Cod. Disc: CMP1090 TURMA: _____ GRUPO:_____

NOME:_____matricula:

ESCOLA DE CIÊNCIAS EXATAS E DA COMPUTAÇÃO

ENGENHARIA DE COMPUTAÇÃO

CIÊNCIA DA COMPUTAÇÃO

Laboratório Sistemas Digitais

ANEXO

LAYOUT DOS CIs das PORTAS LOGICAS BÁSICAS E OUTROS CIs DISPONÍVEIS

ESTE ANEXO SERÁ usado em TODAS AS AULAS DE PRATICAS NO LABORATÓRIO

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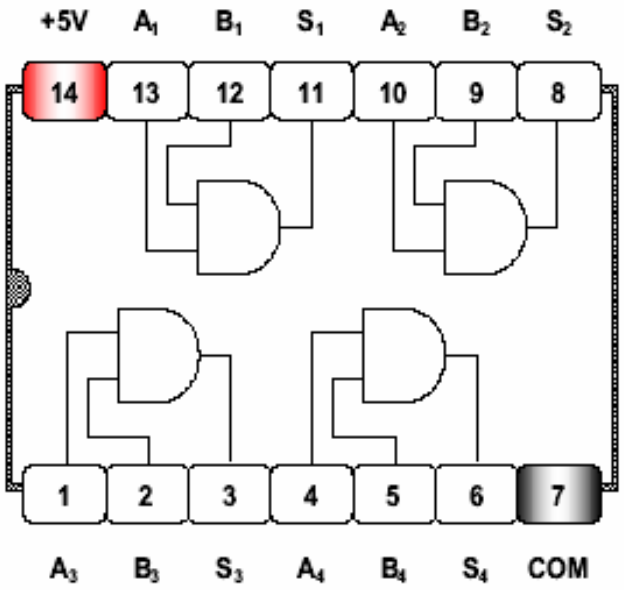
PROF. MSc. CARLOS ALEXANDRE FERREIRA DE LIMA

LAYOUT DOS CIs das PORTAS LOGICAS BÁSICAS

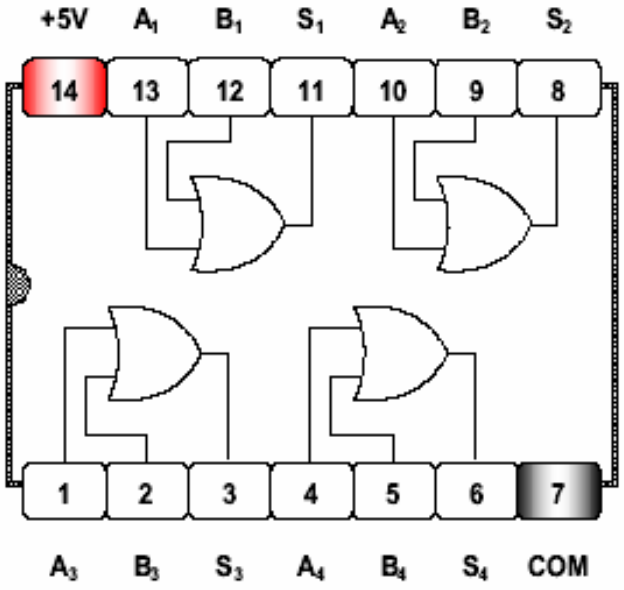
CI 74*08 (*Quad 2-Input AND Gates* = Quatro Portas E de 2 Entradas)



S = AB

A	B	S
0	0	0
0	1	0
1	0	0
1	1	1

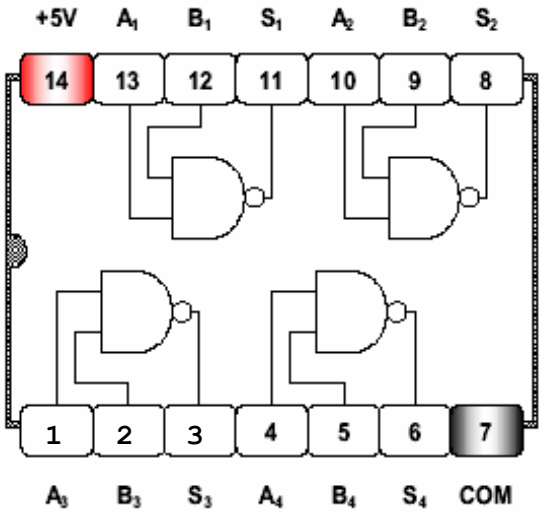
CI 74*32 (*Quad 2-Input OR Gates* = Quatro Portas OU de 2 Entradas)



