

B.cond

Branch conditionally to a label at a PC-relative offset, with a hint that this is not a subroutine call or return.

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	1	0	1	0	1	0	0	imm19																		0	cond				

B. **<cond>** **<label>**

```
bits(64) offset = SignExtend(imm19:'00', 64);
```

Assembler Symbols

- <cond>

Is one of the standard conditions, encoded in the "cond" field in the standard way.
- <label>

Is the program label to be conditionally branched to. Its offset from the address of this instruction, in the range +/-1MB, is encoded as "imm19" times 4.

Operation

```
if ConditionHolds(cond) then
    BranchTo(PC64 + offset, BranchType\_DIR, TRUE);
else
    BranchNotTaken(BranchType\_DIR, TRUE);
```