

U1  
8x8-Step-Table  
DECIMAL=0

	S0	S1	S2	S3	S4	S5	S6	S7
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0
VH=5 VL=0	S0	S1	S2	S3	S4	S5	S6	S7

\*\*\*\*\*

\*\*\* 8x8 Step Table \*\*\*

.SUBCKT 8x8-Step-Table N0 N1 N2 N3 N4 N5 N6 N7 PARAMS: VH=5 VL=0

+ S0x0=0 S1x0=0 S2x0=0 S3x0=0 S4x0=0 S5x0=0 S6x0=0 S7x0=0

+ S0x1=0 S1x1=0 S2x1=0 S3x1=0 S4x1=0 S5x1=0 S6x1=0 S7x1=0

+ S0x2=0 S1x2=0 S2x2=0 S3x2=0 S4x2=0 S5x2=0 S6x2=0 S7x2=0

+ S0x3=0 S1x3=0 S2x3=0 S3x3=0 S4x3=0 S5x3=0 S6x3=0 S7x3=0

+ S0x4=0 S1x4=0 S2x4=0 S3x4=0 S4x4=0 S5x4=0 S6x4=0 S7x4=0

+ S0x5=0 S1x5=0 S2x5=0 S3x5=0 S4x5=0 S5x5=0 S6x5=0 S7x5=0

+ S0x6=0 S1x6=0 S2x6=0 S3x6=0 S4x6=0 S5x6=0 S6x6=0 S7x6=0

+ S0x7=0 S1x7=0 S2x7=0 S3x7=0 S4x7=0 S5x7=0 S6x7=0 S7x7=0

+ M0 = {IF(DECIMAL==0,1,0)}

+ M1 = {IF(DECIMAL==1,1,0)}

+ M2 = {IF(DECIMAL==2,1,0)}

+ M3 = {IF(DECIMAL==3,1,0)}

+ M4 = {IF(DECIMAL==4,1,0)}

+ M5 = {IF(DECIMAL==5,1,0)}

+ M6 = {IF(DECIMAL==6,1,0)}

+ M7 = {IF(DECIMAL==7,1,0)}

EN0 N0 0 VALUE = {(M0\*S0x0+M1\*S0x1+M2\*S0x2+M3\*S0x3+M4\*S0x4+M5\*S0x5+M6\*S0x6+M7\*S0x7)\*(VH-VL)+VL}

EN1 N1 0 VALUE = {(M0\*S1x0+M1\*S1x1+M2\*S1x2+M3\*S1x3+M4\*S1x4+M5\*S1x5+M6\*S1x6+M7\*S1x7)\*(VH-VL)+VL}

EN2 N2 0 VALUE = {(M0\*S2x0+M1\*S2x1+M2\*S2x2+M3\*S2x3+M4\*S2x4+M5\*S2x5+M6\*S2x6+M7\*S2x7)\*(VH-VL)+VL}

EN3 N3 0 VALUE = {(M0\*S3x0+M1\*S3x1+M2\*S3x2+M3\*S3x3+M4\*S3x4+M5\*S3x5+M6\*S3x6+M7\*S3x7)\*(VH-VL)+VL}

EN4 N4 0 VALUE = {(M0\*S4x0+M1\*S4x1+M2\*S4x2+M3\*S4x3+M4\*S4x4+M5\*S4x5+M6\*S4x6+M7\*S4x7)\*(VH-VL)+VL}

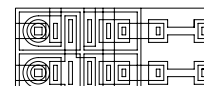
EN5 N5 0 VALUE = {(M0\*S5x0+M1\*S5x1+M2\*S5x2+M3\*S5x3+M4\*S5x4+M5\*S5x5+M6\*S5x6+M7\*S5x7)\*(VH-VL)+VL}

EN6 N6 0 VALUE = {(M0\*S6x0+M1\*S6x1+M2\*S6x2+M3\*S6x3+M4\*S6x4+M5\*S6x5+M6\*S6x6+M7\*S6x7)\*(VH-VL)+VL}

EN7 N7 0 VALUE = {(M0\*S7x0+M1\*S7x1+M2\*S7x2+M3\*S7x3+M4\*S7x4+M5\*S7x5+M6\*S7x6+M7\*S7x7)\*(VH-VL)+VL}

.ENDS 8x8-Step-Table

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ANALOG INNOVATIONS  
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Title:

Step Table with Adjustable Logic Output levels

Size  
A

FileName:  
...\BehavioralComponents\LogicStepTable\LogicStepTable.sch

REV  
A

April 24, 2007, 10:27 AM

Sheet 1 of 1