Project Plan

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### Project Description and Scope

The objective of this project is to create a multicore scratchpad and cache hybrid simulator. This will be done using conventional Software Engineering design techniques and methodologies.The cache portion of the design will be taken from an online premade open source design and the scratchpad will be created and integrated with the cache simulator. The code will be written in C since that is the language that the cache simulator that will be used is written in.

### Project Deliverables

* Project Plan
* Requirement Specification
* Design Documentation
* Test Plan
* Test Report
* User Manual
* Scratchpad and cache hybrid simulator

### Software Development Model

The software development model for this project will be the Waterfall Life Cycle method. This means that the application will be designed in a linear manner, starting with documentation and design, then leading to coding and testing, and eventually having a completed product.

### Project Estimation

The project as a whole should only take until mid April to complete and will involve only designing a multicore scratchpad that will be integrated with an already made multicore cache simulator. By March 8th, the project website, project plan, requirements specification, and design document will all be completed and implementation of the design will begin. By April 12th the implementation and test plan will be completed. By April 26th the user manual and entire project will be completed.

### Stakeholders

* Clients: Dr. Yu Liu, EE 368 Class
* User groups: hardware designers, code optimizers

### Quality Control

The quality control will be based on the requirements specification document. We will use the requirements specification document to guide us through the design and implementation process to ensure that all features of the product are met. Using the requirements specification document, we will create a separate document that breaks down the requirements into a table to simplify viewing and to allow us to track the progress on each requirement and to mark each one done when completed.

### Configuration Plan

The configuration of the system will be as simple as possible to allow users and developers the ability for easy modification. Portions of the project will be modularized to allow for future modification. Settings that affect the core functionality of the project will not be directly accessible by the user. However, all settings will be available for modification in the source code.

Throughout the design and implementation phase of this project, all code will be uploaded to Github as progress is made so that there is version control for the product and all the code with be in one common location. Github will allow each developer to work simultaneous and to be able to work off of one another’s new code.