31	25	24	20	19	15	14	12	11	7	6		0	
imm[31:12]									rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{U}$
imm[20 10:1 11 19:12]								rd	op	ocode		$\mathbf{Type}\text{-}\mathbf{UJ}$	
	imm[11:0] rs1 funct3								rd	op	ocode		Type-I
imm[12 1	0:5]	r	·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	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	mm[11:0]	rs1	000	$^{\mathrm{rd}}$	0011011
0000000	shamt5	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
010000	0100000		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
imm[11:0]		rs1	001	rd	1110011
imm[11:0]		rs1	010	rd	1110011
imm[11:0]		rs1	011	rd	1110011
imm[11:0]		imm5	101	rd	1110011
imm[11:0]		imm5	110	rd	1110011
imm[11:0]		imm5	111	rd	1110011

ECALL none EBREAK none URET none ${\it SRET}$ none HRET none MRET none DRET none SFENCE.VM none WFI none ${\rm CSRRW}\ {\rm rd},\ {\rm csr},\ {\rm rs1}$ $CSRRS\ rd,\ csr,\ rs1$ ${\rm CSRRC\ rd,\ csr,\ rs1}$ $CSRRWI\ rd,\ csr,\ imm5$ CSRRSI rd, csr, imm5 CSRRCI rd, csr, imm5

RV32F Standard Extension for Single-Precision Floating-Point

	RV32F Standard Extension for Single-Precision Floating-Point											
	imm[11:0]		rs1	010	frd	0000111	FLW frd, imm(rs1)					
imm[11	.:5]	frs2	rs1	010	imm[4:0]	0100111	FSW frs2, imm(rs1)					
frs3	00	frs2	frs1	rm	frd	1000011	FMADD.S rm, frd, frs1, frs2, fr					
frs3	00	frs2	frs1	rm	frd	1000111	FMSUB.S rm, frd, frs1, frs2, frs					
frs3	00	frs2	frs1	rm	frd	1001011	FNMSUB.S rm, frd, frs1, frs2, f					
frs3	00	frs2	frs1	rm	frd	1001111	FNMADD.S rm, frd, frs1, frs2,					
00000	00	frs2	frs1	rm	frd	1010011	FADD.S rm, frd, frs1, frs2					
00001	00	frs2	frs1	rm	frd	1010011	FSUB.S rm, frd, frs1, frs2					
00010	00	frs2	frs1	rm	frd	1010011	FMUL.S rm, frd, frs1, frs2					
00011	00	frs2	frs1	rm	frd	1010011	FDIV.S rm, frd, frs1, frs2					
00100	00	frs2	frs1	000	frd	1010011	FSGNJ.S rm, frd, frs1, frs2					
00100	00	frs2	frs1	001	frd	1010011	FSGNJN.S rm, frd, frs1, frs2					
00100	00	frs2	frs1	010	frd	1010011	FSGNJX.S rm, frd, frs1, frs2					
00101	00	frs2	frs1	000	frd	1010011	FMIN.S rm, frd, frs1, frs2					
00101	00	frs2	frs1	001	frd	1010011	FMAX.S rm, frd, frs1, frs2					
01011	00	00000	rs1	rm	rd	1010011	FSQRT.S rm, frd, frs1, frs2					
10100	00	frs2	frs1	000	rd	1010011	FLE.S rd, frs1, frs2					
10100	00	frs2	frs1	001	rd	1010011	FLT.S rd, frs1, frs2					
10100	00	frs2	frs1	010	rd	1010011	FEQ.S rd, frs1, frs2					
11000	00	00000	frs1	rm	rd	1010011	FCVT.W.S rm, rd, frs1					
11000	00	00001	frs1	rm	rd	1010011	FCVT.WU.S rm, rd, frs1					
11010	00	00000	rs1	rm	frd	1010011	FCVT.S.W rm, frd, rs1					
11010	00	00001	rs1	rm	frd	1010011	FCVT.S.WU rm, frd, rs1					
11100	00	00000	frs1	000	rd	1010011	FMV.X.S rd, frs1					
11100	00	00000	frs1	001	rd	1010011	FCLASS.S rd, frs1					
11110	00	00000	rs1	000	frd	1010011	FMV.S.X frd, rs1					
0	000000000	11	00000	010	rd	1110011	FRCSR rd, csr, rs1					
0	000000000	10	00000	010	rd	1110011	FRRM rd, csr, rs1					
0	000000000	01	00000	010	rd	1110011	FRFLAGS rd, csr, rs1					
0	000000000	11	rs1	001	rd	1110011	FSCSR rd, csr, rs1					
0	000000000	10	rs1	001	rd	1110011	FSRM rd, csr, rs1					
				*		•	_					

