## TinyCPU ISA Quick Reference Card

## Nebhrajani A. V.

 $May\ 26,\ 2023$ 

This QRC is intended mostly for assembly programmers. RTL folks will have to look elsewhere for their TinyCPU QRC needs.

Register	Purpose
rA	Accumulator
rB	Background
rM	Memory address
rP	Program counter

Instruction	RTL
AND	rA <= rA & rB
OR	rA <= rA   rB
INV	rA <= ~rA
ADD	rA <= rA + rB
LDI imm	rA <= (rA << 4)   imm
LDM	rA <= M[rM]
STM	M[rM] <= rA
SWAB	rA <= rB, rB <= rA
SWMB	rM <= rB, rB <= rM
CPPA	rA <= rP
CPAM	rM <= rA
JU	rP <= rM
JE	(rA == rB) ? rP <= rM
JL	(rA < rB) ? rP <= rM
JG	$(rA > rB)$ ? $rP \le rM$