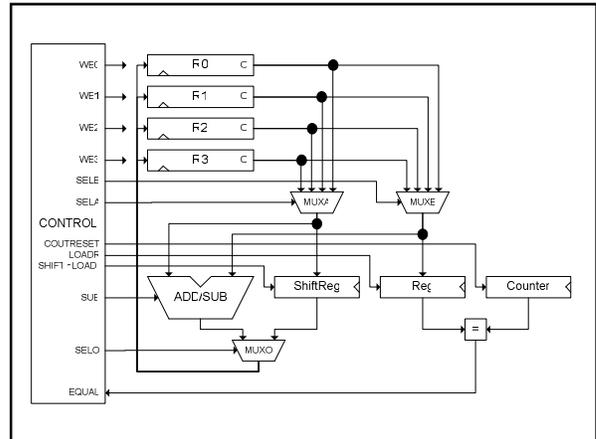


Midterm II Review  
3/28/2004

Greg Gibeling



Basic Operations

- What does datapath support?
  - Add
  - Subtract
  - Variable Shift Left
  - Copy (How?)
- You should be able to write RTL for everything this datapath can do!!

Variable Shift

- A Loop Based on a Counter
  - $Val \leftarrow (Val \ll 1)$
  - If (Count != End) then loop
- Write RTL for this
- Write Verilog for this
- Translate RTL  $\leftrightarrow$  Verilog

Other Topics

- SDRAM
- State Machines
- General Verilog
- RTL  $\leftrightarrow$  Datapath
- High Level Design