Processor Design Branches Mam (S 631-01 Labor QiA Project 05 Tests unit tests prog tests - project 02 utlang codegen tests Incremental development Debug circuit

Major Processor Elements

Components Datalath

Control Path

Remaining Instructions
Data processing
Branches
Data Memory
Setting up code to sur on the processor.
Branching
beg to, ti, label
1) Compute the BTA (branch target adds)
· · · · · · · · · · · · · · · · · · ·
BTA = PC+ imm (b-type)
- , ·
2) Determine if we are going to
told a M. berein la

 Option #1 BR BLOO RPO A / fcpr BU ROIB. 00 PCSOL 10 E Branch PC+4 PCBC BTA Option #2 BR BTA ALU PCBr PC44.

Option #3 PCbo BTA RAM Data Memory Triget addices Sw to, (+1) 1~ to, 8 (+1)

