31	25	24	20	19	15	14	12	11	7	6	0	
			imm[31:12]		rd	opcode		Type-U				
		imm[20 10:1 11 19:1	2]					rd	opcode		Type-UJ
	imm[11]	1:0]			rs1	fun	.ct3		rd	opcode		Type-I
imm[12 1	.0:5]		rs2		rs1	fun	.ct3	imr	n[4:1 11]	opcode		Type-SB
imm[11	:5]		rs2		rs1	fun	.ct3	in	nm[4:0]	opcode		Type-S
funct5	funct2		rs2		rs1	fun	ct3		rd	opcode		Type-R

RV32I Base Integer Instruction Set

imm[31:12] rd 0110111 I											
			m[31:12]			rd	0010111	LUI rd, imm AUIPC rd, offset			
			10:1 11 19:1	2]		rd	1101111	JAL rd, offset			
	imm[11		1011 11 1011	rs1	000	rd	1100111	JALR rd, rs1, offset			
imm[12 1			rs2	rs1	000	imm[4:1 11]	1100011	BEQ rs1, rs2, offset			
imm[12]			rs2	rs1	001	imm[4:1 11]	1100011	BNE rs1, rs2, offset			
$\lim_{t\to 0} 12 1$			rs2	rs1	100	imm[4:1 11]	1100011	BLT rs1, rs2, offset			
L 1			rs2	rs1	101	imm[4:1 11]	1100011	BGE rs1, rs2, offset			
imm[12]			rs2	rs1	110	imm[4:1 11]	1100011	BLTU rs1, rs2, offset			
imm[12]			rs2	rs1	111	imm[4:1 11]	1100011	BGEU rs1, rs2, offset			
mini[12]	imm[11	·0]	102	rs1	000	rd	0000011	LB rd, offset(rs1)			
	imm[11			rs1	001	rd	0000011	LH rd, offset(rs1)			
	imm[11			rs1	010	rd	0000011	LW rd, offset(rs1)			
	imm[11			rs1	100	rd	0000011	LBU rd, offset(rs1)			
	imm[11	3		rs1	100	rd	0000011	LHU rd, offset(rs1)			
imm[11		.0]	rs2	rs1	000	imm[4:0]	0100011	SB rs2, offset(rs1)			
imm[11			rs2	rs1	000	imm[4:0]	0100011	SH rs2, offset(rs1)			
imm[11			rs2	rs1	010	imm[4:0]	0100011	1 1			
1111111[11	imm[11	.0]	182	rs1	000	rd	0010011	SW rs2, offset(rs1)			
	imm[11				010	rd	0010011	ADDI rd, rs1, imm			
		,		rs1	010	rd	0010011	SLTI rd, rs1, imm			
	imm[11			rs1				SLTIU rd, rs1, imm			
	imm[11	J		rs1	100	rd	0010011	XORI rd, rs1, imm			
	imm[11			rs1	110	rd	0010011	ORI rd, rs1, imm			
000000	imm[11		1 45	rs1	111	rd	0010011	ANDI rd, rs1, imm			
000000	0		hamt5	rs1	001	rd	0010011	SLLI rd, rs1, imm			
000000	0		hamt5	rs1	101	rd	0010011	SRLI rd, rs1, imm			
010000	0	S.	hamt5	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	1 1			00000	000	00000	0001111	FENCE			
000000	(00000	00000	001	00000	0001111	FENCE.I				

RV64I Base Integer Instruction Set (in addition to RV32I)

ir	mm[11:0]	rs1	110	rd	0000011
ir	mm[11:0]	rs1	011	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	rd	0011011
0000000	shamt5	rs1	001	rd	0011011
0000000	shamt5	rs1	101	rd	0011011
0100000	shamt5	rs1	101	rd	0011011

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

31	25	24	20	19	15	14	12	11	7	6		0	
funct5	funct2	rs2		r	s1	fun	ct3		$^{\mathrm{rd}}$		opcode		$_{ m Type-R}$

