Status Report #5

Alex Gotsis (agotsis)
Wannabee Larabee - Team A3
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Accomplishments

This week I focused on proving the capabilities of the new vector extension enabled compiler, and along the way found that a submodule initialization error resulted in the wrong extensions being built. This was in fact rectified, but there was some additional debugging required in order to get the correct build done. I spend a long while reading the risc-v vector spec, and understanding how this new to me kind or architecture works. The spec is also currently being actively worked on as well, so this also involves deciding if the changes currently being worked on are worth incorporating into our [forked version of the spec](#).

Schedule

I do believe that we are still on schedule. My steps for the next week will be to actually get to validating that the compiled version does indeed spit out vector instructions when asked. We also still need to work a little bit more as a team on what our benchmarks will be, and I need to get to work on preparing those. It is exciting that we have some of the cores that we have written passing correctness tests even if it is not passing them quickly.

I also do want to note that in this week I will need to spend a fair bit of time working on the tech for Greek Sing, as I am the lead sound engineer in charge of 10 or so 10 minute long musicals put on by Greek organizations to raise money for charity.