**MULTI CYCLE MIPS**

**computer architecture Lecture Project**

UNDER THE SUPERVISION OF:

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# 1-Introduction

# 2-Main Modules

## 2.1-ALU

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| A | 32bit/Input | From Register File |  |
| B | 32bit/Input | From Register File |  |
| ALUControl | 3bit/Input | From Control Unit |  |
| Reset | 1bit/Input | Null | Turns the output to 0’s when 1 |
| BorN | 2bit/Input | From Control Unit | For bnq,beq,blt,ble |
| Flag | 1bit/Output | To And Gate | From BorN |
| ALU\_OutPut | 32bit/Output | To PC or Data Memory |  |

# 2.2-Register File

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| Control\_RegWrite | 1bit/Input | From Control Unit |  |
| CLK | 1bit/Input |  |  |
| Read\_Register\_1 | 5bit/Input | From Instruction Register |  |
| Read\_Register\_2 | 5bit/Input | From Instruction Register |  |
| Write\_Register | 5bit/Input | From Instruction Register or 1111 | Can be used for changing Read\_Register\_1 or Read\_Register\_2 values |
| Write\_Date | 32bit/Input | From Data memo or ALU | The Value that goes in the Write\_Register |
| Control\_RegWrite | 32bit/Input | From Control Unit | Enables writing |
| Read\_Data\_1 | 32bit/Output | To ALU |  |
| Read\_Data\_2 | 32bit/Output | To ALU |  |

# 2.3-Sign\_Extend

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| Zero\_Sign | 2bit/Input | From Control Unit |  |
| Instr15\_0 | 16bit/Input | From The Instruction Register |  |
| out | 32bit/Output | To ALU |  |

# 2.4- Data Memory

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| Memory\_allow\_Write | 1bit/Input | From Control Unit |  |
| CLK | 1bit/Input |  |  |
| Write\_Data | 32bit/Input | From Register |  |
| Memory\_Address | 16bit/Input | From ALU |  |
| Output\_Data | 23bit/Output | To Register |  |

# 2.5- PC

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| Reset | 1bit/Input |  |  |
| CLK | 1bit/Input |  |  |
| Control\_PC\_Write | 1bit/Input | From Control Unit |  |
| PC\_In | 32bit/Input | From OR |  |
| PC\_Out | 32bit/Output | To Instruction memory and ALU |  |

# 2.6- Instruction Register

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Size/Type | From | Notes |
| Reset | 1bit/Input |  |  |
| CLK | 1bit/Input |  |  |
| Instruction | 32bit/Input | From Instruction Memory |  |
| Inst\_Reg\_Write | 1bit/Input | From Control Unit |  |
| PC\_Out | 32bit/Output | To Instruction memory and ALU |  |
| Instr31\_26 | 6bit/Output | To Register File |  |
| Instr31\_26 | 5bit/Output | To Register File |  |
| Instr20\_16 | 5bit/Output | To Register File |  |
| Instr15\_0 | 16bit/Output | To Register File |  |

