

Sistemas de Computação

Quarta Aula

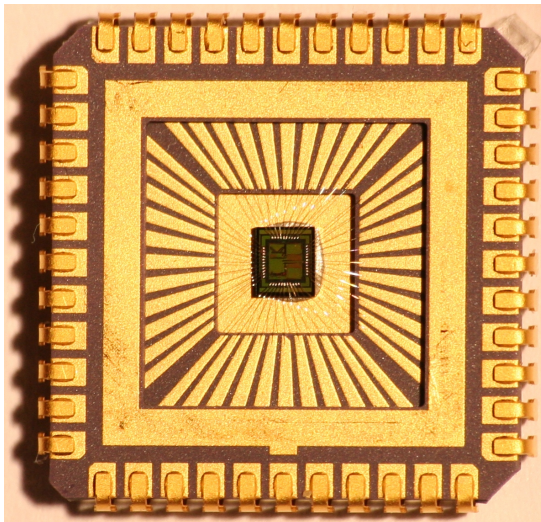
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2 de setembro de 2009

- 1 Circuitos Lógicos Digitais
 - Circuitos Combinacionais

Circuitos integrados - ICs ou chips



chips

Divisões

SSI Small Scale Integrated: 1 a 10 portas

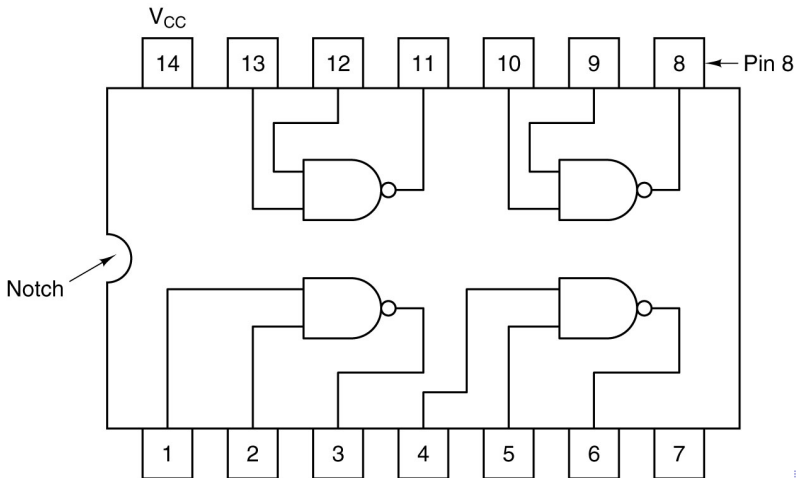
MSI Medium Scale Integrated: 10 a 100 portas

LSI Large Scale Integrated: 100 a 100.000 portas

VLSI Very Large Scale Integrated: > 100.000 portas

Ex.: chip SSI

Multiplexers

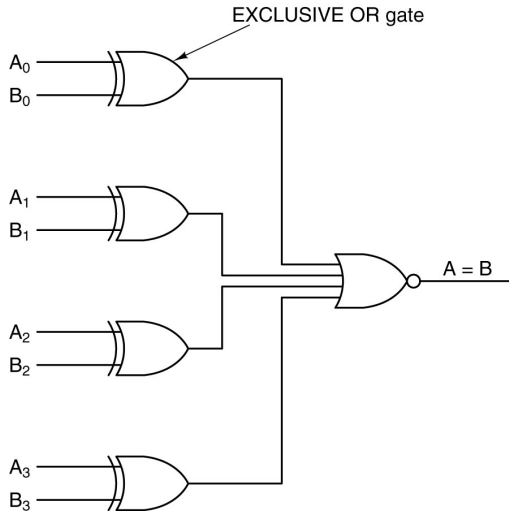


- 1 Circuitos Lógicos Digitais
 - Circuitos Combinacionais

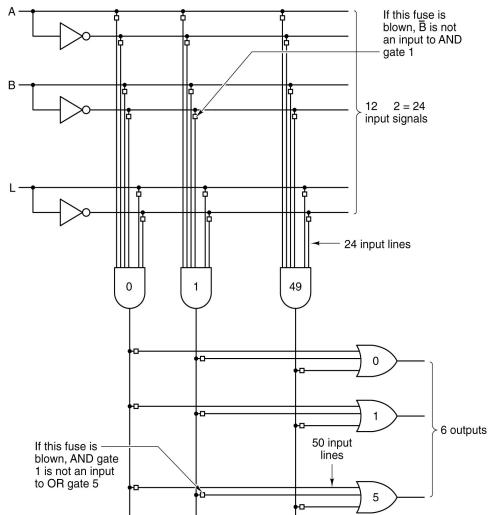
Circuitos Combinacionais

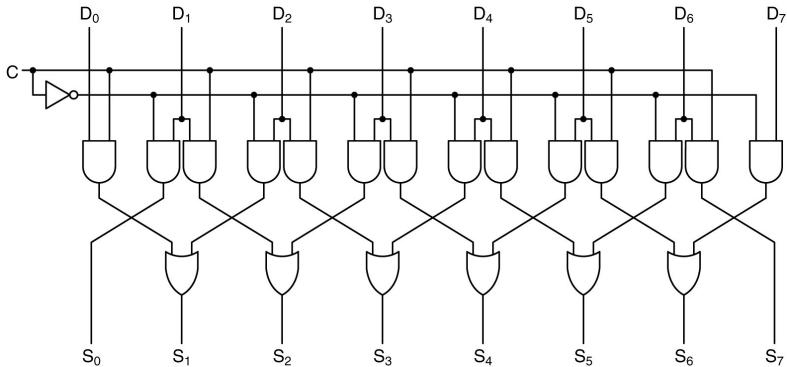
Saídas determinadas
exclusivamente
pelas entradas

Comparadores



Programmable Logic Arrays - PLAs

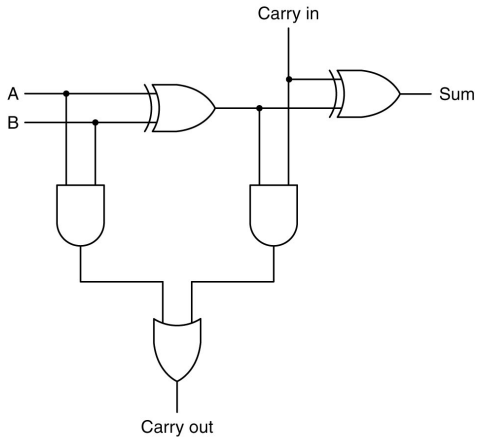




Somadores

A	B	Carry in	Sum	Carry out
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

(a)



(b)