Project Milestone 6

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1 Progress Report

I met up with my professor again. We discussed how best to test my code on star exec due to my difficulty in finding out how to. In the beginning, I found that my cb changing did not work as intended, so I must figure out how to go around that. On the other hand, I have made multiple starexec run/build files that work as intended to allow me to largely automate the creation of zip files, creation of run configurations, etc.

I will attach some results to the website, and also hope to show you some in our meeting. However, I will need to make some modifications to the actual yalsat code again soon. I will discuss with my mentor in our next meeting how to optimize towards a certain value, and see if it indeed makes it run faster than the base yalsat.

Some ideas I have been brainstorming are using a temperature gradient like system, where we start with large entropy and slowly turn it down until we can converge on a number for the optimal cb. While this could work, we run the risk of local optimums again.

However, I do believe this is a good starting point, and I can look towards changing the yalsat code to reflect this.

Of course, should this fail, I can always just introduce restarts, or think about using beam-search or some variant of that in order to have multiple nodes reach an optimal cb. This could work, however, I will need to talk to my mentor more about this.

2 Reflection on Initial Plan

I may have to push back a lot, but after discussion with my mentor, I have a very strong grasp on where to proceed. My initial plan may have been too ambitious, and I should have visited my professor earlier.

Major Changes:

I have a strong idea on how to proceed. First, I will create a counter for the number of flips. Then I can measure if it is stuck or not. Then, I can create the random selection. I need to make sure I can measure the number of switches required.

Meeting your Milestone:

I have not met my milestones for this week due to spring break. However, given my new direction, I am sure I can make more progress.

Surprises:

No further surprises.

Revisions to your 07-400 milestones:

I may have to push back many of the milestones.

Resources needed:

I do not need any further resources.