

Team Powerpuff report

CSS 422 - Vu Dinh and Alejandro Alfaro

Date: Nov 21 2014
To: CSS 422, Fall 2014
From: Vu Dinh and Alejandro Alfaro
Subject: Weekly team report #4

Work Completed:

- Finished decoding <ea> for MOVE instruction.
- Finished acquiring key comparison values for <ea> of all opcodes. We're going to use these values and MOVE's decoding "code skeleton" to write the decoder for the rest of the opcodes' <ea> within next week.
- Found a promising alternative to decode opcodes, i.e. chop the instruction word into 4-3-3-3-3 chunks of bits.
- Experimented with different ways to do the "chopping"; right now bit rotation/shifting are our best candidates.
- Drew a more detailed plan for decoding MOVE's <ea> (see bottom for flowchart).

Problems encountered:

- There have not been any unanticipated problems. This week has been mostly busy work.

Work scheduled for next week:

- Decode <ea> for at least half the opcodes.
- Incrementally add support for more opcodes decoding.
- Continue to unit-test and integration-test our code.

Self-evaluation: The planning work is zooming along nicely. We've split up the work in halves and independently completing them. Given approximately 2 weeks left and us having only busy work left, I'd say we're right on track.

Detailed flowchart for decoding effective addresses

The full-sized image is submitted together with this docx file.