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

00000	00	rs2	rs1	000	rd	0111011	ADDW rd, rs1, rs2
01000	00	rs2	rs1	000	rd	0111011	SUBW rd, rs1, rs2
00000	00	rs2	rs1	001	rd	0111011	SLLW rd, rs1, rs2
00000	00	rs2	rs1	101	rd	0111011	SRLW rd, rs1, rs2
01000	00	rs2	rs1	101	rd	0111011	SRAW rd, rs1, rs2

RV32M Standard Extension for Integer Multiply and Divide

00000	01	rs2	rs1	000	rd	0110011	MUL rd, rs1, rs2
00000	01	rs2	rs1	001	rd	0110011	MULH rd, rs1, rs2
00000	01	rs2	rs1	010	rd	0110011	MULHSU rd, rs1, rs2
00000	01	rs2	rs1	011	rd	0110011	MULHU rd, rs1, rs2
00000	01	rs2	rs1	100	rd	0110011	DIV rd, rs1, rs2
00000	01	rs2	rs1	101	rd	0110011	DIVU rd, rs1, rs2
00000	01	rs2	rs1	110	rd	0110011	REM rd, rs1, rs2
00000	01	rs2	rs1	111	rd	0110011	REMU rd, rs1, rs2

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

	00000	01	rs2	rs1	000	rd	0111011	MULW rd, rs1, rs2
ĺ	00000	01	rs2	rs1	100	rd	0111011	DIVW rd, rs1, rs2
Ì	00000	01	rs2	rs1	101	rd	0111011	DIVUW rd, rs1, rs2
ĺ	00000	01	rs2	rs1	110	rd	0111011	REMW rd, rs1, rs2
ĺ	00000	01	rs2	rs1	111	rd	0111011	REMUW rd, rs1, rs2

RV32A Standard Extension for Atomic Instructions

00010	aq	rl	00000	rs1	010	rd	0101111	LR.W aqrl, rd, (rs1)
00011	aq	rl	rs2	rs1	010	rd	0101111	SC.W aqrl, rd, rs2, (rs1)
00001	aq	rl	rs2	rs1	010	rd	0101111	AMOSWAP.W aqrl, rd, rs2, (rs1)
00000	aq	rl	rs2	rs1	010	rd	0101111	AMOADD.W aqrl, rd, rs2, (rs1)
00100	aq	rl	rs2	rs1	010	rd	0101111	AMOXOR.W aqrl, rd, rs2, (rs1)
01000	aq	rl	rs2	rs1	010	rd	0101111	AMOOR.W aqrl, rd, rs2, (rs1)
01100	aq	rl	rs2	rs1	010	rd	0101111	AMOAND.W aqrl, rd, rs2, (rs1)
10000	aq	rl	rs2	rs1	010	rd	0101111	AMOMIN.W aqrl, rd, rs2, (rs1)
10100	aq	rl	rs2	rs1	010	rd	0101111	AMOMAX.W aqrl, rd, rs2, (rs1)
11000	aq	rl	rs2	rs1	010	rd	0101111	AMOMINU.W aqrl, rd, rs2, (rs1)
11100	aq	rl	rs2	rs1	010	$^{\mathrm{rd}}$	0101111	AMOMAXU.W aqrl, rd, rs2, (rs1)

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

							,	
00010	aq	rl	00000	rs1	011	rd	0101111	LR.D aqrl, rd, (rs1)
00011	aq	rl	rs2	rs1	011	rd	0101111	SC.D aqrl, rd, rs2, (rs1)
00001	aq	rl	rs2	rs1	011	rd	0101111	AMOSWAP.D aqrl, rd, rs2, (rs1)
00000	aq	rl	rs2	rs1	011	rd	0101111	AMOADD.D aqrl, rd, rs2, (rs1)
00100	aq	rl	rs2	rs1	011	rd	0101111	AMOXOR.D aqrl, rd, rs2, (rs1)
01000	aq	rl	rs2	rs1	011	rd	0101111	AMOOR.D aqrl, rd, rs2, (rs1)
01100	aq	rl	rs2	rs1	011	rd	0101111	AMOAND.D aqrl, rd, rs2, (rs1)
10000	aq	rl	rs2	rs1	011	rd	0101111	AMOMIN.D aqrl, rd, rs2, (rs1)
10100	aq	rl	rs2	rs1	011	rd	0101111	AMOMAX.D aqrl, rd, rs2, (rs1)
11000	aq	rl	rs2	rs1	011	rd	0101111	AMOMINU.D aqrl, rd, rs2, (rs1)
11100	aq	rl	rs2	rs1	011	rd	0101111	AMOMAXU.D aqrl, rd, rs2, (rs1)

