15-12 11-9 8-6 5-0 BEQ : BEQ RA RB Imm Single Step: III - REAL RED, - Mem. Add, ALUZ-A, ALUZ-A Cond h Mem\_Data (11-9) -> RF\_ Az BEQ: (Z == 1) Mum, - Data (8-6) -> RF-A3 BLT: (Z == 0) && (₹ ==1) RF-D2 -> ALU, -A BLE: (C ==1) RE 03 -> ALV 1-B - +2 - ALV2-B Jum, Data (5-0) SE ALU B 111 -> RF-Aq 7 (Cond"): ALU\_C -> RF- Py ALV2-C-> RF. DY 15-12 11-9 8-0 JAL! JALR. 24 Imm 111 - REA RED, -> Mum, - Add, Alv. A, Alv. - A +2 -> ALU\_-B Mum, data (3-0) SE ALUS-B Mem. data (11-9) -> RF. AZ ALU, C -> RF. D4 III -> RF. AS ALU3-( -> RF-D4 JAR : JLR 20 ML III - RF\_A RED, - Mum, - Add, ALUZ-A, ALUZ-A +2 -> ALV2-B Mem, Data (11-9) -> RF- Ag ALV2- ( -> RF-D4 Mem, Data 1 8-6) -> RF-A2 RE DI -> RF-D5

111 -> RF\_ AS

## JRI: JRI ra, Imm

RF-D, -> Mem, -Add

Mem-Data (11-9) -> RF-A2

RF-O2 -> ALV3 A

Mem-Data SE ALV3 B

(80) 25

ALV3-C -> RF-D4

111 -> RF-A3