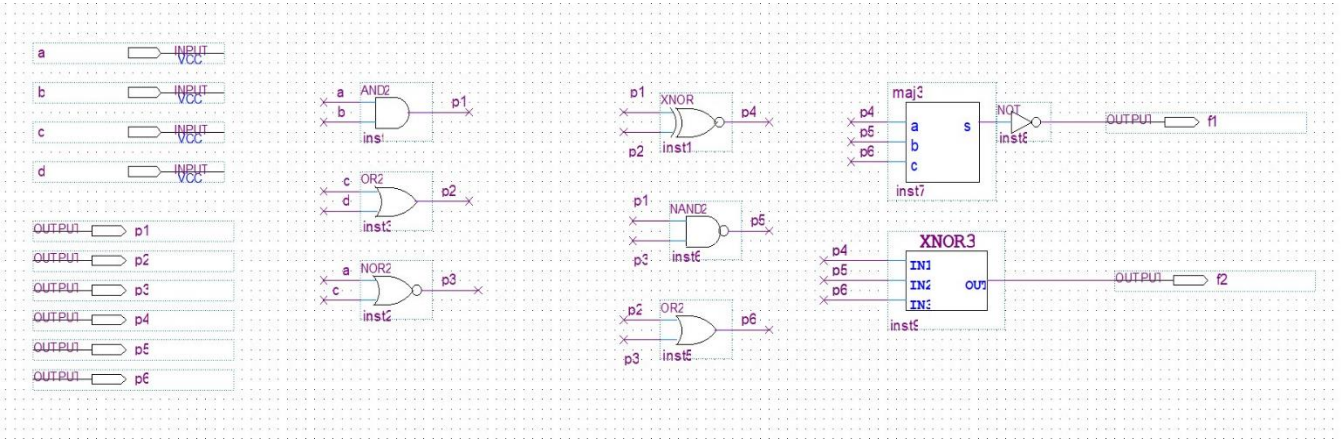


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Cartão UFRGS: 00342337

Circuito:



1. Tabela Verdade:

a	b	c	d	f1	f2
0	0	0	0	0	0
0	0	0	1	0	1
0	0	1	0	0	1
0	0	1	1	0	1
0	1	0	0	0	0
0	1	0	1	0	1
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	1
1	0	0	1	0	1
1	0	1	0	0	1
1	0	1	1	0	1
1	1	0	0	1	0
1	1	0	1	0	0
1	1	1	0	0	0
1	1	1	1	0	0

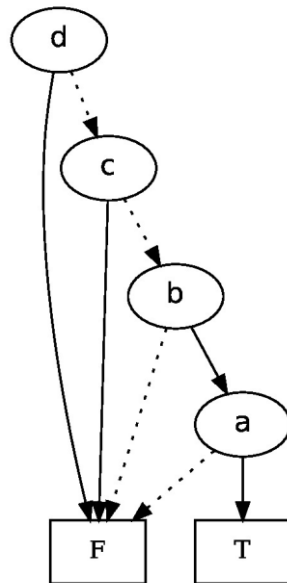
2. Número Inteiro:

$f1(a, b, c, d) = 0001\ 0000\ 0000\ 0000_{\text{bin}} = 1000_{\text{hex}}$

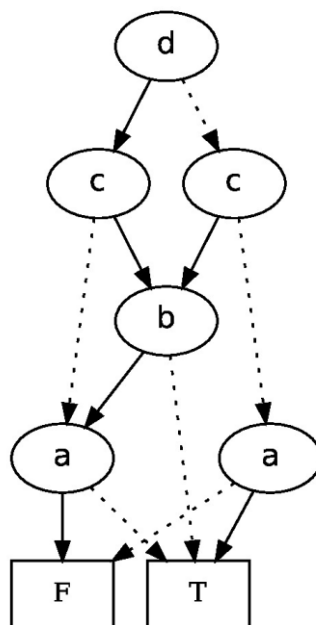
$f2(a, b, c, d) = 0000\ 1111\ 1110\ 1110_{\text{bin}} = 0FEE_{\text{hex}}$

3. ROBDD:

- $f1(a, b, c, d)$:



- $f2(a, b, c, d)$:



4. Diagrama de Veitch:

- $f_1(a, b, c, d)$:

	cd			
ab	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	1	0	0	0
10	0	0	0	0

- $f_2(a, b, c, d)$:

	cd			
ab	00	01	11	10
00	0	1	1	1
01	0	1	1	1
11	0	0	0	0
10	1	1	1	1