

Control Flow: Branches

0001000010100001000000000000000011

op rs rd offset
6 bits 5 bits 5 bits 16 bits

I-Type

signed
offsets

op	mnemonic	description
0x4	BEQ rs, rd, offset	if $R[rs] == R[rd]$ then $PC = PC + 4 + (offset \ll 2)$
0x5	BNE rs, rd, offset	if $R[rs] \neq R[rd]$ then $PC = PC + 4 + (offset \ll 2)$

ex: BEQ r5, r1, 3

If($R[r5] == R[r1]$) then $PC = PC + 4 + 12$