

Group 1: Phase 6

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Contents

1	Repository Information	1
2	Progress Report	1
3	Work Log	2
3.1	Michael Musa	2
3.2	Adam Mertzenich	2
3.3	Kritib Bhattarai	3

1 Repository Information

Below you will find our repository URL, hosted on GitHub, as well as the revision number and date of our final commit for this phase of the project.

URL	https://github.com/mertad01/vm252-project
Revision	
Date	

2 Progress Report

This phase of the project went well. Thanks to our efforts in the previous stage of the project we already had the running, pausing, continuing, and single-step features working. We also had previously implemented a load program menu which loaded a new object-file into the vm252 memory. Having this groundwork laid already made the rest progress smoothly. Because much of the work had already been done by certain group members everyone did not have to work as much individually on this phase.

To display the contents of memory as the program runs we used a JTable. JTables have TableModels which represent the data stored within them. We wrote an extended AbstractTableModel which represents our virtual machines data within the table. Each cell represents a byte of memory as a hex value converted to a string. Using the AbstractTableModel will allow us to further extend the functionality of our program by changing how the data is displayed, which will be useful for implementing future debugging commands.

The only serious issue encountered, and solved, was making sure the table was always up-to-date. Because reinitialize the program would recreate the program memory from scratch our table model would be showing outdated and destroyed bytes. We had to change how opening new files worked to not create a whole new byte[] array. The table also needed to be updated automatically when changes were made which was solved by having our ProgramFrame execute `vm252TableModel.fireTableDataChanged()` when it observes that the VirtualMachine252 model has changed.

3 Work Log

3.1 Michael Musa

Date	Hours Worked
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Total:

3.2 Adam Mertzenich

Date	Hours Worked
11/20/21	11:30am-04:30pm
11/20/21	07:00pm-11:30pm
11/21/21	09:00am-09:30am
11/21/21	02:00pm-05:00pm
Total:	~13

3.3 Kritib Bhattarai

Date	Hours Worked
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Total: