**CSE 664 Introduction to System-on-Chip Design**

**Final Project – 8-Bit Microcontroller**



Revision: 1.0

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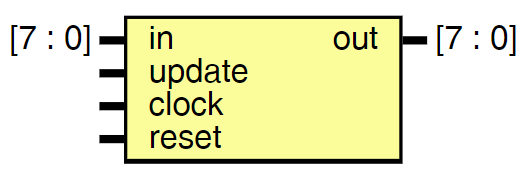
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# Design Documentation

## Entity: acc

* **File**: accumulator.v

### Diagram



### Description

A register in which intermediate arithmetic logic unit results are stored. This simple 8-bit accumulator's output will continuously grow by increments of the input until reset.

Note - Overflow is not handled

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| out | output | [7 : 0] | Value stored in the register, to be returned to ALU. |
| in | input | [7 : 0] | Value (from ALU) to increment current register value by. |
| update | input |  | Signal (active high) to update the register value by "in"'s value. |
| clock | input |  | Clock signal and posedge triggered. |
| reset | input |  | Signal (active high) to clear register value and set value stored back to 0. |

### Signals

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| accumulator | reg [7 : 0] |  |

### Processes

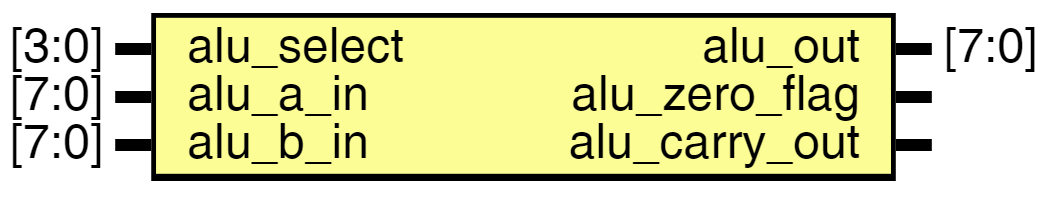
* unnamed: ( @(posedge clock or posedge reset) )

**Type:** always

## Entity: ALU\_8bit

* **File**: ALU\_8bit.v

### Diagram



### Description

A combinational digital circuit that performs arithmetic and bitwise operations on integer binary numbers.

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| alu\_out | output | [7:0] | 8 bit result (connected to mux that is connected to ACC) |
| alu\_zero\_flag | output |  | Set if result is zero (connected to controller) |
| alu\_carry\_out | output |  | Set if carry bit is needed (connected to controller) |
| alu\_select | input | [3:0] | Select ALU operation (received from controller) |
| alu\_a\_in | input | [7:0] | ACC ALU input |
| alu\_b\_in | input | [7:0] | REG ALU input |

### Processes

* unnamed: ( @(alu\_a\_in or alu\_b\_in or alu\_select) )

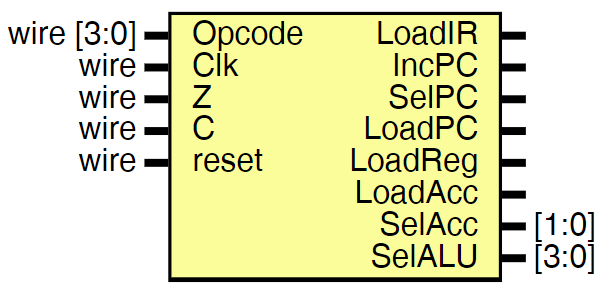
**Type:** always

**Description**  
The ALU outputs change anytime the inputs change (combinational logic).

## Entity: controller\_fsm

* **File**: controller\_fsm.v

### Diagram

****

### Description

Model that uses a known set of inputs to define several combinations of outputs and states.

