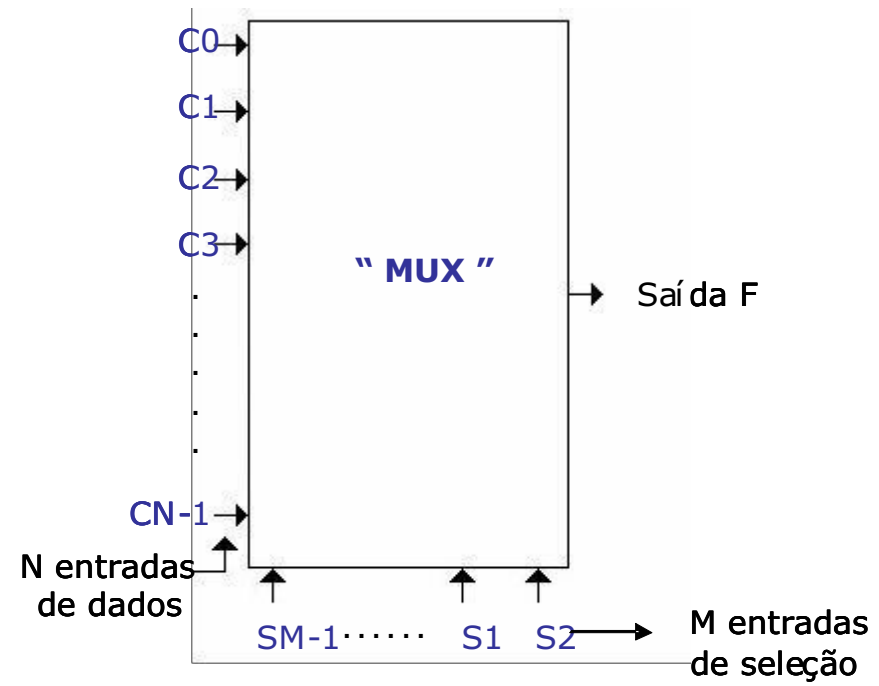
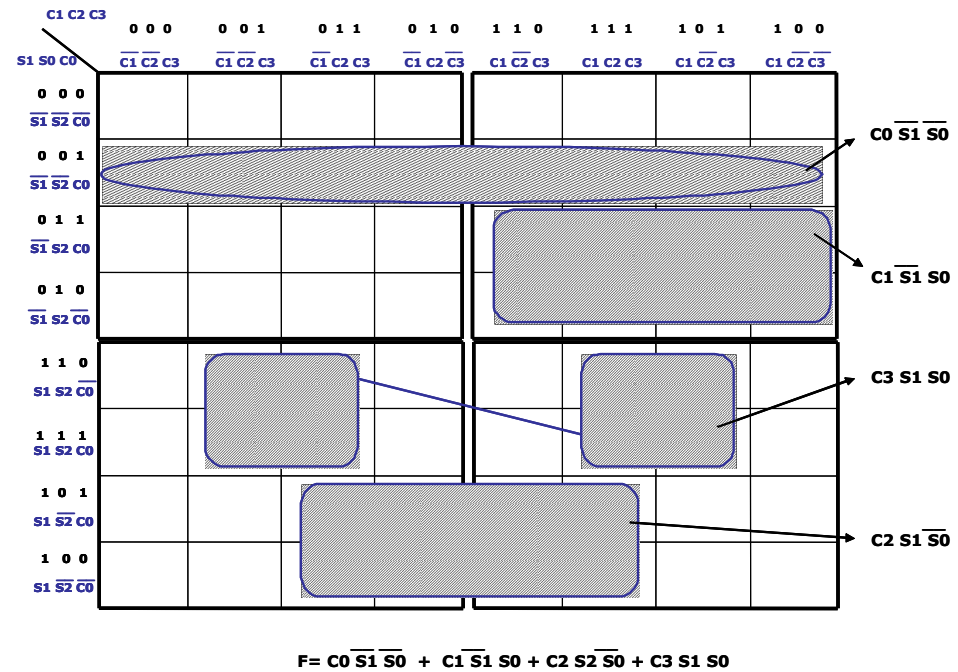
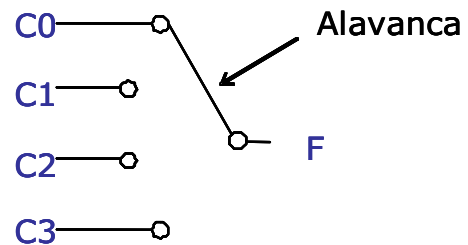
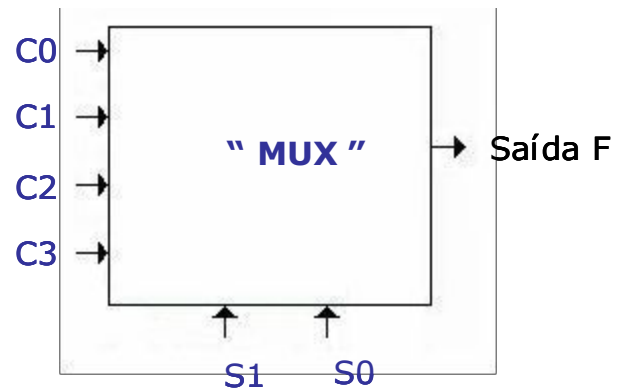


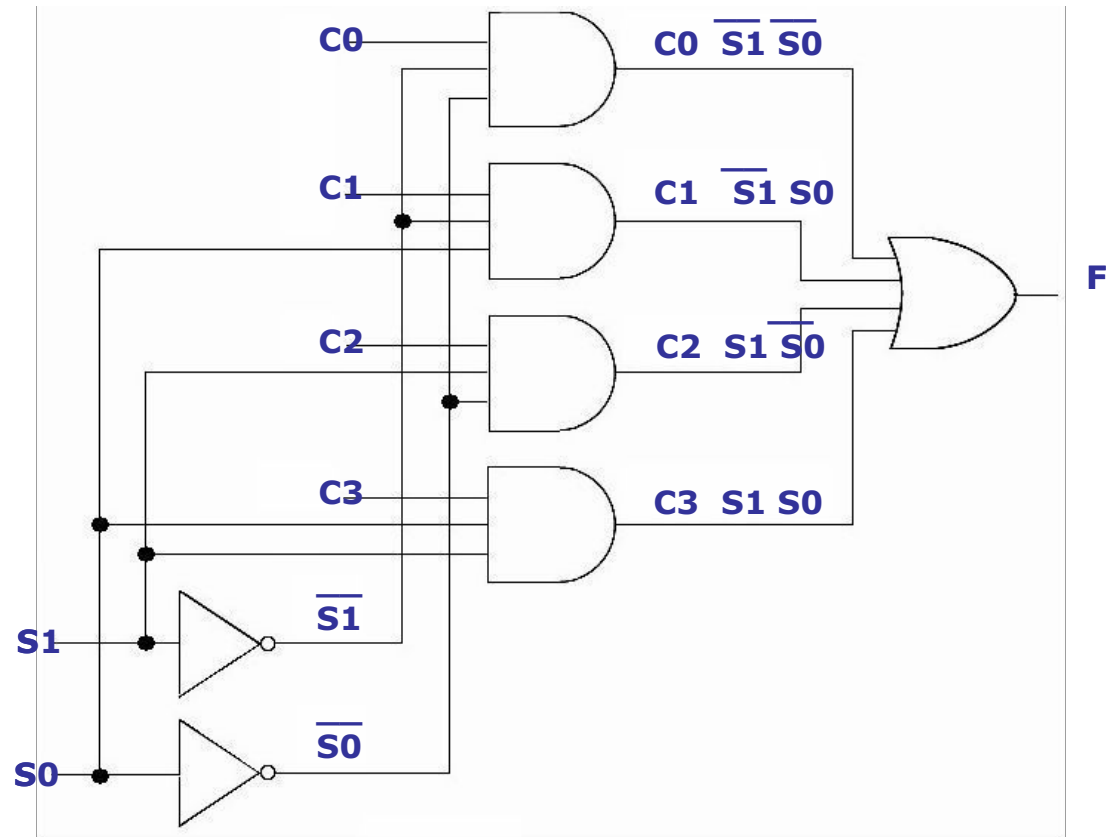
MULTIPLEXADOR