# 3-Control Unit

## 3.1-Different States and Instructions

R Type = Stage 0 TO Stage 1 TO Stage 6 TO Stage 7 TO Stage0

I-Type = Stage 0 TO Stage 1 TO Stage 8 TO Stage 9 TO Stage 10 TO Stage0

Branch = Stage 0 TO Stage 1 TO Stage 10 TO Stage0

Jump/NOOP = Stage 0 TO Stage 1 TO Stage 11 TO Stage 0

JAL = Stage 0 TO Stage 1 TO Stage 14 TO Stage 0

SWI = Stage 0 TO Stage 1 TO Stage 2 TO Stage 5 TO stage0

SW = Stage 0 TO Stage 1 TO Stage 12 TO Stage 13 TO Stage0

LW/LWI/LI/LUI = Stage 0 TO Stage 1 TO Stage 2 TO Stage 3 TO Stage 4 TO Stage0

## 3.2-Opcode for each instruction

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **5** | **4** | **3** | **2** | **1** | **0** | **Name** | **Type** |
| 0 | 0 | 0 | 0 | 0 | 0 | **NOOP** | NOOP |
| 0 | 0 | 0 | 0 | 0 | 1 | **JUMP** | J-Type |
| 0 | 0 | 0 | 0 | 1 | 1 | **JAL** | J-Type |
| 0 | 1 | 0 | 0 | 0 | 0 | **MOV** | R-type |
| 0 | 1 | 0 | 0 | 0 | 1 | **NOT** | R-type |
| 0 | 1 | 0 | 0 | 1 | 0 | **ADD** | R-type |
| 0 | 1 | 0 | 0 | 1 | 1 | **SUB** | R-type |
| 0 | 1 | 0 | 1 | 0 | 0 | **OR** | R-type |
| 0 | 1 | 0 | 1 | 0 | 1 | **AND** | R-type |
| 0 | 1 | 0 | 1 | 1 | 0 | **XOR** | R-type |
| 0 | 1 | 0 | 1 | 1 | 1 | **SLT** | R-Type |
| 1 | 0 | 0 | 0 | 0 | 0 | **BEQ** | Branch Type |
| 1 | 0 | 0 | 0 | 0 | 1 | **BNE** | Branch Type |
| 1 | 0 | 0 | 0 | 1 | 0 | **BLT** | Branch Type |
| 1 | 0 | 0 | 0 | 1 | 1 | **BLE** | Branch Type |
| 1 | 1 | 0 | 0 | 1 | 0 | **ADDI** | I-Type |
| 1 | 1 | 0 | 0 | 1 | 1 | **SUBI** | I-Type |
| 1 | 1 | 0 | 1 | 0 | 0 | **ORI** | I-Type |
| 1 | 1 | 0 | 1 | 0 | 1 | **ANDI** | I-Type |
| 1 | 1 | 0 | 1 | 1 | 0 | **XORI** | I-Type  Logical |
| 1 | 1 | 0 | 1 | 1 | 1 | **SLTI** | I-Type |
| 1 | 1 | 1 | 0 | 0 | 1 | **LI** | I-Type |
| 1 | 1 | 1 | 0 | 1 | 0 | **LUI** | I-Type |
| 1 | 1 | 1 | 0 | 1 | 1 | **LWI** | I-Type |
| 1 | 1 | 1 | 1 | 0 | 0 | **SWI** | I-Type |
| 1 | 1 | 1 | 1 | 0 | 1 | **LW** | I-Type |
| 1 | 1 | 1 | 1 | 1 | 0 | **SW** | I-Type |