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| LoadIR | output |  | Load instruction register with next instruction - (Should be checked before update) |
| IncPC | output |  | Program counter which is incremented only to next instruction |
| SelPC | output |  | Used to increment PC by immediate or val in reg |
| LoadPC | output |  | Signal to update PC value - (Should be checked before JUMP ONLY) |
| LoadReg | output |  | Signal to update register - (Should be checked before update) |
| LoadAcc | output |  | Signal to update accumulator - (Should be checked before update) |
| SelAcc | output | [1:0] | Select signal for ACC muxes - (SelAcc[1] = SelAcc1, SelAcc[0] = SelAcc0) |
| SelALU | output | [3:0] | Select signal for ALU operation (opcode) |
| Opcode | input | wire [3:0] | Opcode from instruction register |
| Clk | input | wire | Clock signal |
| Z | input | wire | Zero bit |
| C | input | wire | Carry bit |
| reset | input | wire | Asynchronous active high reset |

### Processes

* unnamed: ( @(posedge Clk or posedge reset) )

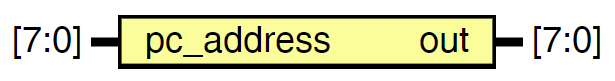
**Type:** always

**Description**  
Case statement for setting control signals

## Entity: instruction\_memory

* **File**: instruction\_memory.v

### Diagram



### Description

Instruction memory to execute a program based on a program counter Assumption:

Assumption: Program is precompiled

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| pc\_address | input | [7:0] | Address of the Instruction |
| out | output | [7:0] | Instruction value at the address location |

### Processes

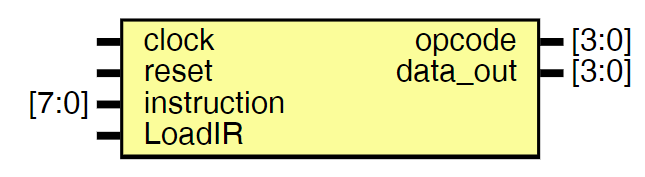
* unnamed: ( @(pc\_address) )

**Type:** always

## Entity: instruction\_register

* **File**: instruction\_register.v

### Diagram



### Description

The part of a CPU's control unit that holds the instruction currently being executed or decoded.

This module transforms instruction into opcode (sent to controller) and data components.

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| clock | input |  | Clock signal (Positive edge triggered). |
| reset | input |  | Signal to clear and set opcode and data out back to 0. |
| instruction | input | [7:0] | Instruction received from memory. |
| opcode | output | [3:0] | Opcode from the instruction. |
| data\_out | output | [3:0] | Data component from the instruction. |
| LoadIR | input |  | Signal to load and transform instruction into opcode and data components. |

### Processes

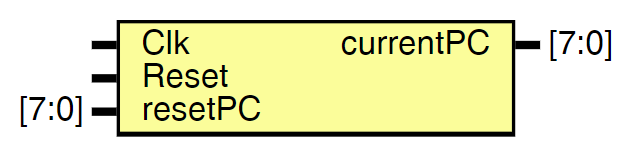
* unnamed: ( @(posedge clock or posedge reset) )

**Type:** always

## Entity: mcu\_8bit

* **File**: mcu\_8bit\_top\_level.v

### Diagram



### Description

8-bit Micro-controller Unit

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| Clk | input |  | Clock signal. |
| Reset | input |  | Signal to reset controller (all internal components). |
| currentPC | output | [7:0] | Program Counter: Address of the program instruction we want to execute. |
| resetPC | input | [7:0] | Signal to reset program counter. |

### Signals

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| LoadIR | wire |  |
| IncPC | wire |  |
| SelPC | wire |  |
| LoadPC | wire |  |
| LoadReg | wire |  |
| LoadAcc | wire |  |
| SelAcc | wire [1:0] |  |
| SelALU | wire [3:0] |  |
| alu\_zero\_flag | wire |  |
| alu\_carry\_out | wire |  |
| alu\_out | wire [7:0] |  |
| reg\_out | wire [7:0] |  |
| acc\_out | wire [7:0] |  |
| acc\_in | wire [7:0] |  |
| a0\_to\_a1 | wire [7:0] |  |
| pc\_jump | wire [7:0] |  |
| ir\_data | wire [3:0] |  |
| Opcode | wire [3:0] |  |
| instruction | wire [7:0] |  |

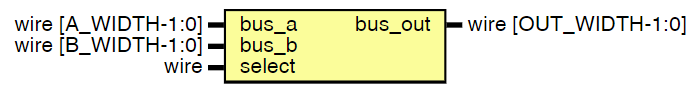
### Instantiations

* imm: instruction\_memory
* instr\_reg: instruction\_register
* MUX2\_PC: nbit\_two\_one\_mux
* pc\_module: program\_counter
* controller\_fsm: controller\_fsm
* register\_file: register\_unit
* ALU: ALU\_8bit
* MUX2\_A0: nbit\_two\_one\_mux
* MUX2\_A1: nbit\_two\_one\_mux
* accumulator: acc

## Entity: nbit\_two\_one\_mux

* **File**: nbit\_two\_one\_mux.v

### Diagram



### Description

A data selector device that selects between several analog or digital input signals and forwards the selected input to a single output line.

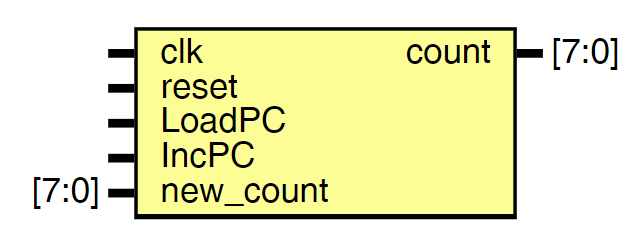
### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| bus\_out | output | wire [OUT\_WIDTH-1:0] | Output bus |
| bus\_a | input | wire [A\_WIDTH-1:0] | Input bus A |
| bus\_b | input | wire [B\_WIDTH-1:0] | Input bus B |
| select | input | wire | Select Signal |

## Entity: program\_counter

* **File**: program\_counter.v

### Diagram



### Description

Register that contains the address of the instruction to be executed. Counts the instructions opcodes from 0000 to 1111 and it signals the memory address of next instruction to be fetched and executed.

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| clk | input |  | cLock signal. |
| reset | input |  | Signal to clear and set address back to 8'b00000000. |
| LoadPC | input |  | Signal to manually set program address. |
| IncPC | input |  | Signal to automatically increment program address by 1 (2'b10) |
| new\_count | input | [7:0] | Address to manually set program address to. |
| count | output | [7:0] | Current address of the program |

### Processes

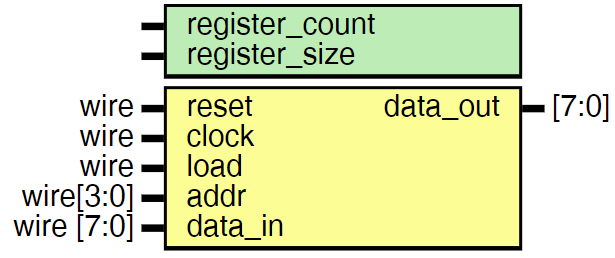
* unnamed: ( @ (posedge clk or posedge reset) )

**Type:** always

## Entity: register\_unit

* **File**: registers.v

### Diagram



### Description

A register module that allows users to store up to 16 numbers that are 8-bits long.

### Generics

| **Generic name** | **Type** | **Value** | **Description** |
| --- | --- | --- | --- |
| register\_count |  | 16 |  |
| register\_size |  | 8 |  |

### Ports

| **Port name** | **Direction** | **Type** | **Description** |
| --- | --- | --- | --- |
| reset | input | wire | Signal to clear all 16 register values and set value stored back to 0. |
| clock | input | wire | Clock signal. |
| load | input | wire | Signal to update register. |
| addr | input | wire[3:0] | Address of the register slot to update or read from. |
| data\_out | output | [7:0] | Value stored in register slot, addressed by the "addr" 4-bit wires. |
| data\_in | input | wire [7:0] | Value to update register slot to, addressed by the "addr" 4-bit wires. Requires load and clock signal to be high. |

