31	25	24	20	19	15	14	12	11	7	6		0	
		imm	n[31:12]						rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{U}$
		imm[20 1]	0:1 11 19:1	2]					rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{UJ}$
imm[11:0]					rs1	fun	ct3		rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{I}$
imm[12 1	0:5]	r	\cdot s2		rs1	fun	ct3	imm	[4:1 11]	op	ocode		$\mathbf{Type}\text{-}\mathbf{SB}$
imm[11	:5]	r	\cdot s2		rs1	fun	ct3	imr	n[4:0]	op	ocode		$\mathbf{Type}\text{-}\mathbf{S}$
funct5	funct2	r	\cdot s2		rs1	fun	ct3		rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{R}$

RV32I Base Integer Instruction Set

		nv 321 Da	se meger m	struction	set		_
		imm[31:12]			rd	0110111	LUI rd, imm
		imm[31:12]			rd	0010111	AUIPC rd, imm
		imm[20 10:1 11 19:1	.2]		rd	1101111	JAL rd, disp
	imm[11	.:0]	rs1	000	rd	1100111	JALR rd, rs1, imm
imm[12 1	0:5]	rs2	rs1	000	imm[4:1 11]	1100011	BEQ rs1, rs2, disp
imm[12 1	0:5]	rs2	rs1	001	imm[4:1 11]	1100011	BNE rs1, rs2, disp
imm[12 1	.0:5]	rs2	rs1	100	imm[4:1 11]	1100011	BLT rs1, rs2, disp
imm[12 1		rs2	rs1	101	imm[4:1 11]	1100011	BGE rs1, rs2, disp
imm[12 1	0:5]	rs2	rs1	110	imm[4:1 11]	1100011	BLTU rs1, rs2, disp
imm[12 1	0:5]	rs2	rs1	111	imm[4:1 11]	1100011	BGEU rs1, rs2, disp
	imm[11	:0]	rs1	000	rd	0000011	LB rd, imm(rs1)
	imm[11	.:0]	rs1	001	rd	0000011	LH rd, imm(rs1)
	imm[11	.:0]	rs1	010	rd	0000011	LW rd, imm(rs1)
	imm[11	.:0]	rs1	100	rd	0000011	LBU rd, imm(rs1)
	imm[11	:0]	rs1	101	rd	0000011	LHU rd, imm(rs1)
imm[11	:5]	rs2	rs1	000	imm[4:0]	0100011	SB rs2, imm(rs1)
imm[11	:5]	rs2	rs1	001	imm[4:0]	0100011	SH rs2, imm(rs1)
imm[11	:5]	rs2	rs1	010	imm[4:0]	0100011	SW rs2, imm(rs1)
	imm[11	:0]	rs1	000	rd	0010011	ADDI rd, rs1, imm
	imm[11	:0]	rs1	010	rd	0010011	SLTI rd, rs1, imm
	imm[11	:0]	rs1	011	rd	0010011	SLTIU rd, rs1, imm
	imm[11	.:0]	rs1	100	rd	0010011	XORI rd, rs1, imm
	imm[11	.:0]	rs1	110	rd	0010011	ORI rd, rs1, imm
	imm[11	:0]	rs1	111	rd	0010011	ANDI rd, rs1, imm
000000	0	shamt5	rs1	001	rd	0010011	SLLI rd, rs1, imm
000000	0	shamt5	rs1	101	rd	0010011	SRLI rd, rs1, imm
010000	0	shamt5	rs1	101	rd	0010011	SRAI rd, rs1, imm
00000	00	rs2	rs1	000	rd	0110011	ADD rd, rs1, rs2
01000	00	rs2	rs1	000	rd	0110011	SUB rd, rs1, rs2
00000	00	rs2	rs1	001	rd	0110011	SLL rd, rs1, rs2
00000	00	rs2	rs1	010	rd	0110011	SLT rd, rs1, rs2
00000	00	rs2	rs1	011	rd	0110011	SLTU rd, rs1, rs2
00000	00	rs2	rs1	100	rd	0110011	XOR rd, rs1, rs2
00000	00	rs2	rs1	101	rd	0110011	SRL rd, rs1, rs2
01000	00	rs2	rs1	101	$^{\mathrm{rd}}$	0110011	SRA rd, rs1, rs2
00000 00		rs2	rs1	110	rd	0110011	OR rd, rs1, rs2
00000	00	rs2	rs1	111	rd	0110011	AND rd, rs1, rs2
0000	pred	pred succ	00000	000	00000	0001111	FENCE none
000000	00	00000	00000	001	00000	0001111	FENCE.I none

