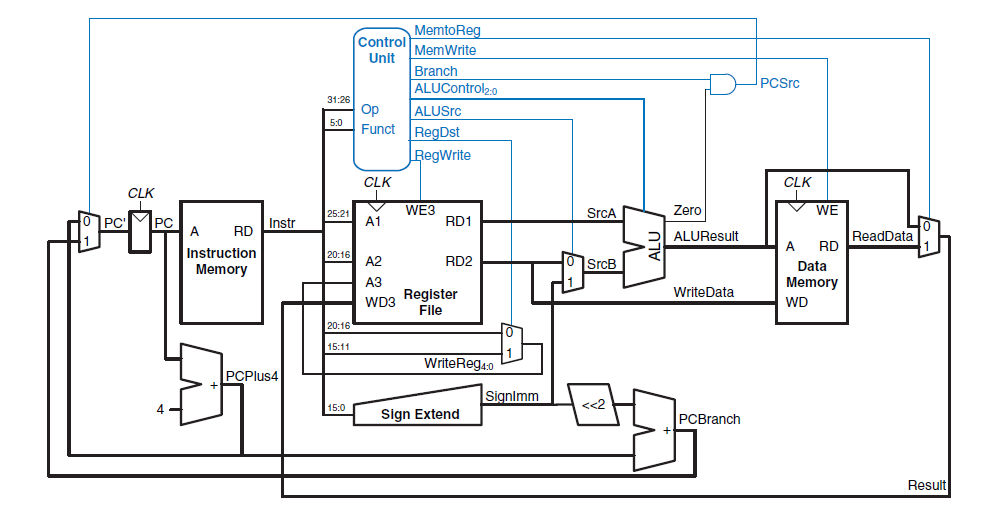
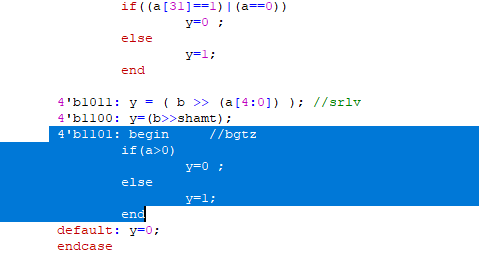
**BGTZ -- *Branch on greater than zero :*** Branches if the register is greater than zero  
 if $s > 0 advance\_pc (offset << 2)); else advance\_pc (4);

**opcode name description operation**

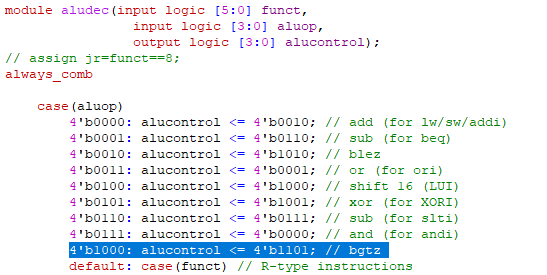
**000111 (7) bgtz rs, label branch if greater than zero if ([rs] > 0) PC = BTA**

**we don’t change in the data-path **

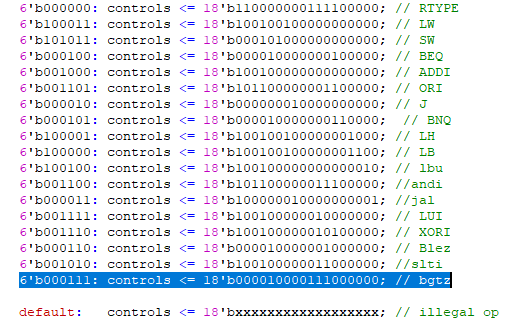
**Alu :**



**Aludec :**

****

**Maindec:**

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