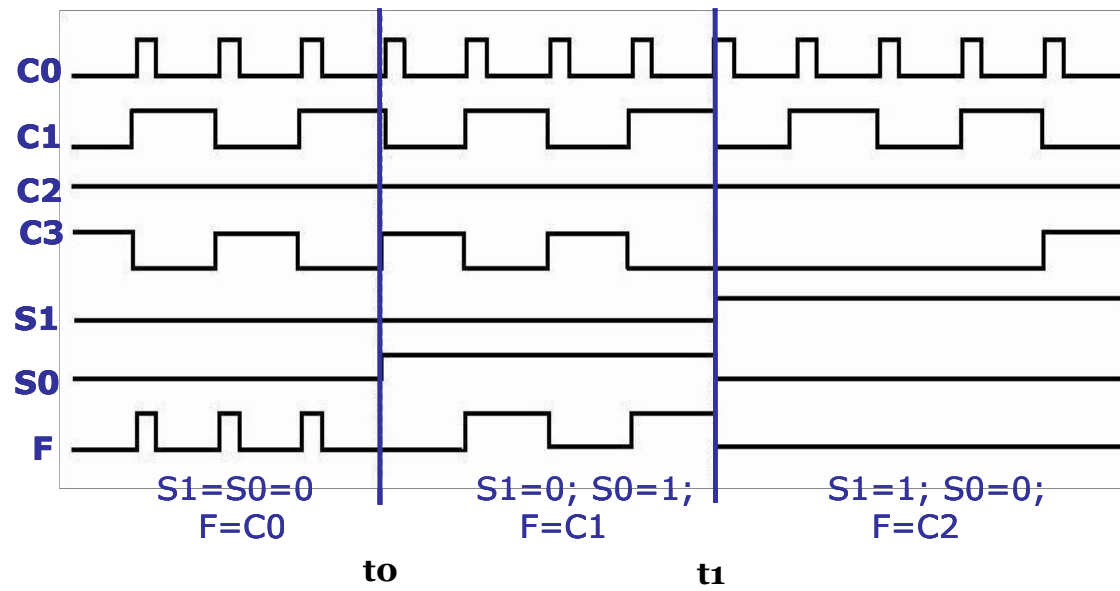


"MSB" →

| S1 | S0 | F |
|----|----|----|
| 0 | 0 | C0 |
| 0 | 1 | C1 |
| 1 | 0 | C2 |
| 1 | 1 | C3 |

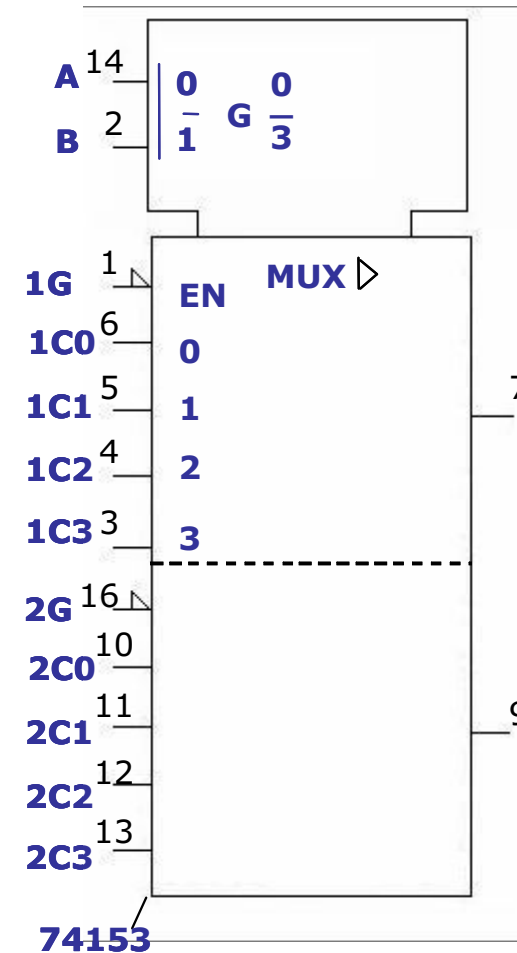
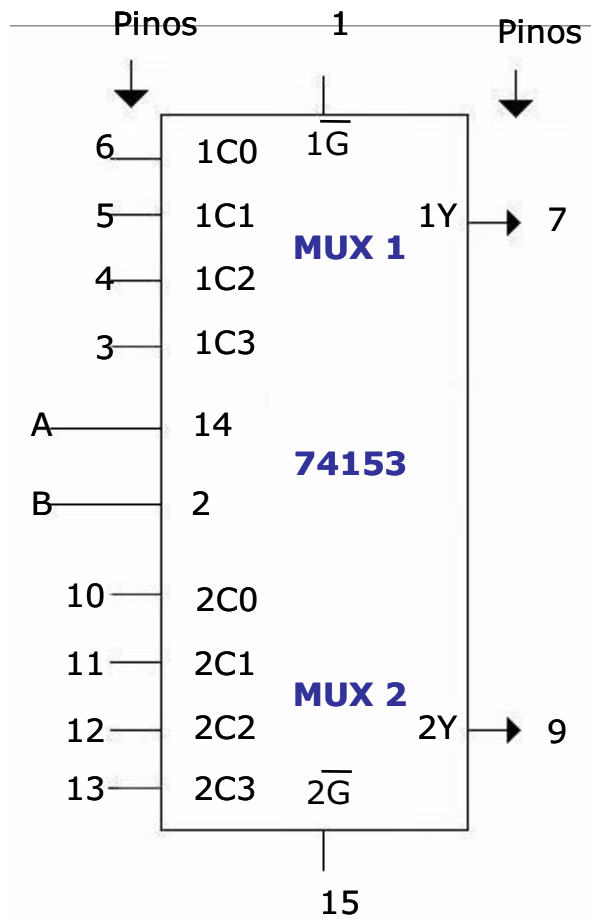


