

74163 State Table

Inputs					Current State					Next State			
/CLR	/LD	ENT	ENP		QD	QC	QB	QA		QD*	QC*	QB*	QA*
0	X	X	X	Clear	X	X	X	X		0	0	0	0
1	0	X	X	Load	X	X	X	X		D	C	B	A
1	1	0	X	Hold	X	X	X	X		QD	QC	QB	QA
1	1	1	0	Hold	X	X	X	X		QD	QC	QB	QA
1	1	1	1	Count	0	0	0	0		0	0	0	1
1	1	1	1	.	0	0	0	1		0	0	1	0
1	1	1	1	.	0	0	1	0		0	0	1	1
1	1	1	1	.	0	0	1	1		0	1	0	0
1	1	1	1	.	0	1	0	0		0	1	0	1
1	1	1	1	.	0	1	0	1		0	1	1	0
1	1	1	1	.	0	1	1	0		0	1	1	1
1	1	1	1	.	0	1	1	1		1	0	0	0
1	1	1	1	.	1	0	0	0		1	0	0	1
1	1	1	1	.	1	0	0	1		1	0	1	0
1	1	1	1	.	1	0	1	0		1	0	1	1
1	1	1	1	.	1	0	1	1		1	1	0	0
1	1	1	1	.	1	1	0	0		1	1	0	1
1	1	1	1	.	1	1	0	1		1	1	1	0
1	1	1	1	.	1	1	1	0		1	1	1	1
1	1	1	1	.	1	1	1	1		0	0	0	0