Jake Indursky and Alex Salvatore Homework 7 Lab Notes November 15, 2014

Starting Point:

For this assignment, we will be profiling the Universal Machine project for which we were partners. To the best of our knowledge, our UM is in full working condition.

Time Table:

sandmark

j7.157

	benchmark	time 	Instru- ctions (x 10^10)	Rel to start 	Rel to prev	Improvement
	midmark	6.676	4.309732	1.000	1.000	This is the starting point
	advent	61.731		1.000	1.000	
	sandmark	169.629		1.000	1.000	
	midmark	2.071	1.831590	0.310	0.310	compiled with optimization
	advent	18.768		0.304	0.304	and linked against -lcii-01
	sandmark	51.320		0.303	0.303	
	midmark	1.658	1.7398387	0.248	0.800	compiled with opitimization
	advent	14.885		0.241	0.793	and linked against -lcii-02
	sandmark	40.750		0.240	0.794	
	midmark	1.476	1.5509263	0.221	0.890	put switch case from
	advent	13.237		0.214	0.889	instruction interface into
	sandmark	36.510		0.215	0.896	the emulator
	midmark	0.650	0.3279071	0.097	0.440	removed bitpack interface
	advent	6.094		0.095	0.460	from emulator entirely
	sandmark	15.971		0.094	0.437	
	midmark	1.971	0.9208731	0.295	0.940	only unpacked register
	advent	19.120		0.310	1.042	values needed for given
	sandmark	48.917		0.288	0.937	instruction.
	midmark	0.624	0.3355535	0.093	0.362	removed static inline
	advent	5.695		0.092	0.345	functions for each
	sandmark	15.466		0.091	0.362	instruction.
	midmark	0.340	0.2470171	0.051	0.545	inlined getword
	advent	3.655		0.642	0.642	
	sandmark	8.288		0.049	0.536	
	midmark	0.306	0.2263393	0.046	0.900	inlined emulator
	advent	3.402		0.055	0.931	
	sandmark	7.491		0.044	0.930	
	midmark	0.298	0.2264787	0.045	0.974	inlined programloader
	advent	3.200		0.052	0.941	
	sandmark	7.436		0.044	0.993	
	midmark advent	0.287 3.089	0.2259457	0.043 0.050	0.963 0.965	added local variables in memory.h

iθ.042

iθ.962

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