S = A + B

A	B	S
0	0	0
0	1	1
1	0	1
1	1	1

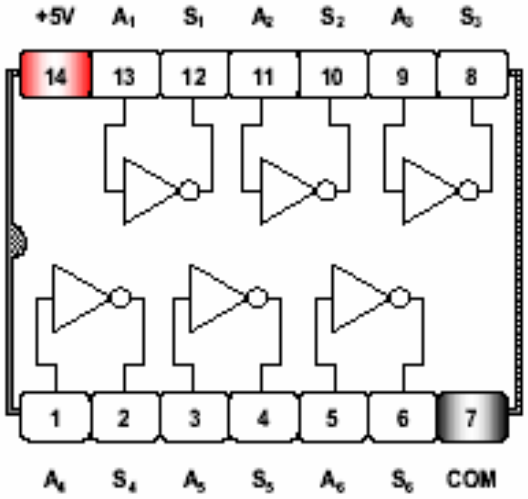
CI 74*00 (*Quad 2-Input NAND Gates* = Quatro Portas NE de 2 Entradas)



$S = \overline{AB}$

A	B	S
0	0	1
0	1	1
1	0	1
1	1	0

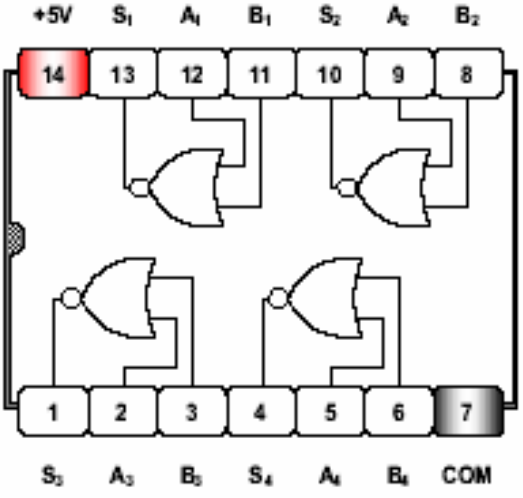
CI 74*04 (*Hex Inverting Gates* = 6 Inversores)



$S = \overline{A}$

A	S
0	1
1	0

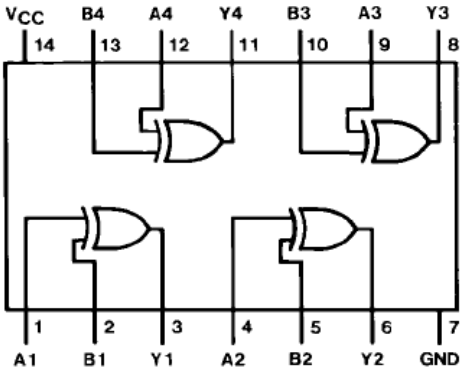
CI 74*02 (*Quad 2-Input NOR Gates* = Quatro Portas NOU de 2 Entradas)