31		25	24	20	19	1	5	14	12	11	7	6		0	
		imm[11:0]				rs1		func	ct3		$^{\mathrm{rd}}$		opcode		Type-I
	imm[11:	:5]		rs2		rs1		func	ct3	im	m[4:0]		opcode		Type-S
	rs3	funct2		rs2		rs1		func	ct3		rd		opcode		Type-R4
f	unct5	funct2		rs2		rs1		func	ct3		rd		opcode		$\mathbf{Type}\text{-}\mathbf{R}$

RV32S Standard Extension for Supervisor-level Instructions

0000000	00000	00000	000	00000	1110011	E
0000000	00001	00000	000	00000	1110011	E
0000000	00010	00000	000	00000	1110011	τ
0001000	00000	00000	000	00000	1110011	S
0010000	00010	00000	000	00000	1110011	E
0011000	00010	00000	000	00000	1110011	N
0111101	10010	00000	000	00000	1110011	Г
0001000	00001	rs1	000	00000	1110011	S
0001000	00010	00000	000	00000	1110011	V
csr		rs1	001	rd	1110011	C
csr		rs1	010	rd	1110011	C
csr		rs1	011	rd	1110011	C
csr		zimm	101	rd	1110011	C
csr		zimm	110	rd	1110011	C
csr		zimm	111	rd	1110011] c
						,

ECALL
EBREAK
URET
SRET
HRET
HRET
MRET
DRET
SFENCE.VM
WFI
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	FLW frd, offset(rs1)
imm[11	:5]	frs2	rs1	010	imm[4:0]	0100111	FSW frs2, offset(rs1)
frs3	00	frs2	frs1	rm	frd	1000011	FMADD.S rm, frd, frs1, frs2, frs3
frs3	00	frs2	frs1	rm	frd	1000111	FMSUB.S rm, frd, frs1, frs2, frs3
frs3	00	frs2	frs1	rm	frd	1001011	FNMSUB.S rm, frd, frs1, frs2, frs3
frs3	00	frs2	frs1	rm	frd	1001111	FNMADD.S rm, frd, frs1, frs2, frs3
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 frd, frs1, frs2
00100	00	frs2	frs1	001	frd	1010011	FSGNJN.S frd, frs1, frs2
00100	00	frs2	frs1	010	frd	1010011	FSGNJX.S frd, frs1, frs2
00101	00	frs2	frs1	000	frd	1010011	FMIN.S frd, frs1, frs2
00101	00	frs2	frs1	001	frd	1010011	FMAX.S frd, frs1, frs2
01011	00	00000	frs1	rm	frd	1010011	FSQRT.S rm, frd, frs1
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

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

11000	00	00010	frs1	rm	rd	1010011	
11000	00	00011	frs1	rm	rd	1010011	1
11010	00	00010	rs1	rm	frd	1010011	1
11010	00	00011	rs1	rm	frd	1010011	1

FCVT.L.S rm, rd, frs1 FCVT.LU.S rm, rd, frs1 FCVT.S.L rm, frd, rs1 FCVT.S.LU rm, frd, rs1

31		25	24	20	19	15	14	12	11	7	6	()
	i	imm[11:0]			rs	1	fun	.ct3	1	rd		opcode	Type-I
	imm[11:	:5]	r	s2	rs	1	fun	.ct3	imn	n[4:0]		opcode	Type-S
	rs3	funct2	r	s2	rs	1	fun	.ct3	1	rd		opcode	Type-R4
f	unct5	funct2	r	s2	rs	1	fun	ct3	r	rd		opcode	Type-R