Table

Description automatically generated

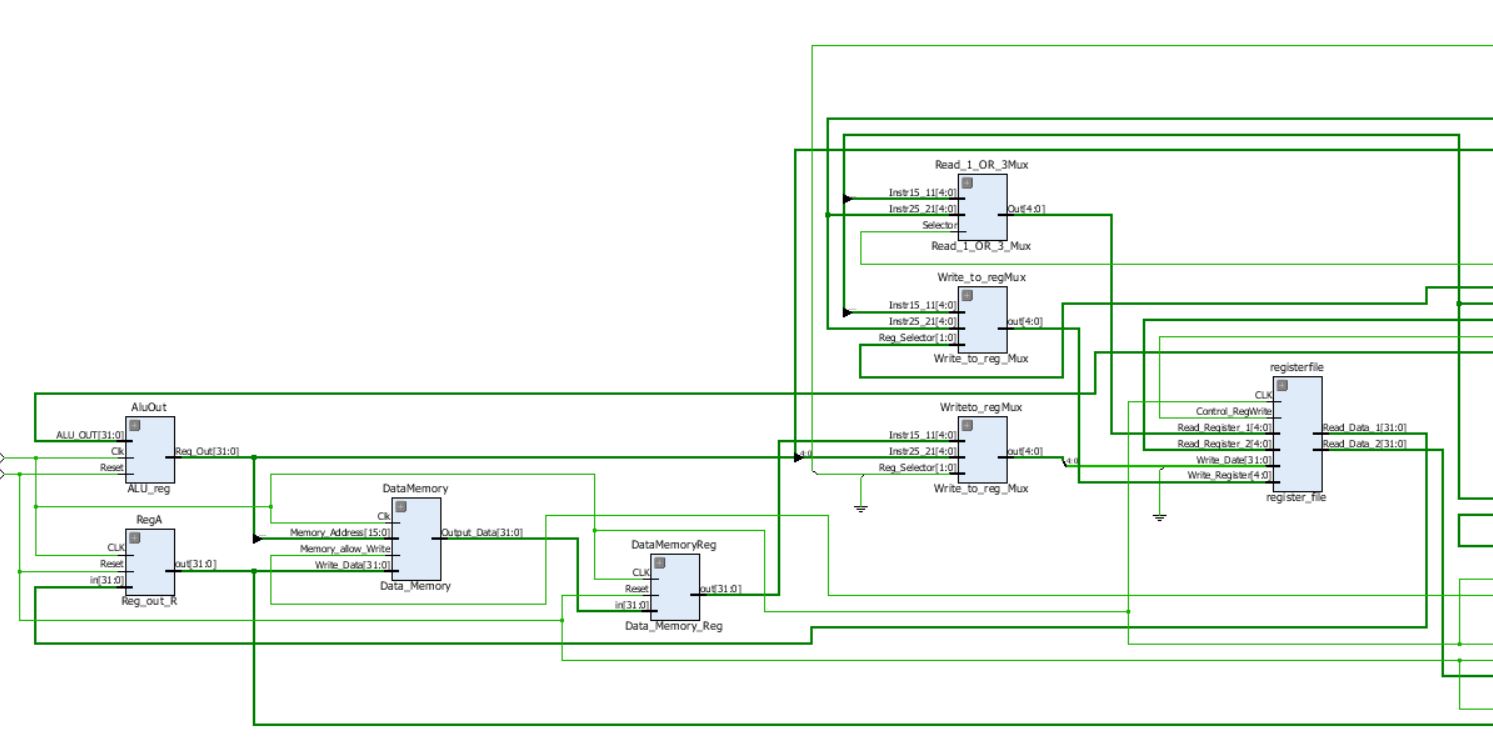
# 4-Full implementation

## 4.1-Datapath

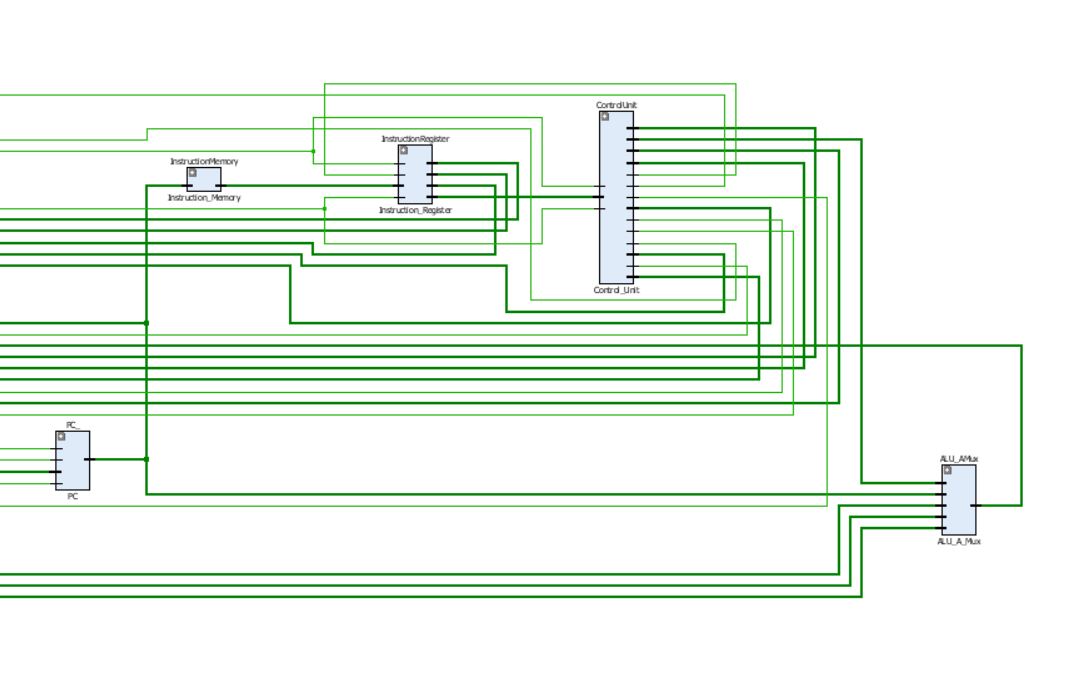
Diagram, schematic

Description automatically generated

## 4.2Our Schematic



![Diagram, schematic

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDiRXhpZgAATU0AKgAAAAgABAE7AAIAAAAIAAAISodpAAQAAAABAAAIUpydAAEAAAAQAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1vc3RhZmEAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzIzAACSkgACAAAAAzIzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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## 4.3-Power Summary