### Signals

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| i | integer |  |

### Processes

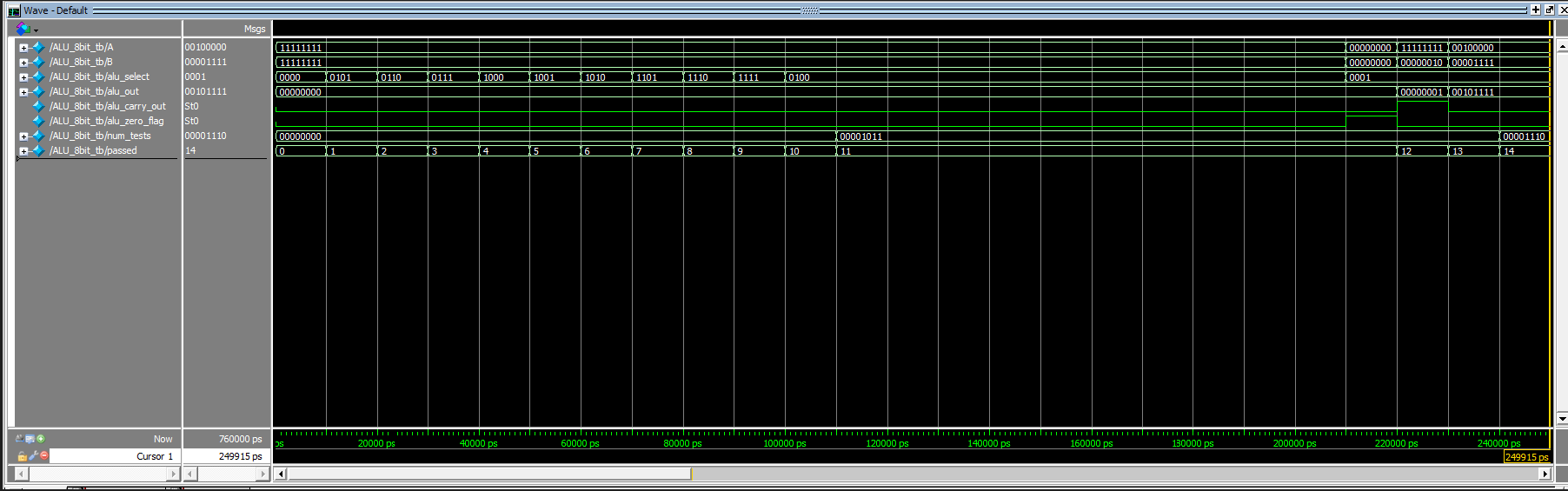
* unnamed: ( @(posedge clock or posedge reset) )