frs3rs3frs3e, frs3

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

RV32F Standard Extension for Single-Precision Floating-Point contd

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

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

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	: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 rm, frd, frs1, frs2
00100	01	frs2	frs1	001	frd	1010011	FSGNJN.D rm, frd, frs1, frs2
00100	01	frs2	frs1	010	frd	1010011	FSGNJX.D rm, frd, frs1, frs2
00101	01	frs2	frs1	000	frd	1010011	FMIN.D rm, frd, frs1, frs2
00101	01	frs2	frs1	001	frd	1010011	FMAX.D rm, 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	trs1	$^{\mathrm{rm}}$	rd	1010011
11000	01	00011	frs1	rm	rd	1010011
11100	01	00000	frs1	000	rd	1010011
11010	01	00010	rs1	rm	frd	1010011
11010	01	00011	rs1	rm	frd	1010011
11110	01	00000	rs1	000	frd	1010011

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	in	nm3	rs1'	imm2	rd'	op	Type-CL
funct3	in	nm3	rs1'	imm2	rs2'	op	Type-CS
funct3	imm1		rd/rs1		imm5	op	Type-CI
funct3			imm11			op	Type-CJ
funct3	in	nm3	rs1'		imm5	op	Type-CB
funct4	=		rd/rs1		rs2		Type-CR
funct3		imm	6		rs2		Type-CSS

RV32C Standard Extension for Compressed Instructions

	RV32C S	itandard E	xtension for Cor	npressed In	structions		
000			n[5:4 9:6 2 3]		rd'	00	C.ADDI4SPN rd, rs1, imm
001	imn	n[5:3]	rs1'	imm[7:6]	rd'	00	C.FLD frd, imm(rs1)
010	imn	n[5:3]	rs1'	imm[2 6]	rd'	00	C.LW rd, imm(rs1)
011	imn	n[5:3]	rs1'	imm[2 6]	rd'	00	C.FLW frd, imm(rs1)
101		n[5:3]	rs1'	imm[7:6]	rs2'	00	C.FSD frs2, imm(rs1)
110	imn	n[5:3]	rs1'	imm[2 6]	rs2'	00	C.SW rs2, imm(rs1)
111	imn	n[5:3]	rs1'	imm[2 6]	rs2'	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	7[3:1[5]		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'		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		[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]		rd	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]		rd	im	m[4:2 7:6]	10	C.FLWSP frd, imm(rs1)
1000			rs1		00000	10	C.JR rd, rs1, imm
1000			rd		rs2	10	C.MV rd, rs1, rs2
100	100 1		00000		00000	10	C.EBREAK none
1001			rs1		00000	10	C.JALR rd, rs1, imm
1001			rs1/rd		rs2	10	C.ADD rd, rs1, rs2
101		imm[5:3	[8:6]		rs2	10	C.FSDSP frs2, imm(rs1)
110		imm[5:2			rs2	10	C.SWSP rs2, imm(rs1)
111		imm[5:2	[7:6]		rs2	10	C.FSWSP frs2, imm(rs1)

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

011	imn	n[5:3]	rs1'	imm[7:6]	rd'	00	
111	imm[5:3]		rs1'	imm[7:6] rs2'		00	7
001	imm[5]	rs1/rd		ir	01	1	
011	imm[5]	rd		imm[4:3 8:6]		10	1
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)