![Graphical user interface, application

Description automatically 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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAyMDIzOjAxOjA2IDIzOjIyOjU5ADIwMjM6MDE6MDYgMjM6MjI6NTkAAABNAG8AcwB0AGEAZgBhAAAA/+ELGmh0dHA6Ly9ucy5hZG9iZS5jb20veGFwLzEuMC8APD94cGFja2V0IGJlZ2luPSfvu78nIGlkPSdXNU0wTXBDZWhpSHpyZVN6TlRjemtjOWQnPz4NCjx4OnhtcG1ldGEgeG1sbnM6eD0iYWRvYmU6bnM6bWV0YS8iPjxyZGY6UkRGIHhtbG5zOnJkZj0iaHR0cDovL3d3dy53My5vcmcvMTk5OS8wMi8yMi1yZGYtc3ludGF4LW5zIyI+PHJkZjpEZXNjcmlwdGlvbiByZGY6YWJvdXQ9InV1aWQ6ZmFmNWJkZDUtYmEzZC0xMWRhLWFkMzEtZDMzZDc1MTgyZjFiIiB4bWxuczpkYz0iaHR0cDovL3B1cmwub3JnL2RjL2VsZW1lbnRzLzEuMS8iLz48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOnhtcD0iaHR0cDovL25zLmFkb2JlLmNvbS94YXAvMS4wLyI+PHhtcDpDcmVhdGVEYXRlPjIwMjMtMDEtMDZUMjM6MjI6NTkuMjYzPC94bXA6Q3JlYXRlRGF0ZT48L3JkZjpEZXNjcmlwdGlvbj48cmRmOkRlc2NyaXB0aW9uIHJkZjphYm91dD0idXVpZDpmYWY1YmRkNS1iYTNkLTExZGEtYWQzMS1kMzNkNzUxODJmMWIiIHhtbG5zOmRjPSJodHRwOi8vcHVybC5vcmcvZGMvZWxlbWVudHMvMS4xLyI+PGRjOmNyZWF0b3I+PHJkZjpTZXEgeG1sbnM6cmRmPSJodHRwOi8vd3d3LnczLm9yZy8xOTk5LzAyLzIyLXJkZi1zeW50YXgtbnMjIj48cmRmOmxpPk1vc3RhZmE8L3JkZjpsaT48L3JkZjpTZXE+DQoJCQk8L2RjOmNyZWF0b3I+PC9yZGY6RGVzY3JpcHRpb24+PC9yZGY6UkRGPjwveDp4bXBtZXRhPg0KICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAKICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgIAogICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgICAgCiAgICAgICAgICAgICAgICAgICAgICAgICAgICA8P3hwYWNrZXQgZW5kPSd3Jz8+/9sAQwAHBQUGBQQHBgUGCAcHCAoRCwoJCQoVDxAMERgVGhkYFRgXGx4nIRsdJR0XGCIuIiUoKSssKxogLzMvKjInKisq/9sAQwEHCAgKCQoUCwsUKhwYHCoqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioqKioq/8AAEQgBkgNXAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZG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iiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVTstQW8uLyIRlPss3lEk53fKGz/AOPVHHr2lS3ktpHqFu1xCCZIhINyAdcir5JXtYjnja9zQoqr/aVl/wA/UX+q877w+5/e+nvVlWV1DIQykZBHepaa3KTT2FooopDCiiigAooooAKKKKACiiigAqG7/wCPOX/dNTVDd/8AHnL/ALpoAmHQUUDoKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqG36y/9dD/Spqht+sv/AF0P9KAJqKKKACiiigAooooAKKKKACiiigAooooAKKKKAMa//wCQfP8A7hrYX7o+lY9//wAg+f8A3DWwv3R9KAOZ8YWmoi40nV9JtBfS6ZOzvaggPIjrtbbnjcBkgHGfUVi67d6x4ksYLlPC19FFp13FcG0uzGJbkAMGChWK8ZHUjrXoNFO7+4DyzTvDWo6l4xttbu9Fls7KXUGm+yXATdABC6bmAJHLEHgnrV0+Gb8XU2NPPlnxBHdKMLjygiAt9Mg16NRQna1un/A/yB63v/W/+Z5VFomraJ4i/taTw/calD513GkMGwvH5jqVkwxA24U9889KyI/Cms2z2d9qGl675UkU0b22j3KJLEWndxuBIBUhh3r2yil0t/XX/Md9Tzbw94Q+ySas8elXUcMumww2324q82QZCVYgnn5h+dR+HLPVPC0kSX3h2+1A3dnbRia2WNjalY1VlbcwxgjPGelem0U27v8Arz/zJ/r8v8jyLw34WuLLWbW31jTPEzyW96ZknjukayGXLKcFg2BnkY7Gtn4g+GNV17U5Dp0MhT+zmTekmwlhNE20HsSFOPpXolFJ628ir+83/W9zzHRPCseo2epiTTvElpey2oRJdZnSRQwOV2bWPRue1Rar4W1nUvC