RV32D Standard Extension for Double-Precision Floating-Point

		RV32D	Standard Ex	tension for D	ouble-Pre	ecision Floatii	ng-Point	
		imm[11:0		rs1	011	frd	0000111	F
imm[11:5]		frs2	rs1	011	imm[4:0]	0100111	F	
	frs3	01	frs2	frs1	rm	frd	1000011	F
	frs3	01	frs2	frs1	rm	frd	1000111	F
	frs3	01	frs2	frs1	rm	frd	1001011	F
	frs3	01	frs2	frs1	rm	frd	1001111	F
	00000	01	frs2	frs1	rm	frd	1010011	F
	00001	01	frs2	frs1	rm	frd	1010011	F
	00010	01	frs2	frs1	rm	frd	1010011	F
	00011	01	frs2	frs1	rm	frd	1010011	F
	00100	01	frs2	frs1	000	frd	1010011	F
	00100	01	frs2	frs1	001	frd	1010011	F
	00100	01	frs2	frs1	010	frd	1010011	F
	00101	01	frs2	frs1	000	frd	1010011	F
	00101	01	frs2	frs1	001	frd	1010011	F
	01000	00	00001	frs1	rm	frd	1010011	F
	01000	01	00000	frs1	rm	frd	1010011	F
	01011	01	00000	frs1	rm	frd	1010011	F
	10100	01	frs2	frs1	000	rd	1010011	F
	10100	01	frs2	frs1	001	rd	1010011	F
	10100	01	frs2	frs1	010	rd	1010011	F
	11000	01	00000	frs1	rm	rd	1010011	F
	11000	01	00001	frs1	rm	rd	1010011	F
	11010	01	00000	rs1	rm	frd	1010011	F
	11010	01	00001	rs1	rm	frd	1010011	F
	11100	01	00000	frs1	001	rd	1010011	F

FLD frd, offset(rs1) FSD frs2, offset(rs1) FMADD.D rm, frd, frs1, frs2, frs3 $FMSUB.D\ rm,\ frd,\ frs1,\ frs2,\ frs3$ FNMSUB.D rm, frd, frs1, frs2, frs3 $FNMADD.D\ rm,\ frd,\ frs1,\ frs2,\ frs3$ FADD.D rm, frd, frs1, frs2 FSUB.D rm, frd, frs1, frs2 FMUL.D rm, frd, frs1, frs2 $FDIV.D\ rm,\ frd,\ frs1,\ frs2$ FSGNJ.D frd, frs1, frs2 $FSGNJN.D\ frd,\,frs1,\,frs2$ FSGNJX.D frd, frs1, frs2 FMIN.D frd, frs1, frs2 $FMAX.D\ frd,\ frs1,\ frs2$ $FCVT.S.D\ rm,\ frd,\ frs1$ $FCVT.D.S\ rm,\ frd,\ frs1$ $FSQRT.D\ rm,\ frd,\ frs1$ $FLE.D\ rd,\ frs1,\ frs2$ FLT.D rd, frs1, frs2 $FEQ.D\ rd,\ frs1,\ frs2$ $FCVT.W.D\ rm,\ rd,\ frs1$ $FCVT.WU.D\ rm,\ rd,\ frs1$ $FCVT.D.W\ rm,\ frd,\ rs1$ $FCVT.D.WU\ rm,\ frd,\ rs1$ $FCLASS.D\ rd,\ frs1$

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

01	00010	frs1	$^{ m rm}$	rd	1010011
01	00011	frs1	$^{ m rm}$	rd	1010011
01	00000	frs1	000	rd	1010011
01	00010	rs1	rm	frd	1010011
01	00011	rs1	$^{ m rm}$	frd	1010011
01	00000	rs1	000	frd	1010011
	01 01 01 01	01 00011 01 00000 01 00010 01 00011	01 00011 frs1 01 00000 frs1 01 00010 rs1 01 00011 rs1	01 00011 frs1 rm 01 00000 frs1 000 01 00010 rs1 rm 01 00011 rs1 rm	01 00011 frs1 rm rd 01 00000 frs1 000 rd 01 00010 rs1 rm frd 01 00011 rs1 rm frd