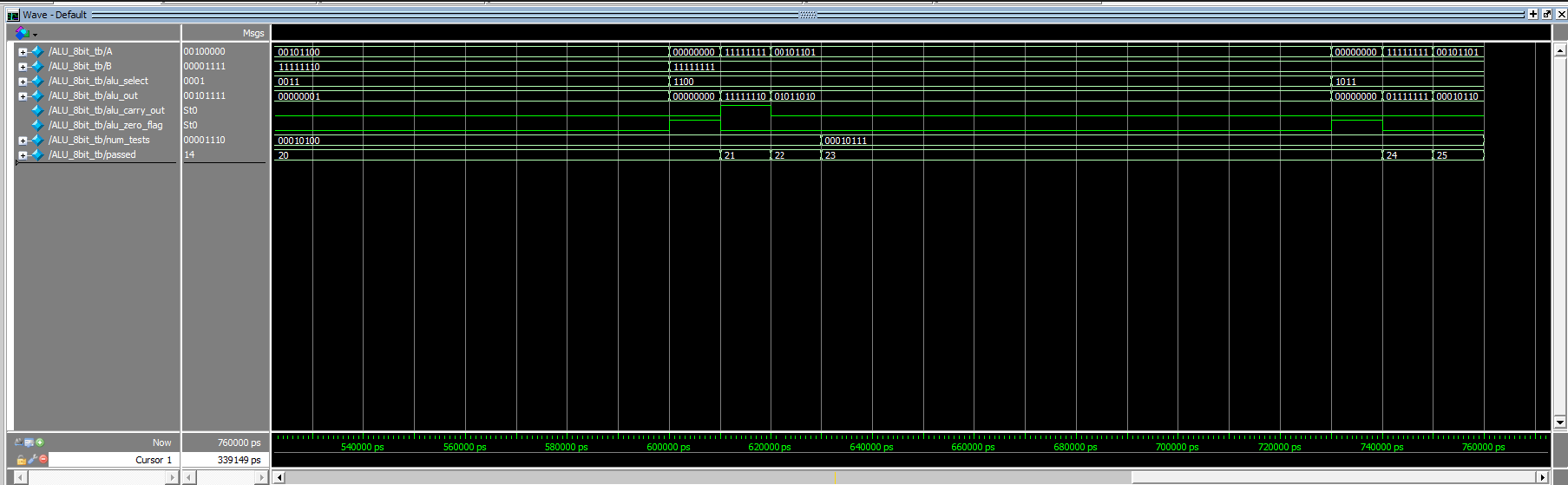
**Type:** always

# Simulations

## Modelsim - accumulator.v

## Modelsim – ALU\_8bit.v





## Modelsim – controller\_fsm.v

## Modelsim – instruction\_memory.v

![A screenshot of a computer

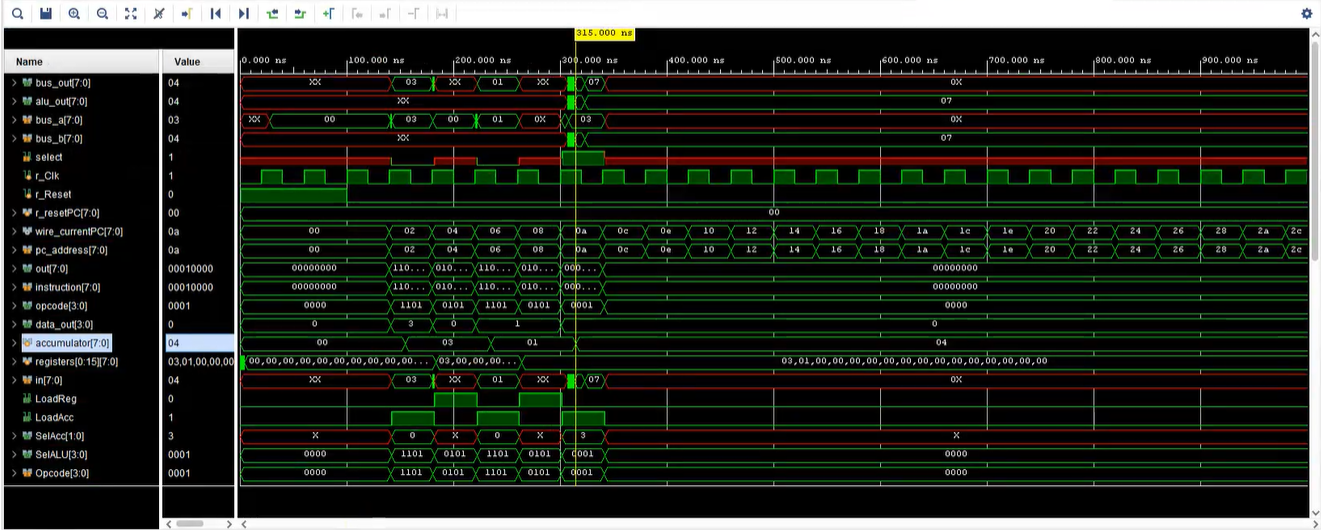
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confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAERlcnJpY2sgV2FyZAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzQ0AACSkgACAAAAAzQ0AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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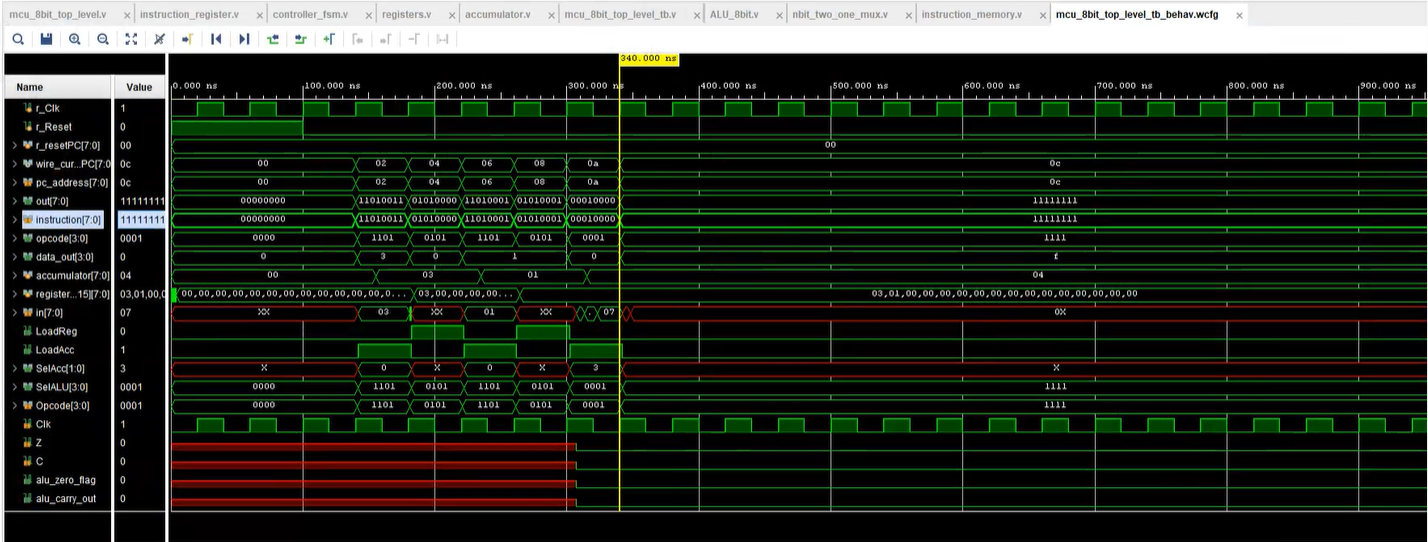
## Modelsim – instruction\_register.v