66jcWl0uotfR3E1vazBJ/JQEKqt03DcT1xzXqdFD1EtP6+R5bofhyVNc06/s9K16ILdvJdHWZkdyPIdQRtY8ZIH413HhSOSPQlWXR00dvMk/0VGBA+Y/Nx69fxraop30sIKKKKQwooooAKKKKACiiigAooooAKKKKACiiigDkodWGm69qlpcW0oF1dblnEkYRQUUZOWBHT0rHso1m/s3TZY4bb7C7Ga7MybJRtK/Kc5Od2eQOldvPomlXMzTXOmWc0rnLPJbqzN9SRTP+Ed0X/oD2H/gKn+Fd0cRBLbX/AIFu5wyw9R6X0v8ArfscUttIbZnaaAOZTahBOmRARsyeegHNeg2xT7LH5LK6bQAynIP41T/4R3Rf+gPYf+Aqf4Vehhit4Vit40ijQYVEUKqj2ArKtWVRKxrRpSptt/1/X6D6KKK5jpCiiigAooooAKKKKACiiigAqG7/AOPOX/dNTVHcI0lvIiDLFcCgCQdBRUIlmx/x7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNRUPmzf8+5/77FHmzf8+5/77FAE1FQ+bN/z7n/vsUebN/z7n/vsUATUVD5s3/Puf++xR5s3/Puf++xQBNUNv1l/66H+lHmzf8+5/wC+xS26uquXXaWcnGc0AS0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAY1/8A8g+f/cNbC/dH0rHv/wDkHz/7hrYX7o+lAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGNf/APIPn/3DWwv3R9Kx7/8A5B8/+4a2F+6PpQAtFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBjX/wDyD5/9w1sL90fSse//AOQfP/uGthfuj6UALRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAY1/8A8g+f/cNbC/dH0rHv/wDkHz/7hrYX7o+lAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGNf/APIPn/3DWwv3R9Kx7/8A5B8/+4a2F+6PpQAtFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBjX/wDyD5/9w1sL90fSse//AOQfP/uGthfuj6UALRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAY1/8A8g+f/cNbC/dH0rHv/wDkHz/7hrYX7o+lAC0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGNf/APIPn/3DWwv3R9KKKAFooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/Z)

# 6-Multi cycle Vs single cycle

## 6.1-Single Cycle Disadvantages

* Clock Cycle must have the same length for every instruction
* Some combinational units must be replicated since used in the same cycle
* Clock cycles are long enough for the lowest instruction
* For complicated instruction like floating point, it will be harder

## 6.2-Multicycle Advantages

* Clock cycles are short but long enough for the lowest instruction.
* Performance is slightly slower to moderately faster than single cycle, latter when the instructions steps are well balanced and a significantly fractions of the instructions take less than the maximum number of cycles.
* The clock cycle can be much shorter.
* Can require less hardware.
* Could use a single memory for instructions and data.
  + Can eliminate two adders.

## 6.3-Difference between Multicycle and single cycle

* Major difference from single cycle Datapath
* Single memory unit used for both instruction and data
* Single ALU instead of three
* One or more registers are added after every major functional unit to hold the output of that unit until the value is used in next clock cycle

# 5-Refrences

1-https://youtu.be/23NONE7u94A

2-https://youtu.be/vtE-6bIULYg

3-https://scholarworks.calstate.edu/downloads/ns0649050