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	op	Type-CSS	

RV32C Standard Extension for Compressed Instructions

	100 520 5		xtension for Cor.	npressed in			7	
000			[5:4 9:6 2 3]		rd'	00	C.ADDI4SPN rd, rs1, imm	
001		1[5:3]	rs1'	imm[7:6]	frd'	00	C.FLD frd, offset(rs1)	
010		1[5:3]	rs1'	imm[2 6]	rd'	00	C.LW rd, offset(rs1)	
011		n[5:3]	rs1'	imm[2 6]	frd'	00	C.FLW frd, offset(rs1)	
101		n[5:3]	rs1'	imm[7:6]	frs2'	00	C.FSD frs2, offset(rs1)	
110		n[5:3]	rs1'	imm[2 6]	rs2'	00	C.SW rs2, offset(rs1)	
111	imn	n[5:3]	rs1'	imm[2 6]	frs2'	00	C.FSW frs2, offset(rs1)	
000	0		00000		00000	01	C.NOP	
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, offset	
010	imm[5]		rs1/rd		mm[4:0]	01	C.LI rd, rs1, imm	
011	imm[17]		rd	im	m[16:12]	01	C.LUI rd, imm	
011	imm[9]		rs1/rd		n[4 6 8:7 5]	01	C.ADDI16SP rd, rs1, imm	
100	-	00	rs1'/rd'	iı	mm[4:0]	01	C.SRLI rd, rs1, imm	
100		01	rs1'/rd'		mm[4:0]	01	C.SRAI rd, rs1, imm	
100	imm[5]	10	rs1'/rd'	iı	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	1	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, offset		
110		[8 4:3]	rs1'	n[7:6 2:1 5]	01	C.BEQZ rs1, rs2, offset		
111	imm	[8 4:3]	rs1'		n[7:6 2:1 5]	01	C.BNEZ rs1, rs2, offset	
000	0		rs1/rd	iı	imm[4:0]		C.SLLI rd, rs1, imm	
001	imm[5]		frd	imm[4:3 8:6]		10	C.FLDSP frd, offset(rs1)	
010	imm[5]		rd	imi	m[4:2 7:6]	10	C.LWSP rd, offset(rs1)	
011	imm[5]		frd	imi	m[4:2 7:6]	10	C.FLWSP frd, offset(rs1)	
100	rd,		rs1		00000	10	C.JR rd, rs1, offset	
1000			rd		rs2	10	C.MV rd, rs1, rs2	
100	1		00000		00000	10	C.EBREAK	
100	rd,		rs1		00000	10	C.JALR rd, rs1, offset	
1001			rs1/rd		rs2	10	C.ADD rd, rs1, rs2	
101		imm[5:3	[8:6]		frs2	10	C.FSDSP frs2, offset(rs1)	
110		imm[5:2			rs2	10	C.SWSP rs2, offset(rs1)	
111		imm[5:2	[7:6]		frs2	10	C.FSWSP frs2, offset(rs1)	

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

011	imm[5:3]		rs1'	imm[7:6]	rd'	00	
111	imm[5:3]		rs1'	imm[7:6] rs2'		00	٦
001	imm[5]		rs1/rd	ir	imm[4:0]		
100	imm[5]	00	rs1'/rd'	ir	nm[4:0]	01	
100	imm[5]	01	rs1'/rd'	ir	nm[4:0]	01	7
000	imm[5]		rs1/rd	ir	nm[4:0]	10	٦
011	imm[5]		rd	imm[4:3 8:6]		10	
111		imm[5:3	[8:6]		rs2	10	

C.LD rd, offset(rs1)
C.SD rs2, offset(rs1)
C.ADDIW rd, rs1, imm
C.SRLI rd, rs1, imm
C.SRAI rd, rs1, imm
C.SLLI rd, rs1, imm
C.LDSP rd, offset(rs1)
C.SDSP rs2, offset(rs1)