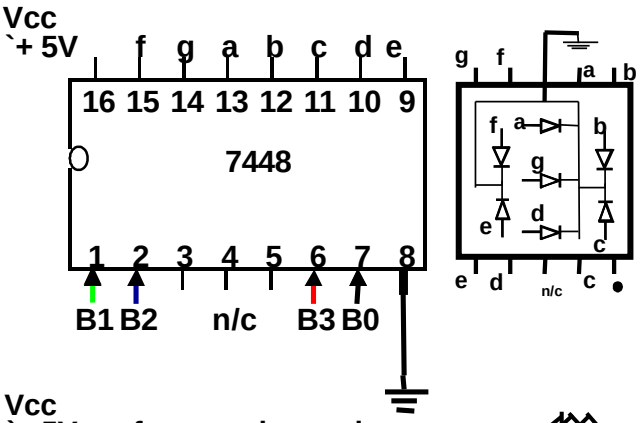
$S = \overline{A + B}$

A	B	S
0	0	1
0	1	0
1	0	0
1	1	0

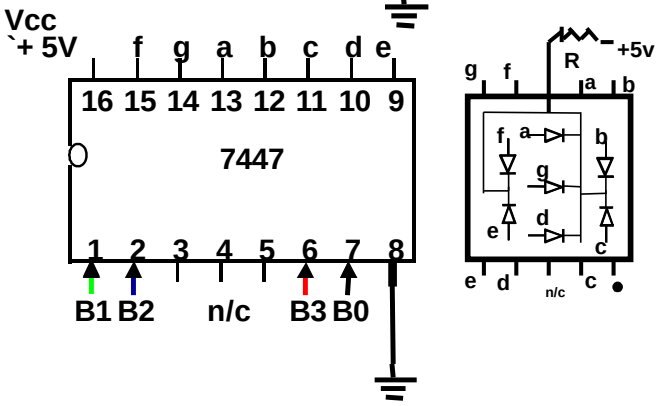
Outros circuitos integrados disponíveis:



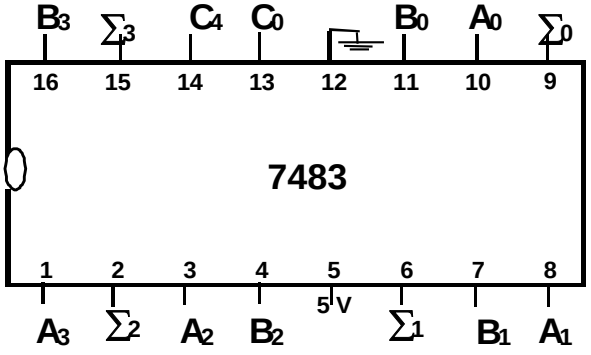
7486 : Quatro portas lógicas EX-OR



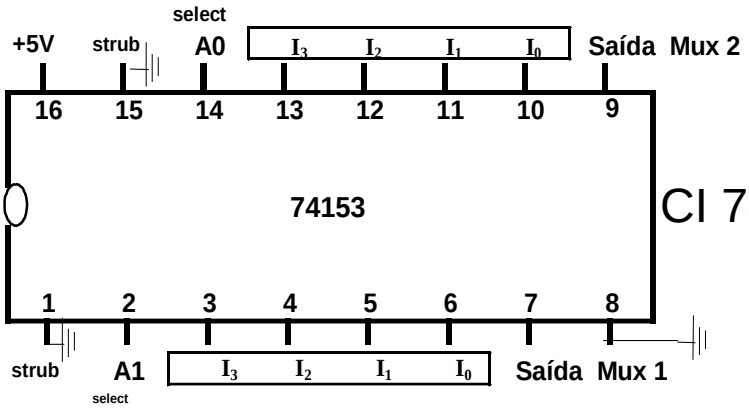
7448 Decodificador BCD
Display catodo comum



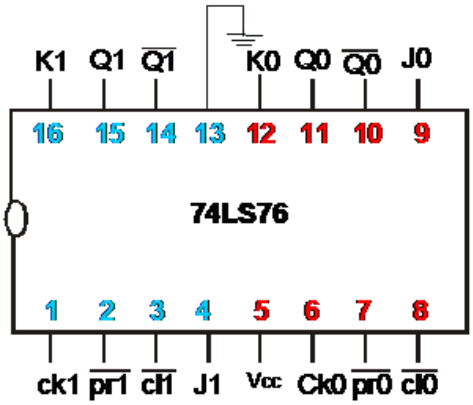
7447 Decodificador BCD
Display anodo comum



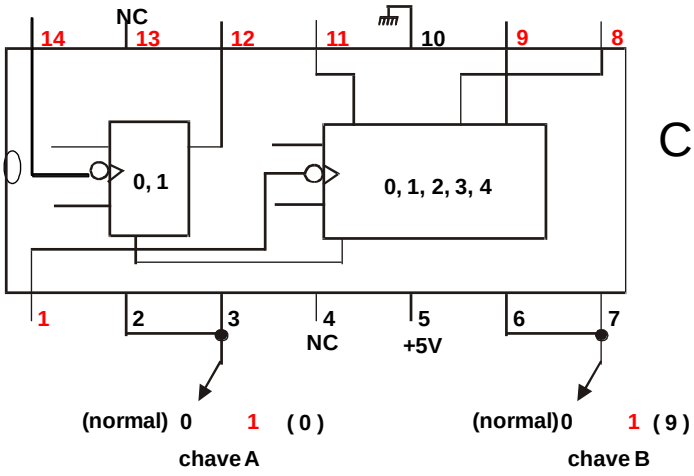
CI 7483 Somador Binário
Paralelo de 4 bits



