Gökem köse 25354

X1	X0	Y1	Y0	EQ	LT	GT
0	0	0	0	1	0	0
0	0	0	1	0	1	0
0	0	1	0	0	1	0
0	0	1	1	0	1	0
0	1	0	0	0	0	1
0	1	0	1	1	0	0
0	1	1	0	0	1	0
0	1	1	1	0	1	0
1	0	0	0	0	0	1
1	0	0	1	0	0	1
1	0	1	0	1	0	0
1	0	1	1	0	1	0
1	1	0	0	0	0	1
1	1	0	1	0	0	1
1	1	1	0	0	0	1
1	1	1	1	1	0	0

EQ

$EQ = x_0'x_1'y_1'y_0' + x_1x_0y_1y_0$

$+ x_1x_0y_1y_0 + x_1x_0'y_1y_0'$

$= x_1'y_1'(x_0'y_0' + x_0y_0)$

$+ x_1y_1(x_0y_0 + x_0'y_0')$

$= x_1'y_1'(x_0 \oplus y_0)'$

$+ x_1y_1(x_0 \oplus y_0)'$

$= (x_0 \oplus y_0)'(x_1 \oplus y_1)'$

LT

$LT = x_1'y_1 + x_1'x_0'y_0$

$+ x_0'y_1y_0$

$= x_0'y_0(x_1' + y_1)$

$+ x_1'y_1$

GT

$GT = x_1y_1' + x_0y_1'y_0'$

$+ y_0'x_1x_0$

$= y_0'x_0(x_1 + y_1')$

$+ x_1y_1'$

Name	Value
X1	1
X0	1
Y1	1
Y0	1
EQ	1
LT	0
GT	0

604.250 ns