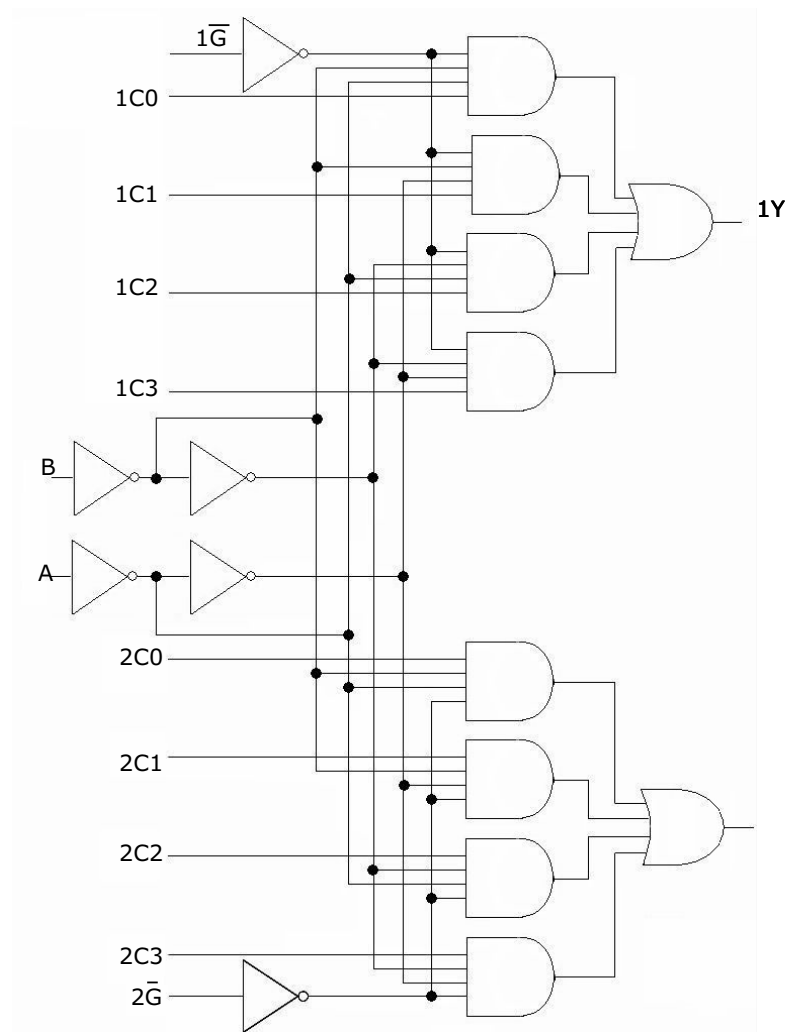




Circuitos Multiplexadores MSI

Duplo multiplexador com 4 canais: 74153, 74XX153, 74253, 74XX253

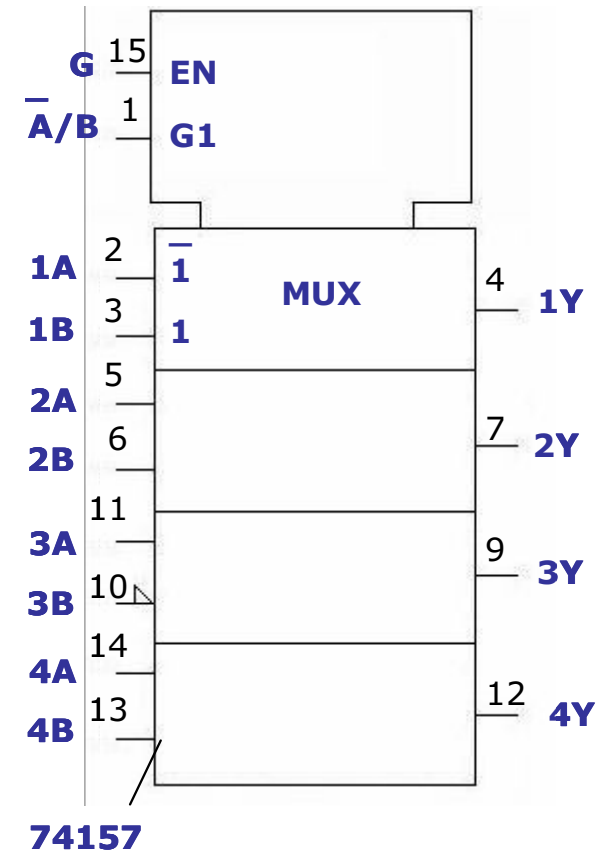
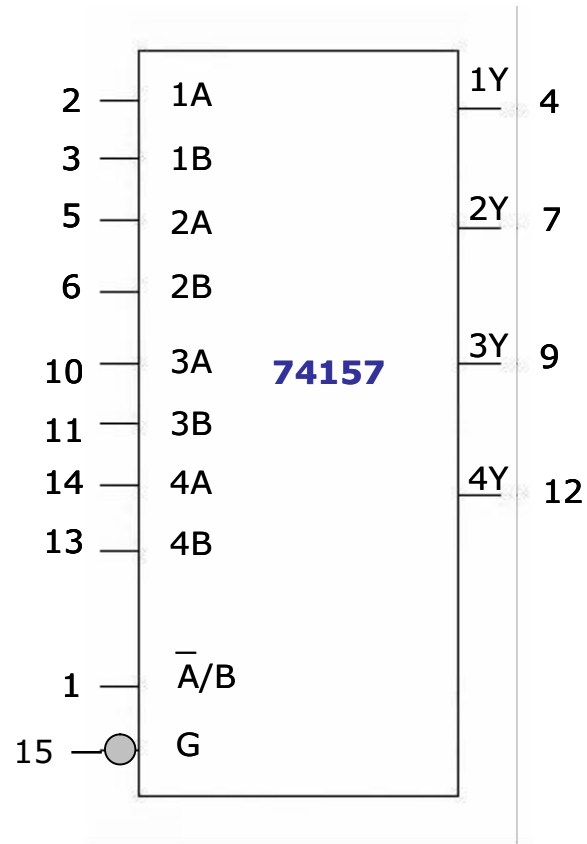




