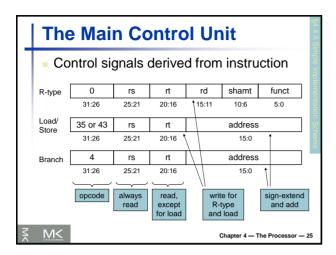
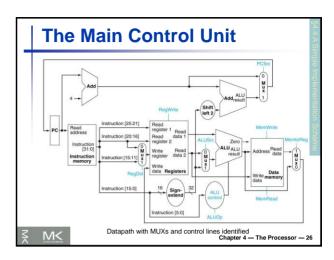
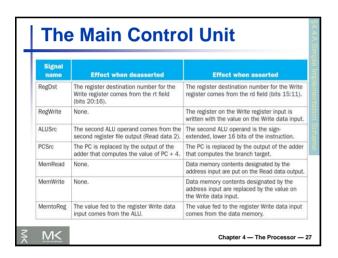


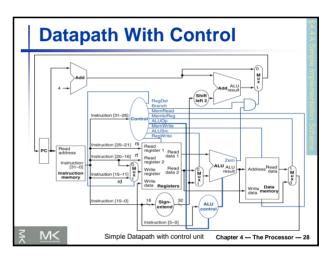
| A | LU Control | | §4.4 A Si |
|-----|--|------------------|-----------------------|
| | ALU used for Load/Store: F = a Branch: F = subtr R-type: F depend | act | mple Implementation S |
| | ALU control | Function | - Chen |
| | 0000 | AND | пе |
| | 0001 | OR | |
| | 0010 | add | |
| | 0110 | subtract | |
| | 0111 | set-on-less-than | |
| | 1100 | NOR | |
| < M | < | Chapter 4 — T | he Processor — 23 |

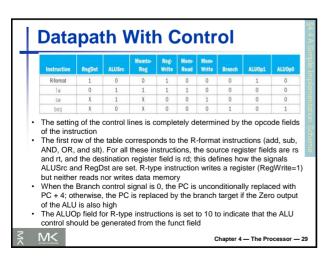
| | | -bit ALUC tional logic | - | | - |
|--------|-------|---------------------------|--------|------------------|-------------|
| opcode | ALUOp | Operation | funct | ALU function | ALU control |
| lw | 00 | load word | XXXXXX | add | 0010 |
| SW | 00 | store word | XXXXXX | add | 0010 |
| beq | 01 | branch equal | XXXXXX | subtract | 0110 |
| R-type | 10 | add | 100000 | add | 0010 |
| | | subtract | 100010 | subtract | 0110 |
| | | AND | 100100 | AND | 0000 |
| | | OR | 100101 | OR | 0001 |
| | | set-on-less-than | 101010 | set-on-less-than | 0111 |

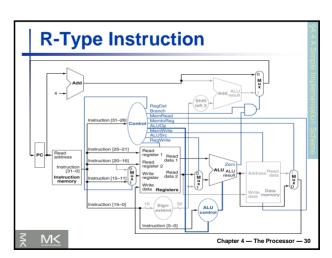


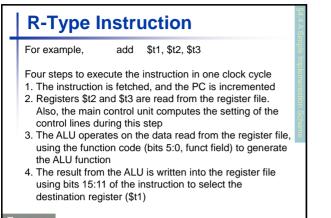












Chapter 4 — The Processor — 31

. Σ Μ< <image>