RV64I Base Integer Instruction Set (in addition to RV32I)

ir	mm[11:0]	rs1	110	rd	0000011
ir	mm[11:0]	rs1	011	$^{\mathrm{rd}}$	0000011
imm[11:5]	rs2	rs1	011	imm[4:0]	0100011
000000	shamt6	rs1	001	rd	0010011
000000	shamt6	rs1	101	rd	0010011
010000	shamt6	rs1	101	rd	0010011
ir	rs1	000	$^{\mathrm{rd}}$	0011011	
0000000	rs1	001	$_{ m rd}$	0011011	

LWU rd, imm(rs1) LD rd, imm(rs1) SD rs2, imm(rs1) SLLI rd, rs1, imm SRLI rd, rs1, imm SRAI rd, rs1, imm ADDIW rd, rs1, imm SLLIW rd, rs1, imm

31	25	24	20	19	15	14	12	11	7	6		0	
	imm[11:0]			rs		fun	ct3		rd		opcode		Type-I
funct5	funct2	1	rs2	rs		fun	ct3		rd		opcode		Type-R

RV64I Base Integer Instruction Set (in addition to RV32I) contd

0000000		shamt5	rs1	101	rd	0011011
0100000		shamt5	rs1	101	rd	0011011
00000	00	rs2	rs1	000	rd	0111011
01000	00	rs2	rs1	000	rd	0111011
00000	00	rs2	rs1	001	rd	0111011
00000	00	rs2	rs1	101	rd	0111011
01000	00	rs2	rs1	101	rd	0111011

SRLIW rd, rs1, imm SRAIW rd, rs1, imm ADDW rd, rs1, rs2 SUBW rd, rs1, rs2 SLLW rd, rs1, rs2 SRLW rd, rs1, rs2 SRAW rd, rs1, rs2

RV32M Standard Extension for Integer Multiply and Divide

00000	01	rs2	rs1	000	rd	0110011
00000	01	rs2	rs1	001	rd	0110011
00000	01	rs2	rs1	010	rd	0110011
00000	01	rs2	rs1	011	rd	0110011
00000	01	rs2	rs1	100	rd	0110011
00000	01	rs2	rs1	101	rd	0110011
00000	01	rs2	rs1	110	rd	0110011
00000	01	rs2	rs1	111	rd	0110011

MUL rd, rs1, rs2 MULH rd, rs1, rs2 MULHSU rd, rs1, rs2 MULHU rd, rs1, rs2 DIV rd, rs1, rs2 DIVU rd, rs1, rs2 REM rd, rs1, rs2 REMU rd, rs1, rs2

RV64M Standard Extension for Integer Multiply and Divide (in addition to RV32M)

201 0 2112 2000				pro arra z	(1101011 00 101 0=1111)
00000	01	rs2	rs1	000	rd	0111011
00000	01	rs2	rs1	100	rd	0111011
00000	01	rs2	rs1	101	rd	0111011
00000	01	rs2	rs1	110	rd	0111011
00000	01	rs2	rs1	111	$^{\mathrm{rd}}$	0111011

MULW rd, rs1, rs2 DIVW rd, rs1, rs2 DIVUW rd, rs1, rs2 REMW rd, rs1, rs2 REMUW rd, rs1, rs2

RV32A Standard Extension for Atomic Instructions

00010	aqrl	00000	rs1	010	rd	0101111
00011	aqrl	rs2	rs1	010	rd	0101111
00001	aqrl	rs2	rs1	010	rd	0101111
00000	aqrl	rs2	rs1	010	rd	0101111
00100	aqrl	rs2	rs1	010	rd	0101111
01000	aqrl	rs2	rs1	010	rd	0101111
01100	aqrl	rs2	rs1	010	rd	0101111
10000	aqrl	rs2	rs1	010	rd	0101111
10100	aqrl	rs2	rs1	010	rd	0101111
11000	aqrl	rs2	rs1	010	rd	0101111
11100	aqrl	rs2	rs1	010	rd	0101111

