

Table 13.12 SPARC Instruction Set

OP	Description	OP	Description
Load/Store Instructions		Arithmetic Instructions	
LDSB	Load signed byte	ADD	Add
LDSH	Load signed halfword	ADDCC	Add, set icc
LDUB	Load unsigned byte	ADDX	Add with carry
LDUH	Load unsigned halfword	ADDXCC	Add with carry, set icc
LD	Load word	SUB	Subtract
LDD	Load doubleword	SUBCC	Subtract, set icc
STB	Store byte	SUBX	Subtract with carry
STH	Store halfword	SUBXCC	Subtract with carry, set icc
STD	Store word	MULSCC	Multiply step, set icc
STDD	Store doubleword	Jump/Branch Instructions	
Shift Instructions		BCC	Branch on condition
SLL	Shift left logical	FBCC	Branch on floating-point condition
SRL	Shift right logical	CBCC	Branch on coprocessor condition
SRA	Shift right arithmetic	CALL	Call procedure
Boolean Instructions		JMPL	Jump and link
AND	AND	TCC	Trap on condition
ANDCC	AND, set icc	SAVE	Advance register window
ANDN	NAND	RESTORE	Move windows backward
ANDNCC	NAND, set icc	RETT	Return from trap
OR	OR	Miscellaneous Instructions	
ORCC	OR, set icc	SETHI	Set high 22 bits
ORN	NOR	UNIMP	Unimplemented instruction (trap)
ORNCC	NOR, set icc	RD	Read a special register
XOR	XOR	WR	Write a special register
XORCC	XOR, set icc	IFLUSH	Instruction cache flush
XNOR	Exclusive NOR		
XNORCC	Exclusive NOR, set icc		