Prova continuada 2

de

Arquitetura computacional

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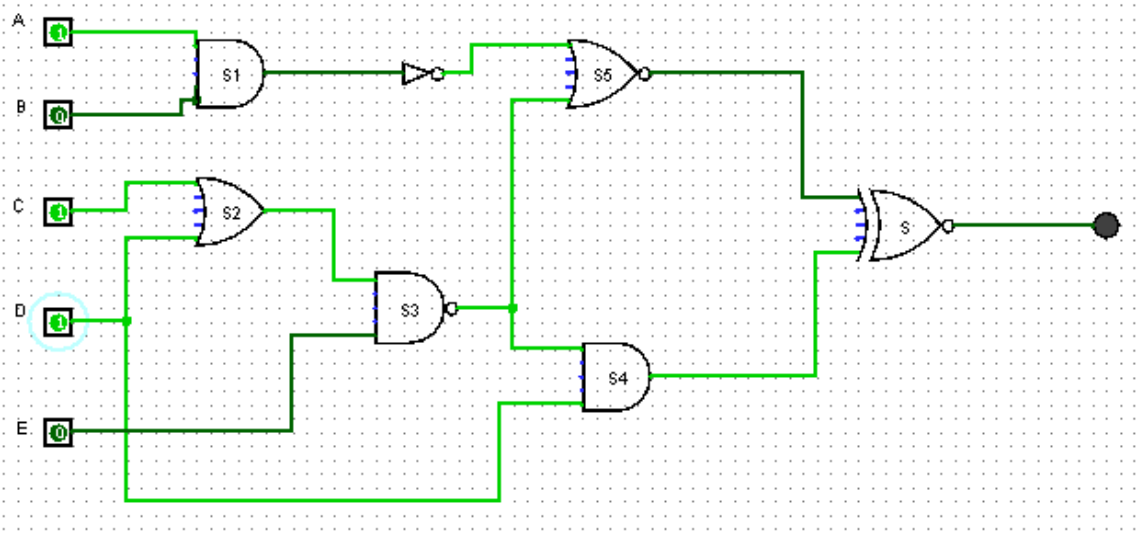
1 –



S1= !(A*b) s2=c+d s3= s2 !*e s4= s3*d s5= s1 !+ s3 s= s4+s5

S3= (c+d) !*e S4= ((c+d) !*e) * d S5 = (!(A*b)) !+ ((c+d) !*e)

ENTÃO **S** = (((c+d) !*e) * d) ⊕ ((!(A*b)) !+ ((c+d) !*e)

A	B	C	D	E	S1	S2	S3	S4	S5	S
0	0	0	0	0	0	0	1	0	0	0
0	0	0	0	1	0	0	1	0	0	0
0	0	0	1	0	0	1	1	1	0	1
0	0	0	1	1	0	1	0	0	1	1
0	0	1	0	0	0	1	1	0	0	0
0	0	1	0	1	0	1	0	0	1	1
0	0	1	1	0	0	1	1	1	0	1
0	0	1	1	1	0	1	0	0	1	1
0	1	0	0	0	0	0	1	0	0	0
0	1	0	0	1	0	0	1	0	0	0
0	1	0	1	0	0	1	1	1	0	1
0	1	0	1	1	0	1	0	0	1	1
0	1	1	0	0	0	1	1	0	0	0
0	1	1	0	1	0	1	0	0	1	1
0	1	1	1	0	0	1	1	1	0	1
0	1	1	1	1	0	1	1	1	0	1
1	0	0	0	0	0	0	1	0	0	0
1	0	0	0	1	0	0	1	0	0	0
1	0	0	1	0	0	1	1	1	0	1
1	0	0	1	1	0	1	0	0	1	1
1	0	1	0	0	0	1	1	0	0	0
1	0	1	0	1	0	1	0	0	1	1
1	0	1	1	0	0	1	1	1	0	1
1	0	1	1	1	0	1	0	0	1	1
1	1	0	0	0	1	0	1	0	0	0
1	1	0	0	1	1	0	1	0	0	0
1	1	0	1	0	1	1	1	1	0	1
1	1	0	1	1	1	1	0	0	0	0
1	1	1	0	0	1	1	1	0	0	0
1	1	1	0	1	1	1	0	0	0	0
1	1	1	1	0	1	1	1	1	0	1
1	1	1	1	1	1	1	0	0	0	0