LR.W aqrl, rd, (rs1)
SC.W aqrl, rd, rs2, (rs1)
AMOSWAP.W aqrl, rd, rs2, (rs1)
AMOADD.W aqrl, rd, rs2, (rs1)
AMOXOR.W aqrl, rd, rs2, (rs1)
AMOOR.W aqrl, rd, rs2, (rs1)
AMOAND.W aqrl, rd, rs2, (rs1)
AMOMIN.W aqrl, rd, rs2, (rs1)
AMOMAX.W aqrl, rd, rs2, (rs1)
AMOMINU.W aqrl, rd, rs2, (rs1)
AMOMINU.W aqrl, rd, rs2, (rs1)
AMOMINU.W aqrl, rd, rs2, (rs1)
AMOMAXU.W aqrl, rd, rs2, (rs1)

RV64A Standard Extension for Atomic Instructions (in addition to RV32A)

00010	aqrl	00000	rs1	011	rd	0101111
00011	aqrl	rs2	rs1	011	rd	0101111
00001	aqrl	rs2	rs1	011	rd	0101111
00000	aqrl	rs2	rs1	011	rd	0101111
00100	aqrl	rs2	rs1	011	rd	0101111
01000	aqrl	rs2	rs1	011	rd	0101111
01100	aqrl	rs2	rs1	011	rd	0101111
10000	aqrl	rs2	rs1	011	rd	0101111
10100	aqrl	rs2	rs1	011	rd	0101111
11000	aqrl	rs2	rs1	011	rd	0101111
11100	aqrl	rs2	rs1	011	rd	0101111

LR.D aqrl, rd, (rs1)
SC.D aqrl, rd, rs2, (rs1)
AMOSWAP.D aqrl, rd, rs2, (rs1)
AMOADD.D aqrl, rd, rs2, (rs1)
AMOXOR.D aqrl, rd, rs2, (rs1)
AMOOR.D aqrl, rd, rs2, (rs1)
AMOAND.D aqrl, rd, rs2, (rs1)
AMOMIN.D aqrl, rd, rs2, (rs1)
AMOMIN.D aqrl, rd, rs2, (rs1)
AMOMAX.D aqrl, rd, rs2, (rs1)
AMOMINU.D aqrl, rd, rs2, (rs1)
AMOMINU.D aqrl, rd, rs2, (rs1)
AMOMAXU.D aqrl, rd, rs2, (rs1)

3	1	25	24	20	19	15	14	12	11	7	6		0	
		imm[11:0]			ı	rs1	fun	ct3		rd		opcode		Type-I
	imm[11	:5]	1	rs2	r	rs1	fun	ct3	im	m[4:0]		opcode		$\mathbf{Type}\text{-}\mathbf{S}$
	rs3	funct2	1	rs2	r	rs1	fun	ct3		rd		opcode		Type-R4
	funct5	funct2	1	rs2	1	rs1	fun	ct3		rd		opcode		$\mathbf{Type}\text{-}\mathbf{R}$

RV32S Standard Extension for Supervisor-level Instructions

0000000	00000	00000	000	00000	1110011
0000000	00001	00000	000	00000	1110011
0000000	00010	00000	000	00000	1110011
0001000	00000	00000	000	00000	1110011
0010000	00010	00000	000	00000	1110011
0011000	00010	00000	000	00000	1110011
0111101	10010	00000	000	00000	1110011
0001000	00001	rs1	000	00000	1110011
0001000	00010	00000	000	00000	1110011
csr		rs1	001	rd	1110011
csr		rs1	010	rd	1110011
csr		rs1	011	rd	1110011
csr	zimm	101	rd	1110011	
csr	zimm	110	rd	1110011	
csr	zimm	111	rd	1110011	

ECALL none
EBREAK none
URET none
SRET none
HRET none
MRET none
DRET none
SFENCE.VM none
WFI none
CSRRW rd, csr, rs1
CSRRS rd, csr, rs1
CSRRC rd, csr, rs1
CSRRWI rd, csr, imm5
CSRRSI rd, csr, imm5
CSRRCI rd, csr, imm5

