

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents
13	12	0	0	14	100	0	13	12	0	0	14	100	0

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	0	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	0	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	0	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	0	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	0	hold contents	1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	0	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	0	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	0	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	0	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents
13	12	0	0	14	0	0	13	12	0	0	14	100	0

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents
13	12	0	0	14	100	0	13	12	0	0	14	100	0

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents
13	12	0	0	14	100	0	13	12	0	0	14	100	0

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents
13	12	0	0	14	100	0	13	12	0	0	14	100	0

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

nCLR	sr_in	sl_in	s	x	Q	comment	nCLR	sr_in	sl_in	s	x	Q	comment		
0	0	0	HOLD	0	0	parallel data changed	0	0	0	HOLD	0	0	parallel data changed		
0	0	0	HOLD	1	0	clear deactivated	0	0	0	HOLD	1	0	clear deactivated		
1	0	0	HOLD	1	0	serial shift data changed	1	0	0	HOLD	1	0	serial shift data changed		
1	1	0	HOLD	1	1	hold contents	1	1	0	HOLD	1	1	hold contents		
1	1	0	HOLD	1	1	serial SHR sl_in => MSB	1	1	0	HOLD	1	1	serial SHR sl_in => MSB		
1	1	0	SHL	1	8	serial SHR sl_in => MSB	1	1	0	SHL	1	8	serial SHR sl_in => MSB		
1	1	0	SHL	1	12	serial SHR sl_in => MSB	1	1	0	SHL	1	12	serial SHR sl_in => MSB		
1	1	0	SHL	1	14	serial SHR sl_in => MSB	1	1	0	SHL	1	14	serial SHR sl_in => MSB		
1	1	0	SHL	1	15	hold contents	1	1	0	SHL	1	15	hold contents		
1	1	0	HOLD	1	15	serial SHL sr_in => LSB	1	1	0	HOLD	1	15	serial SHL sr_in => LSB		
1	1	0	SHR	1	14	serial SHL sr_in => LSB	1	1	0	SHR	1	14	serial SHL sr_in => LSB		
1	1	0	SHR	1	12	serial SHL sr_in => LSB	1	1	0	SHR	1	12	serial SHL sr_in => LSB		
1	1	0	SHR	1	8	serial SHL sr_in => LSB	1	1	0	SHR	1	8	serial SHL sr_in => LSB		
1	1	0	SHR	1	0	hold contents	1	1	0	SHR	1	0	hold contents		
1	1	0	HOLD	1	0	hold contents	1	1	0	HOLD	1	0	hold contents		
13	12	0	0	14	100	0	13	12	0	0	14	100	0		

IDEAL

nCLR	sr_in	sl_in	s	x	Q	comment
0	0	0	HOLD	0	0	parallel data changed
0	0	0	HOLD	1	0	clear deactivated
1	0	0	HOLD	1	0	serial shift data changed
1	1	0	HOLD	1	1	hold contents
1	1	0	HOLD	1	1	serial SHR sl_in => MSB
1	1	0	SHL	1	8	serial SHR sl_in => MSB
1	1	0	SHL	1	12	serial SHR sl_in => MSB
1	1	0	SHL	1	14	serial SHR sl_in => MSB
1	1	0	SHL	1	15	hold contents
1	1	0	HOLD	1	15	serial SHL sr_in => LSB
1	1	0	SHR	1	14	serial SHL sr_in => LSB
1	1	0	SHR	1	12	serial SHL sr_in => LSB
1	1	0	SHR	1	8	serial SHL sr_in => LSB
1	1	0	SHR	1	0	hold contents
12	11	0	0	13	100	0