CS385 – CPU Project

Robert Rotaru, Bryan Bigelow, Anthony Cerritelli

# Progress Report 1

## Tasks

**Template (16-bit)**

* CPU Template (16-bit) – Rob, Tony

**Extended ALU (16-bit)**

* 16-bit ALU – Rob
  + Testing – Rob
* Gate Level 4x1 and 2x1 Mux – Bryan
  + Testing – Bryan

**Register File (16-bit)**

* 16-bit Registers – Bryan, Tony
  + 16-bit Extension (Full) – Tony
  + 16-bit Flip-Flops - Bryan
  + Testing - Tony
* Gate Level 4x1 Mux – Bryan
  + Testing – Bryan

**Test Program (16-bit)**

* 16-Bit Translation – Bryan
* Testing – Tony, Rob

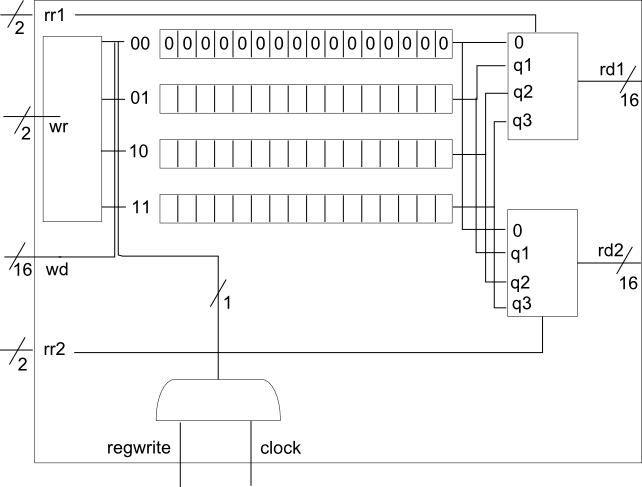
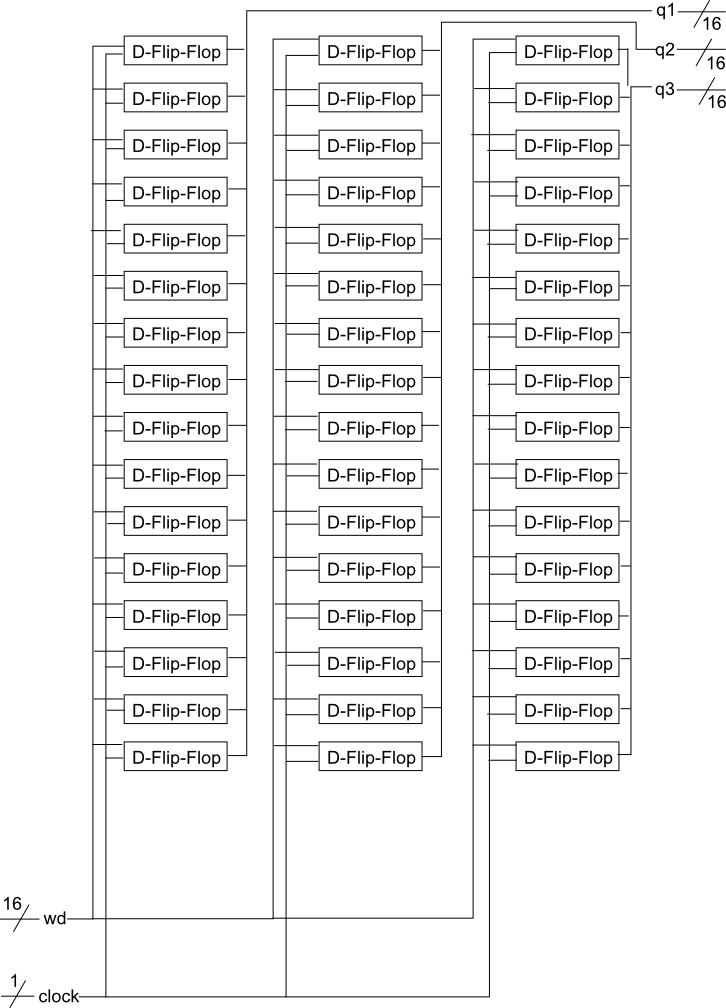
**Diagrams**

* Single-Cycle Path – Tony
* Internals - Bryan

**Report** - Robert Rotaru, Bryan Bigelow, Anthony Cerritelli

## Diagrams

**Registers**



Single-Cycle Datapath

## Source Code

## Testing