RV32F Standard Extension for Single-Precision Floating-Point

	imm[11:0]]	rs1	010	frd	0000111
imm[11	٠ .	frs2	rs1	010	imm[4:0]	0100111
frs3	00	frs2	frs1	rm	frd	1000011
frs3	00	frs2	frs1		frd	1000011
frs3				rm	frd	
	00	frs2	frs1	rm		1001011
frs3	00	frs2	frs1	rm	frd	1001111
00000	00	frs2	frs1	rm	frd	1010011
00001	00	frs2	frs1	rm	frd	1010011
00010	00	frs2	frs1	rm	frd	1010011
00011	00	frs2	frs1	rm	frd	1010011
00100	00	frs2	frs1	000	frd	1010011
00100	00	frs2	frs1	001	frd	1010011
00100	00	frs2	frs1	010	frd	1010011
00101	00	frs2	frs1	000	frd	1010011
00101	00	frs2	frs1	001	frd	1010011
01011	00	00000	frs1	rm	frd	1010011
10100	00	frs2	frs1	000	rd	1010011
10100	00	frs2	frs1	001	rd	1010011
10100	00	frs2	frs1	010	rd	1010011
11000	00	00000	frs1	rm	rd	1010011
11000	00	00001	frs1	rm	rd	1010011
11010	00	00000	rs1	rm	frd	1010011
11010	00	00001	rs1	rm	frd	1010011
11100	00	00000	frs1	000	rd	1010011
11100	00	00000	frs1	001	rd	1010011
11110	00	00000	rs1	000	frd	1010011
0	000000000	11	00000	010	rd	1110011
0	000000000	10	00000	010	rd	1110011
0	00000000001			010	rd	1110011
0	000000000	11	rs1	001	rd	1110011
0	000000000	10	rs1	001	rd	1110011
			1	1	l .	

FLW frd, imm(rs1) FSW frs2, imm(rs1) ${\rm FMADD.S\ rm,\ frd,\ frs1,\ frs2,\ frs3}$ $FMSUB.S\ rm,\ frd,\ frs1,\ frs2,\ frs3$ $FNMSUB.S\ rm,\ frd,\ frs1,\ frs2,\ frs3$ $FNMADD.S\ rm,\ frd,\ frs1,\ frs2,\ frs3$ ${\rm FADD.S\ rm,\ frd,\ frs1,\ frs2}$ FSUB.S rm, frd, frs1, frs2 FMUL.S rm, frd, frs1, frs2 FDIV.S rm, frd, frs1, frs2 $FSGNJ.S\ frd,\ frs1,\ frs2$ FSGNJN.S frd, frs1, frs2 $FSGNJX.S\ frd,\ frs1,\ frs2$ $FMIN.S\ frd,\ frs1,\ frs2$ FMAX.S frd, frs1, frs2 FSQRT.S rm, frd, frs1 FLE.S rd, frs1, frs2 $FLT.S\ rd,\ frs1,\ frs2$ $\rm FEQ.S\ rd,\ frs1,\ frs2$ $FCVT.W.S\ rm,\ rd,\ frs1$ FCVT.WU.S rm, rd, frs1 FCVT.S.W rm, frd, rs1 FCVT.S.WU rm, frd, rs1 FMV.X.S rd, frs1 $FCLASS.S\ rd,\ frs1$ $FMV.S.X\ frd,\ rs1$ FRCSR rd, csr, rs1 FRRM rd, csr, rs1 ${\rm FRFLAGS}\ {\rm rd},\ {\rm csr},\ {\rm rs1}$ FSCSR rd, csr, rs1

 $FSRM\ rd,\ csr,\ rs1$

31	25	24	20	19		15	14	12	11	7	6		0	
	imm[11:0]				rs1		func	et3		$^{\mathrm{rd}}$		opcode		Type-I
funct5	funct2	rs	s2		rs1		func	ct3		$^{\mathrm{rd}}$		opcode		$\mathbf{Type}\text{-}\mathbf{R}$
imm[11	:5]	rs	s2		rs1		func	ct3	in	nm[4:0]		opcode		Type-S
rs3	funct2	rs	s2		rs1		func	ct3		rd		opcode		Type-R4

RV32F Standard Extension for Single-Precision Floating-Point contd

00000000001	rs1	001	rd	1110011	FSFLAGS rd, csr, rs1
00000000010	zimm	101	rd	1110011	FSRMI rd, csr, imm5
00000000001	zimm	101	rd	1110011	FSFLAGSI rd, csr, imm5

RV64F Standard Extension for Single-Precision Floating-Point (in addition to RV32F)

			0		•	,	
11000	00	00010	frs1	rm	rd	1010011	FCVT.L.S rm, rd, frs1
11000	00	00011	frs1	rm	rd	1010011	FCVT.LU.S rm, rd, frs1
11010	00	00010	rs1	rm	frd	1010011	FCVT.S.L rm, frd, rs1
11010	00	00011	rs1	rm	frd	1010011	FCVT.S.LU rm, frd, rs1