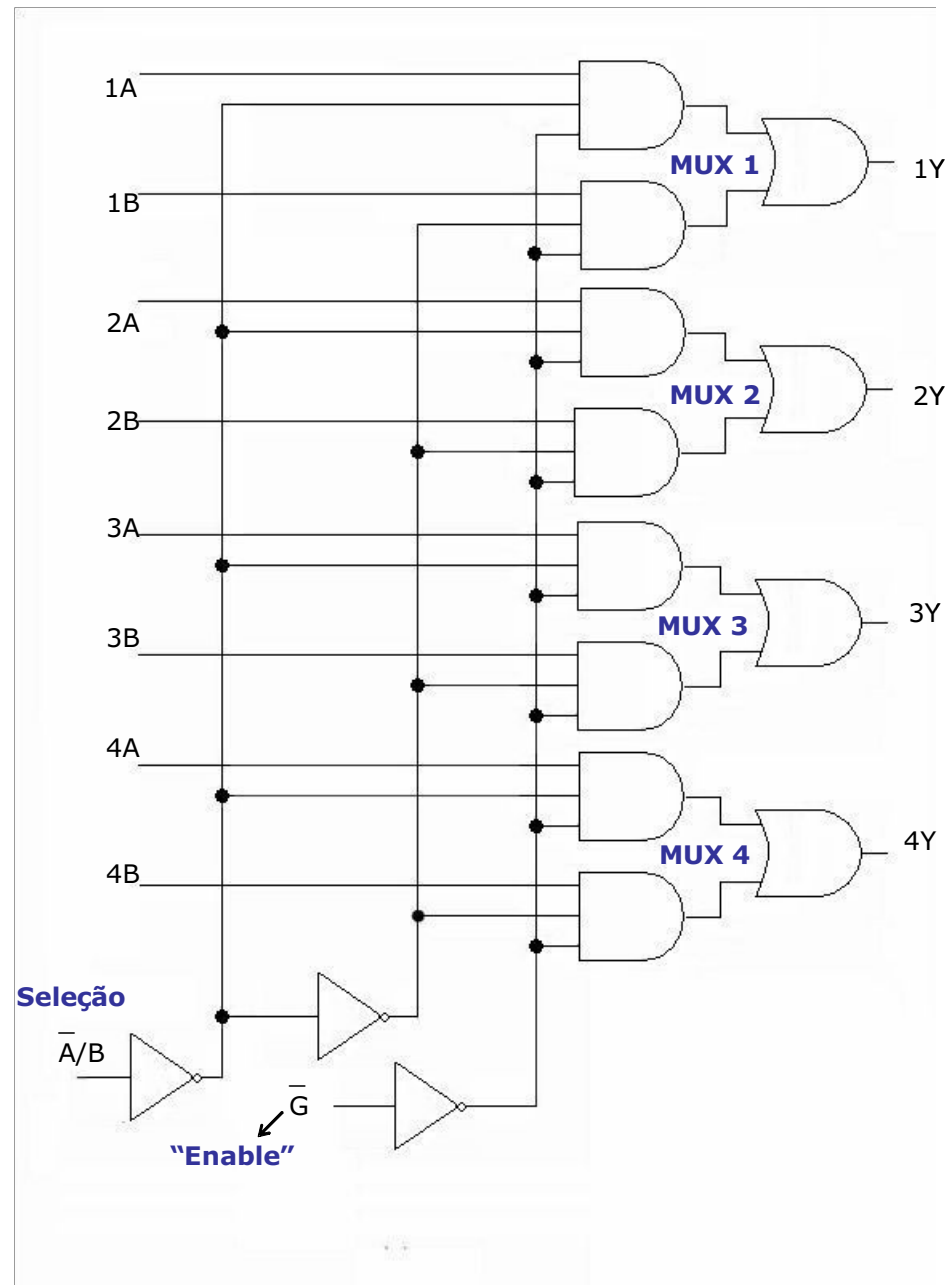
| Entradas | | | | | | | Saídas | Comentário |
|----------|---|----------|-----------------|-----|-----|-----|--------|------------------------|