A screenshot of a computer

Description automatically generated with medium confidence

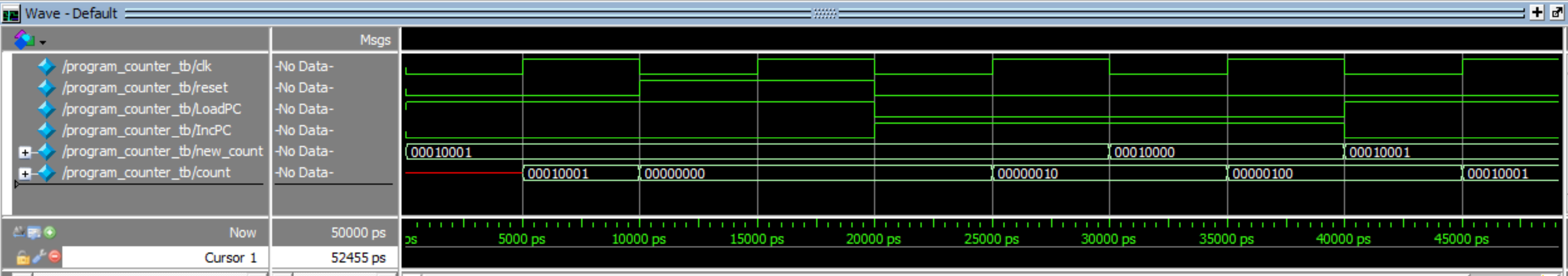
## Modelsim – mcu\_8bit\_top\_level.v





## Modelsim – nbit\_two\_one\_mux.v

## Modelsim – program\_counter.v



## Modelsim – 16 slot 8-bit register unit

A picture containing text, software, multimedia software, line

Description automatically generated

# References

## APPENDIX A: 8-Bit Microcontroller Code Base



Prepared by:

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