RV32D Standard Extension for Double-Precision Floating-Point

	imm[11:0]		rs1	011	frd	0000111	FLD frd, imm(rs1)
imm[11	imm[11:5] frs2		rs1	011	imm[4:0]	0100111	FSD frs2, imm(rs1)
frs3	01	frs2	frs1	rm	frd	1000011	FMADD.D rm, frd, frs1, frs2, frs3
frs3	01	frs2	frs1	rm	frd	1000111	FMSUB.D rm, frd, frs1, frs2, frs3
frs3	01	frs2	frs1	rm	frd	1001011	FNMSUB.D rm, frd, frs1, frs2, frs3
frs3	01	frs2	frs1	rm	frd	1001111	FNMADD.D rm, frd, frs1, frs2, frs3
00000	01	frs2	frs1	rm	frd	1010011	FADD.D rm, frd, frs1, frs2
00001	01	frs2	frs1	rm	frd	1010011	FSUB.D rm, frd, frs1, frs2
00010	01	frs2	frs1	rm	frd	1010011	FMUL.D rm, frd, frs1, frs2
00011	01	frs2	frs1	rm	frd	1010011	FDIV.D rm, frd, frs1, frs2
00100	01	frs2	frs1	000	frd	1010011	FSGNJ.D frd, frs1, frs2
00100	01	frs2	frs1	001	frd	1010011	FSGNJN.D frd, frs1, frs2
00100	01	frs2	frs1	010	frd	1010011	FSGNJX.D frd, frs1, frs2
00101	01	frs2	frs1	000	frd	1010011	FMIN.D frd, frs1, frs2
00101	01	frs2	frs1	001	frd	1010011	FMAX.D frd, frs1, frs2
01000	00	00001	frs1	rm	frd	1010011	FCVT.S.D rm, frd, frs1
01000	01	00000	frs1	rm	frd	1010011	FCVT.D.S rm, frd, frs1
01011	01	00000	frs1	rm	frd	1010011	FSQRT.D rm, frd, frs1
10100	01	frs2	frs1	000	rd	1010011	FLE.D rd, frs1, frs2
10100	01	frs2	frs1	001	rd	1010011	FLT.D rd, frs1, frs2
10100	01	frs2	frs1	010	rd	1010011	FEQ.D rd, frs1, frs2
11000	01	00000	frs1	rm	rd	1010011	FCVT.W.D rm, rd, frs1
11000	01	00001	frs1	rm	rd	1010011	FCVT.WU.D rm, rd, frs1
11010	01	00000	rs1	rm	frd	1010011	FCVT.D.W rm, frd, rs1
11010	01	00001	rs1	rm	frd	1010011	FCVT.D.WU rm, frd, rs1
11100	01	00000	frs1	001	rd	1010011	FCLASS.D rd, frs1

RV64D Standard Extension for Double-Precision Floating-Point (in addition to RV32D)

11000	01	00010	frs1	rm	rd	1010011	I
11000	01	00011	frs1	rm	rd	1010011	Ι
11100	01	00000	frs1	000	rd	1010011	Ι
11010	01	00010	rs1	rm	frd	1010011	I
11010	01	00011	rs1	rm	frd	1010011	I
11110	01	00000	rs1	000	frd	1010011	I

FCVT.L.D rm, rd, frs1 FCVT.LU.D rm, rd, frs1 FMV.X.D rd, frs1 FCVT.D.L rm, frd, rs1 FCVT.D.LU rm, frd, rs1 FMV.D.X frd, rs1

15	13	12	10	9 7	6 5	4 2	1 0	
	funct3			imm8		rd'	op	Type-CIW
	funct3	im	ım3	rs1'	imm2	rd'	op	$\mathbf{Type}\text{-}\mathbf{CL}$
	funct3	im	m3	rs1'	imm2	rs2'	op	Type-CS
	funct3	imm1		rd/rs1		imm5	op	Type-CI
	funct3			imm11			op	Type-CJ
	funct3	imm3		rs1'		imm5	op	Type-CB
	funct4			rd/rs1	rs2		op	Type-CR
	funct3 imm6			6		rs2	op	Type-CSS

