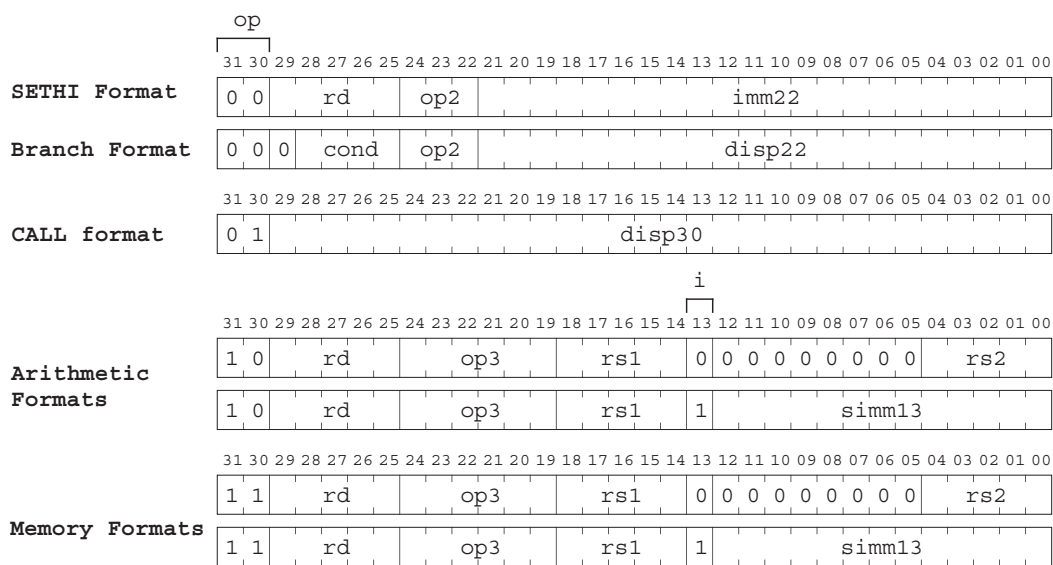


The ARC ISA

- The ARC ISA is a subset of the SPARC ISA.

	Mnemonic	Meaning
Memory	ld	Load a register from memory
	st	Store a register into memory
Logic	sethi	Load the 22 most significant bits of a register
	andcc	Bitwise logical AND
	orcc	Bitwise logical OR
	orncc	Bitwise logical NOR
Arithmetic	srl	Shift right (logical)
	addcc	Add
	call	Call subroutine
Control	jmp1	Jump and link (return from subroutine call)
	be	Branch if equal
	bneg	Branch if negative
	bcs	Branch on carry
	bvs	Branch on overflow
	ba	Branch always

ARC Instruction and PSR Formats



op	Format	op2	Inst.	op3 (op=10)	op3 (op=11)	cond	branch
00	SETHI/Branch	010	branch	010000 addcc	000000 ld	0001	be
01	CALL	100	sethi	010001 andcc	000100 st	0101	bcs
10	Arithmetic			010010 orcc		0110	bneg
11	Memory			010110 orncc		0111	bvs
				100110 srl		1000	ba
				111000 jmp1			

