

## **K&S Machine Language Reference**

## **Data Movement Instructions**

1001 0001 0000 xx xx

## Arithmetic and Logic Instructions

$RC \leftarrow RA + RB$	RC	RA	RB
1010 0001 00	XX	XX	XX
RC ← RA - RB	RC	RA	RB
1010 0010 00	хх	хх	XX
RC ← RA & RB	RC	RA	RB
RC ← RA & RB 1010 0011 00	RC XX	RA XX	RB XX
1010 0011 00	XX	XX	XX

## **Branching Instructions**

If Zero PC ← MM	MM
0000 0010 000	xxxxx
If Negative PC ← MM	MM
0000 0011 000	XXXXX
PC ← MM	MM
	IVIIVI
0000 0001 000	XXXXX

Halt

1111 1111 1111 1111

No Operation

0000 0000 0000 0000