RV32C Standard Extension for Compressed Instructions

	RV32C S	standard E	xtension for Cor	npressed In			_
000			n[5:4 9:6 2 3]		rd'	00	C.ADDI4SPN rd, rs1, imm
001	imn	n[5:3]	rs1'	imm[7:6]	frd'	00	C.FLD frd, imm(rs1)
010	imn	n[5:3]	rs1'	imm[2 6]	rd'	00	C.LW rd, imm(rs1)
011		n[5:3]	rs1'	imm[2 6]	frd'	00	C.FLW frd, imm(rs1)
101		n[5:3]	rs1'	imm[7:6]	frs2'	00	C.FSD frs2, imm(rs1)
110		n[5:3]	rs1'	imm[2 6]	rs2'	00	C.SW rs2, imm(rs1)
111	imn	n[5:3]	rs1'	imm[2 6]	frs2'	00	C.FSW frs2, imm(rs1)
000	0		00000		00000	01	C.NOP none
000	imm[5]		rs1/rd		mm[4:0]	01	C.ADDI rd, rs1, imm
001			imm[11 4 9:8 10 6			01	C.JAL rd, disp
010	imm[5]		rs1/rd	i	mm[4:0]	01	C.LI rd, rs1, imm
011	imm[17]		rd	im	nm[16:12]	01	C.LUI rd, imm
011	imm[9]		rs1/rd	imn	n[4 6 8:7 5]	01	C.ADDI16SP rd, rs1, imm
100	imm[5]	00	rs1'/rd'		mm[4:0]	01	C.SRLI rd, rs1, imm
100	imm[5]	01	rs1'/rd'	i	mm[4:0]	01	C.SRAI rd, rs1, imm
100	imm[5]	10	rs1'/rd'	i	mm[4:0]	01	C.ANDI rd, rs1, imm
100	0	11	rs1'/rd'	00	rs2'	01	C.SUB rd, rs1, rs2
100	0	11	rs1'/rd'	01	rs2'	01	C.XOR rd, rs1, rs2
100	0	11	rs1'/rd'	10	rs2'	01	C.OR rd, rs1, rs2
100	0	11	rs1'/rd'	11	rs2'	01	C.AND rd, rs1, rs2
100		11	rs1'/rd'	00	rs2'	01	C.SUBW rd, rs1, rs2
100	1	11	rs1'/rd'	01	rs2'	01	C.ADDW rd, rs1, rs2
101			imm[11 4 9:8 10 6			01	C.J rd, disp
110		[8 4:3]	rs1'	imm[7:6 2:1 5]		01	C.BEQZ rs1, rs2, disp
111	imm	[8 4:3]	rs1'	imm[7:6 2:1 5]		01	C.BNEZ rs1, rs2, disp
000	imm[5]		rs1/rd	imm[4:0]		10	C.SLLI rd, rs1, imm
001	imm[5]		frd	im	m[4:3 8:6]	10	C.FLDSP frd, imm(rs1)
010	imm[5]		rd	im	m[4:2 7:6]	10	C.LWSP rd, imm(rs1)
011	imm[5]		frd	im	m[4:2 7:6]	10	C.FLWSP frd, imm(rs1)
100	rd,		rs1		00000	10	C.JR rd, rs1, imm
1000			rd		rs2	10	C.MV rd, rs1, rs2
100	1		00000		00000	10	C.EBREAK none
100	rd,		rs1		00000	10	C.JALR rd, rs1, imm
1001			rs1/rd		rs2	10	C.ADD rd, rs1, rs2
101		imm[5:3	[8:6]		frs2	10	C.FSDSP frs2, imm(rs1)
110		imm[5:2			rs2	10	C.SWSP rs2, imm(rs1)
111		imm[5:2	[7:6]		frs2		C.FSWSP frs2, imm(rs1)

RV64C Standard Extension for Compressed Instructions (in addition to RV32C)

011	$_{ m imm}$	[5:3]	rs1'	imm[7:6]	rd'	00	
111	imm	[5:3]	rs1'	imm[7:6]	rs2'	00	7
001	imm[5]		rs1/rd	imm[4:0]		01	1
011	imm[5]		rd	imı	m[4:3 8:6]	10	
111		imm[5:3	[8:6]		rs2	10	1

C.LD rd, imm(rs1)
C.SD rs2, imm(rs1)
C.ADDIW rd, rs1, imm
C.LDSP rd, imm(rs1)
C.SDSP rs2, imm(rs1)