

# Status Report March 29th

jmcamero

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## 1 Major Changes

Finished the smaller project that I was working on, moving on to work on more "research question" based tasks, two of which are contenders for the question for this class.

## 2 Accomplishments

Finished verifying the Btree model, no longer contains any assumptions or timeouts (also much cleaner and easier to follow).

## 3 Looking Ahead

Over the next two weeks I should start looking into how z3's verification process works, preferably look into the scripts Parno's previous student wrote to test it. Most likely I will be choosing to pursue the other question, but it would be best to look into this before throwing it out. I should also work on implementing the new daphny features. I have been working on this, but now that I have the other tasks complete I can focus fully on this.

## 4 Revisions

There are two possible questions now, one from the previous meeting and one from a meeting I had with my research team. The first, determining volatility in z3's verification, I brought up to professor Parno and found that he thought it was an interesting idea but he has had bad experience with that same question in the past. The second, implementing new daphny feature and seeing what research is enabled by it, the group believed would be the most reasonable.