2-

	Base 2	Base 8	Base 10	Base16
$1A_{16}$	11010	32	26	
28_{10}	11100	34		1C
777_{8}	111111111		511	1FF
1011011_{2}		133	91	5B

$1A_{16}$

BASE 2-

		8	4	2	1		8	4	2	1
		3	2	1	0		3	2	1	0
		2	2	2	2		2	2	2	2
binario	**00011010**	**0**	**0**	**0**	**1**		**1**	**0**	**1**	**0**
		0	**0**	**0**	**1**		**8**	**0**	**2**	**0**
				=					=	
Hexadecin	**=**			**1**					**A**	

BASE 8- 32

		4	2	1		4	2	1		4	2	1
		2	1	0		2	1	0		2	1	0
		2	2	2		2	2	2		2	2	2
binario =	11010		**0**	**0**		**0**	**1**	**1**		**0**	**1**	**0**
			0	0		0	2	1		0	2	0
			=				=				=	
Octal =	32		**0**				**3**				**2**	

BASE 10- 26

128	64	32	16	8	4	2	1	
7	6	5	4	3	2	1	0	
2	2	2	2	2	2	2	2	
0	0	0	1	1	0	1	0	BINARIO = 0011010
0	0	0	16	8	0	2	0	DECIMAL = 26

28_{10}

BASE 2-

16	8	4	2	1	
4	3	2	1	0	
2	2	2	2	2	
1	1	1	0	0	BINARIO = 11100
16	8	4	0	0	DECIMAL = 28

BASE 8-

		4	2	1		4	2	1		
		2	1	0		2	1	0		
		2	2	2		2	2	2		
binario =	11100	0	1	1		1	0	0		
		0	2	1		4	0	0		
			=				=			
Octal =	34	3				4				

BASE 16-

		8	4	2	1	8	4	2	1	
		3	2	1	0	3	2	1	0	
		2	2	2	2	2	2	2	2	
binario	11100	0	0	0	1	1	1	0	0	
		0	0	0	1	8	4	0	0	
			=				=			
Hexadecin	= 1C	1				C				

777_8

BASE 2-

		4	2	1	4	2	1	4	2	1
		2	1	0	2	1	0	2	1	0
		2	2	2	2	2	2	2	2	2
binario =	111111111	1	1	1	1	1	1	1	1	1
		4	2	1	4	2	1	4	2	1
			=			=			=	
Octal =	777	7			7			7		

BASE 10-

512	256	128	64	32	16	8	4	2	1	
9	8	7	6	5	4	3	2	1	0	
2	2	2	2	2	2	2	2	2	2	
0	1	1	1	1	1	1	1	1	1	BINARIO = 111111111
0	256	128	64	32	16	8	4	2	1	DECIMAL = 551

BASE 16-

		8	4	2	1	8	4	2	1	8	4	2	1	
		3	2	1	0	3	2	1	0	3	2	1	0	
		2	2	2	2	2	2	2	2	2	2	2	2	
binario	111 111 111	0	0	0	1	1	1	1	1	1	1	1	1	
		0	0	0	1	8	4	2	1	8	4	2	1	
			=				=				=			
Hexadecin	= 1FF	1				F				F				

1011011_2

BASE 8

		4	2	1		4	2	1		4	2	1
		2	1	0		2	1	0		2	1	0
		2	2	2		2	2	2		2	2	2
binario =	1011011	**0**	**0**	**1**		**0**	**1**	**1**		**0**	**1**	**1**
		0	0	1		0	2	1		0	2	1
			=				=				=	
Octal =	**133**		**1**				**3**				**3**	

BASE 10-

64	32	16	8	4	2	1	
6	5	4	3	2	1	0	
2	2	2	2	2	2	2	
1	0	1	1	0	1	1	BINARIO = 1011011
64	0	16	8	0	2	1	DECIMAL = 91

BASE 16-

		8	4	2	1		8	4	2	1		8	4	2	1
		3	2	1	0		3	2	1	0		3	2	1	0
		2	2	2	2		2	2	2	2		2	2	2	2
binario	**1011011**	**0**	**1**	**0**	**1**		**1**	**0**	**1**	**1**		**1**	**1**	**1**	**1**
		0	**4**	**0**	**1**		**8**	**0**	**2**	**1**		**8**	**4**	**2**	**1**
			=					=					=		
Hexadecim	**= 5B**		**5**					**B**					**F**		