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Friday 9/28 7:30 to 9:30

We worked out basic functionality. We decided on accumulator architecture and hashed out the very basics of the language. We wrote out pseudocode for the algorithm we'll implement and brainstorm commands that we'll need sooner or later. We planned to reconvene on Saturday afternoon.

Saturday 9/29 8:00 to 9:30

I wrote the assembly code for the outer function of the Euclidean algorithm and commented it heavily with the assumptions I made so we could review thsoe assumptions during our meeting.

12:15 to 1:45

We went through my code discussed the issues I came across. We discussed conventions that I used and whether to keep them. We figured out what instructions were of what type. We did documentation. We decided that Matthew would write code snippets, Maura would continue documentation, and I would continue working on assembly. We planned to reconvene Sunday afternoon.

Sunday 9/30 4:00 to 5:00

We discussed problems Matthew encountered while writing snippets. We proposed another accumulator to make up for them. I left early because I'm not feeling well.

Monday 10/1 10:45 - 11:15

We came to office hours to discuss problems we've encountered. We spent most of the time discussing options for the accumulators.

7:00 to 7:45

We decided to go with a mix of our two solutions because it gives us a little novelty and a little familiarity at the same time: two accumulators and the ability to switch between them. We decided to keep sub because making the second accumulator negative before adding it would be annoying. We decided to use signed integers so it would be consistent with the (presumably signed) integers in the accumulators. We fleshed out commands and calling conventions and delegated tasks.

7:45 to 9:15

I wrote gcd(a, b) in assembly and updated relPrime to reflect our recent changes.

Tuesday

We decided not to meet because of employer events.

Wednesday

We met at the office during the class time and agreed to reconvene after the chaos of the carrier fair died down. We agreed to write RTL and discuss at our next meeting.

Thursday 10/4 9:00 to 9:15

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I wrote steps for the last 6 commands.

Friday 10/5 9:00 to 9:45

We read off what we had written during the carrier fair. We discussed RTL and drew tentative block diagrams. We agreed to start meeting at specified times; we felt we'd been too vague with our starts and were losing time that way. We plan to discuss whether we have A & B regs, at, or all three, along with how we want to do I/O and our shopping list. We plan to meet again at 9:30 to 10:30 in the morning and 7:30 to 9:00 on Saturday night.

Saturday 10/6 9:30 to 10:30

We discussed our to do list, made state diagrams by ourselves, and discussed two of five state diagrams together. We planned to reconvene at 7:30. I wrote on the board as the others read off their commands to me. We kept a list of the control bits we needed. I was a little worried that we weren't far enough ahead to keep from falling behind in later stages.

5:00 to 5:20

I searched in the book for helpful information, but wasn't very successful. 7:30 to 9:00

We discussed the remaining command types, began typing them up, and started a tentative diagram of our hardware. It developed that my gcd and relPrime documents had never been translated into machine code. I thought this was very odd; I specifically remember asking Ben to do it and getting confirmation that he would. He did it tonight. I double-checked that everything from the current milestone was under way; it seemed to be. We decided to replace our flagbit with a decoration.

Sunday 10/7 1:30 to 2:00

Since I had been the one writing on the board for the earlier meetings, I didn't have a chance to type up my RTL. I did that now. I made a note to discuss the RTL of load and store with my group because we forgot about it last time. I tried to copy spek for most of the procedure, but we had a value that I didn't understand there; I made a note of that, too.

4:00 to 5:00

We tied up loose ends in our RTL descriptions and tables. We decided to make primary memory the first 2^8 addresses and to say you had to use shelly to access the rest. We're not sure what testing is supposed to look like. We discussed todos for the rest of the milestone. We decided to do interrupts for I/O and we got the

Status as of 4:37:

We have an RTL description of each individual instruction. Maura is putting together a chart with the rtl for jump, arithmetic, compare, swap, load, store, and stack instructions.

We have a list of generic components under "shopping list". It contains input, output, and control signals. We specify the number of bits in the control signals on

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the next page. The input and control signals are followed by explanations of what they do. We have descriptions of what RTL component each item implements.

Matthew is working on a bubble graph that will be our test to verify that our RTL

works.

We will wait until the end to double check our state diagram and add a list of changes since last time.

Maura is keeping our design journal up to date.

We are each responsible for our own personal journals.

Our jobs for next time:

Ben is translating the Euclidean algorithm into hex (which is late from the last deadline).

Maura is finishing RTL charts and a table version of the state diagram. Matthew is doing lab 7.

I am checking the hex for Euclid's algorithm when Ben is done. I am checking that each step moves data from a reg to a reg when Maura is done. I am doing lab 8 (may ask for help) and going to office hours to ask about testing and the rising clock edge issue.

Monday 10/8

1:20 to 1:35

I came to office hours to ask questions.

Note: I told Ben and Maura to email/dm me when they had their jobs done so I could check them, but they didn't by Tuesday morning. Maura's boyfriend was in the hospital.

Tuesday 10/9

9:00 to 9:45

Matthew and I started writing tests. Ben came and told me that he had stopped working on the assembly to machine code chart because he had a question about the assembly code. I told him to @ me in the groupme next time and we worked the problem out quickly (I'd forgotten a jimm inst). Matthew and I continued testing and Ben continued with the assembly to machine code. (I think Maura was with her boyfriend.) We plan to reconvene tomorrow during the class time after the meeting.

1:25 to 2:30

I checked that everything but the journals for the milestone was pushed. (I didn't want to open my teammates' journals.) I made my journal into a pdf and pushed. I started lab8.