ESE501 Project 1 Phase 1 Report

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Control Signals

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| Operation | Signals from CTRL to Datapath. (In decimal) |
| ADD | 1 |
| ADDI | 2 |
| SUB | 3 |
| SUBI | 4 |
| CMP | 5 |
| CMPI | 6 |
| AND | 7 |
| ANDI | 8 |
| OR | 9 |
| ORI | 10 |
| XOR | 11 |
| XORI | 12 |
| MOV | 13 |
| MOVI | 14 |
| LSH | 15 |
| LSHI | 16 |
| ASH | 17 |
| ASHI | 18 |
| LUI | 19 |
| LOAD | 20 |
| STOR | 21 |
| Bcond EQ | 22 |
| Bcond NE | 23 |
| Bcond GE | 24 |
| Bcond CS | 25 |
| Bcond CC | 26 |
| Bcond GT | 27 |
| Bcond LE | 28 |
| Bcond LT | 29 |
| Jcond EQ | 30 |
| Jcond NE | 31 |
| Jcond GE | 32 |
| Jcond CS | 33 |
| Jcond CC | 34 |
| Jcond GT | 35 |
| Jcond LE | 36 |
| Jcond LT | 37 |
| JAL | 38 |
| NOP | 39 |
| (Some of the control signals may not be used in ALU, but we will pass every signal to Datapath) | |