

Instructions

Sunday, April 17, 2022 4:30 PM

I1: ADD RC, RA, RB

S0 → S1 → S2 → S3

I2: ADC RC, RA, RB

S4 → S1 → S2 → S3
S5

I3: ADZ RC, RA, RB

S4 → S1 → S2 → S3
S5

I4: ADL RC, RA, RB

S0 → S6 → S2 → S3

I5: ADI RB, RA, Imm 6

S0 → S7 → S8 → S9

I6: ANDU RA, RB, RC

S0 → S1 → S2 → S3

I7: NDC RA, RB, RC

S4 → S1 → S2 → S3
S5

I8: NDZ RA, RB, RC

S4 → S1 → S2 → S3
S5

I9: LHI RA Imm

S0 → S10 → S11 → S5

I10: LW RA, RB, Imm 6

S0 → S12 → S8 → S13

I11: SW RA, RB, Imm 6

I₁₁: SW RA, RB, Imm6

S0 → S12 → S8 → S14

I₁₄: BEQ RA RB Imm6

S0 → S15 → S16 → S17 → S8 → S5

I₁₅: JAL RA Imm9

S0 → S10 → S8 → S18

I₁₆: JLR RA RB

S0 → S19 → S20 → S21

I₁₇: JRI RA Imm9

S0 → S22 → S8 → S23

I₁₂: LM

S0 → S24 → S25 → S26 → S27 → S28 → S29 → S30
S31 ← S38 ← S37 ← S36 ← S35 ← S34 ← S33 ← S32 ← S31
= I₁₃: SM

S0 → S40 → S41 → S42 → S43 → S44 → S45 → S46
↓
S55 ← S54 ← S53 ← S52 ← S51 ← S50 — S49 ← S48 ← S47