

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

0000000011111111 : D_1

0010010010101111 : D_2

0010010001010000 : D_1 xor D_2

0000000001010000 : $(D_1$ xor $D_2)$ and D_1

0010010000000000 : $(D_1$ xor $D_2)$ and D_2