

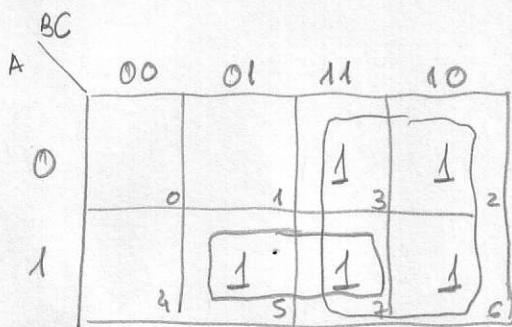
Ejercicio 2012-9 E. Digital select.

m <sub>i</sub>	A	B	C	L <sub>1</sub>	L <sub>2</sub>
0	0	0	0	0	0
1	0	0	1	0	0
2	0	1	0	1	0
3	0	1	1	1	1
4	1	0	0	0	1
5	1	0	1	1	1
6	1	1	0	1	1
7	1	1	1	1	1

$$L_1 = f(A,B,C) = \sum_3 (2,3,5,6,7) = \bar{A}\bar{B}C + \bar{A}BC + A\bar{B}C + ABC + ABC$$

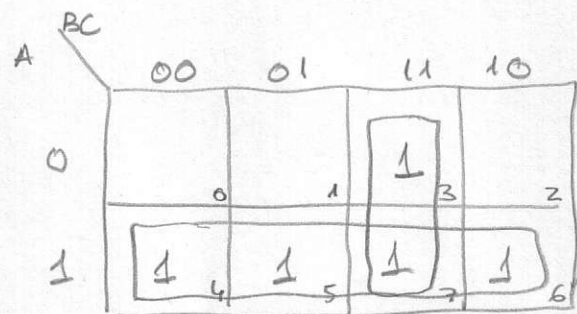
$$L_2 = f(A,B,C) = \sum_3 (3,4,5,6,7) = \bar{A}BC + A\bar{B}\bar{C} + A\bar{B}C + ABC + ABC$$

A continuación, simplificamos por karnaugh.



Agrupaciones:

$$\begin{aligned} (5-7) &= AC \\ (3-2-7-6) &= B \end{aligned} \Rightarrow L_1 = AC + B$$



Agrupaciones:

$$\begin{aligned} (3-7) &= BC \\ (4-5-7-6) &= A \end{aligned} \Rightarrow L_2 = BC + A$$

Implementando las funciones con puertas básicas de 2 entradas:

