15-740: Computer Architecture
Milestone Report:
Speculation and Cache Problems in STAMPede

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The goals of our project have not changed since our proposal. Unfortunately, progress has been significantly slower than we originally intended. All of us have read the relevant papers about TLDS and set up the simulator and CVS repository. It took us significantly longer to set up and understand the general workings of the cello simulator than originally expected. At this point, little code has actually been written.

We have not met our milestone of having largely complete code and entering a testing phase. We believe that we can definitely implement the victim cache, and will probably be able to implement suspending violation. We do not think that we will be able to explore the interaction between these two techniques.

At this point, we believe that we now have all the resources we need. Several benchmarks were just made available to us by Greg Steffan, and we plan to use those for all of our testing.

Our revised schedule is as follows:

Date	Tasks
Nov 21	Scripts to easily compare victim cache vs no victim cache and suspending violation vs. no suspending violations on several interesting benchmarks complete
Nov 22	
Nov 23	
Nov 24	
Nov 25	
Nov 26	Initial code for victim cache complete
Nov 27	Initial code for suspending violations complete
Nov 28	Thorough testing of and obtaining results for the victim cache
Nov 29	Thorough testing of and obtaining results for suspending violations
Nov 30	Analysis of the data
Dec 1	Rerunning/analyzing any cases where code bugs were found
Dec 2	Prepare final write up
Dec 3	Prepare poster
Dec 4	Project Done!