

B0

$g_3, g_2 \backslash g_1, g_0$	00	01	11	10
00	0	1	0	1
01	1	0	1	0
11	0	1	0	1
10	1	0	1	0

$$B_0 = g_3' * g_2' * g_1' * g_0 + g_3' * g_2' * g_1' * g_0' + g_3' * g_2 * g_1' * g_0 + g_3' * g_2 * g_1' * g_0' + g_3 * g_2' * g_1' * g_0 + g_3 * g_2' * g_1' * g_0' + g_3 * g_2 * g_1' * g_0 + g_3 * g_2 * g_1' * g_0'$$

$$CPOS B_0 = (g_3 + g_2 + g_1' + g_0') * (g_3 + g_2 + g_1' + g_3) * (g_3 + g_2' + g_1' + g_0') * (g_3 + g_2' + g_1 + g_0) * (g_3' + g_2' + g_1 + g_0') * (g_3' + g_2' + g_1' + g_0) * (g_3' + g_2 + g_1' + g_0') * (g_3' + g_2 + g_1 + g_0)$$

B1

$g_3, g_2 \backslash g_1, g_0$	00	01	11	10
00	0	0	1	1
01	1	1	0	0
11	0	0	1	1
10	1	1	0	0

$$B_1 = (g_3') * g_2 * (g_1') + (g_3') * (g_2') * g_1 + g_3 * g_2 * g_1 + g_3 * (g_2') * (g_1')$$

$$CPOS B_1 = (g_3 + g_2' + g_1) * (g_3 + g_2 + g_1') * (g_3' + g_2' + g_1') * (g_3' + g_2 + g_1)$$

B2

$g_3, g_2 \backslash g_1, g_0$	00	01	11	10
00	0	0	0	0
01	1	1	1	1
11	0	0	0	0
10	1	1	1	1

$$(CSOP - minterms) B_2 = g_3 * (g_2') + (g_3') * g_2$$

$$CPOS B_2 = (g_3' + g_2)(g_3 + g_2')$$

$$B_3 = G_3$$