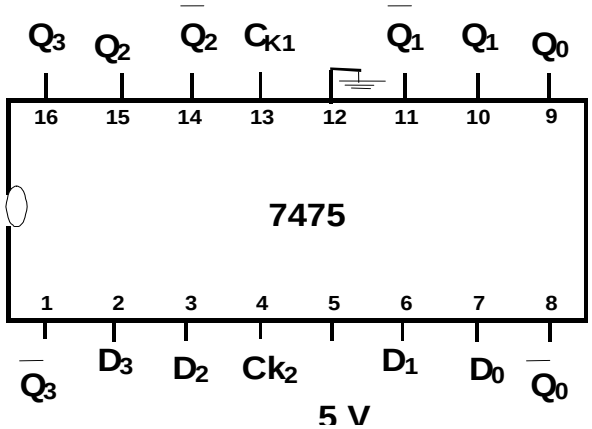
CI 74153: 2 x multiplex digital 4X1



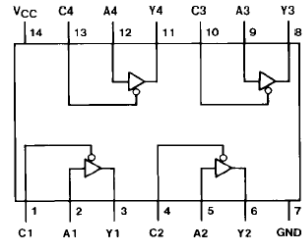
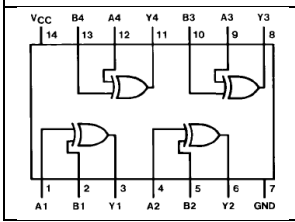
CI 7476: 2 x flip-flop JK

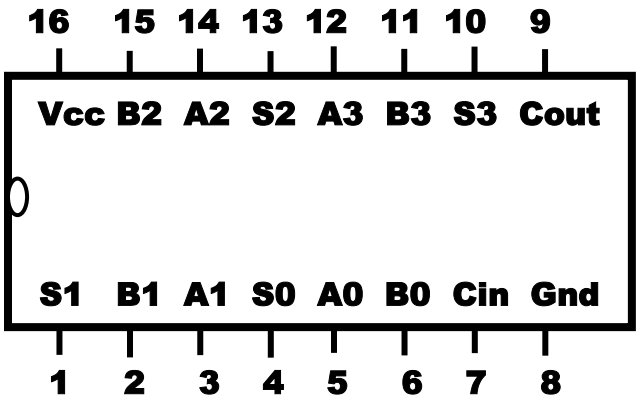


CI 7490: Contador BCD



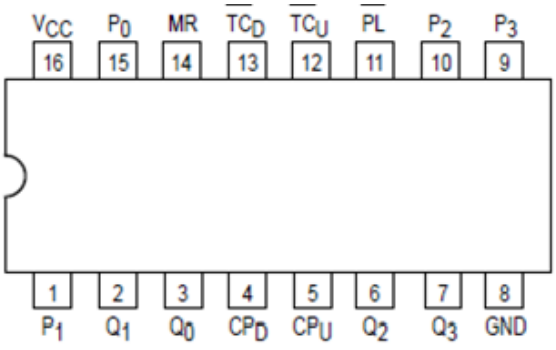
CI 7475: 2xflip-flop tipo D

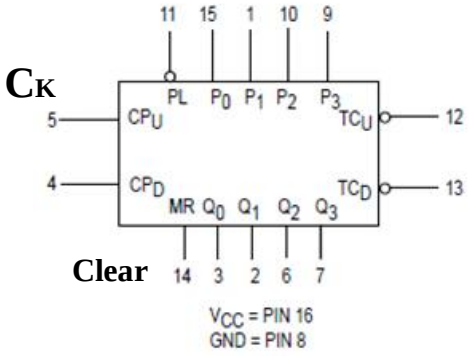
Circuito Integrado	Descrição
	74 125 : Quatro buffers three state
	74 86 : Quatro portas lógicas EX-OR



CI 74283 Somador Binário Paralelo de 4 bits

CI 74192 (LAYOUT ABAIXO)
Contador de década





SIMBOLO LOGICO: CI 74192