0,001924934	5,60205999132796	-2,46875668774359	-2,71558415650727
4000000	0,03087468	0,01916215	6,60205999132796	-1,51039753494538	-1,71755576452931
40000000	0,2910108	0,1481404	7,60205999132796	-0,53609089316746	-0,82932648702641
400000000	3,419838	1,655066	8,60205999132796	0,534005533725012	0,21881531706296