| Seleção | | "Enable" | Canais de Dados | | | | | |
| B | A | nG | nC0 | nC1 | nC2 | nC3 | nY | |
| X | X | 1 | X | X | X | X | 0 | Bloqueio |
| 0 | 0 | 0 | 0 | X | X | X | 0 | Saída igual ao canal 0 |
| 0 | 0 | 0 | 1 | X | X | X | 1 | Saída igual ao canal 0 |
| 0 | 1 | 0 | X | 0 | X | X | 0 | Saída igual ao canal 1 |
| 0 | 1 | 0 | X | 1 | X | X | 1 | Saída igual ao canal 1 |
| 1 | 0 | 0 | X | X | 0 | X | 0 | Saída igual ao canal 2 |
| 1 | 0 | 0 | X | X | 1 | X | 1 | Saída igual ao canal 2 |
| 1 | 1 | 0 | X | X | X | 0 | 0 | Saída igual ao canal 3 |
| 1 | 1 | 0 | X | X | X | 1 | 1 | Saída igual ao canal 3 |

X=1 ou 0; n=1 ou 2.

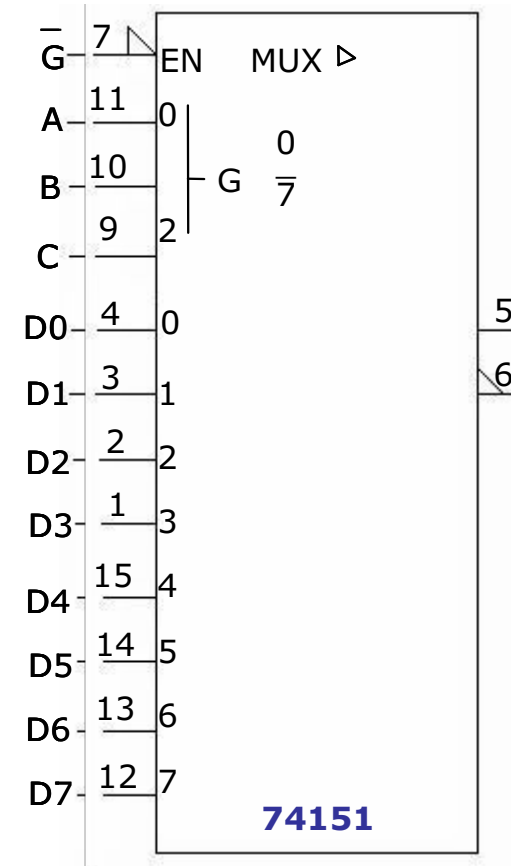
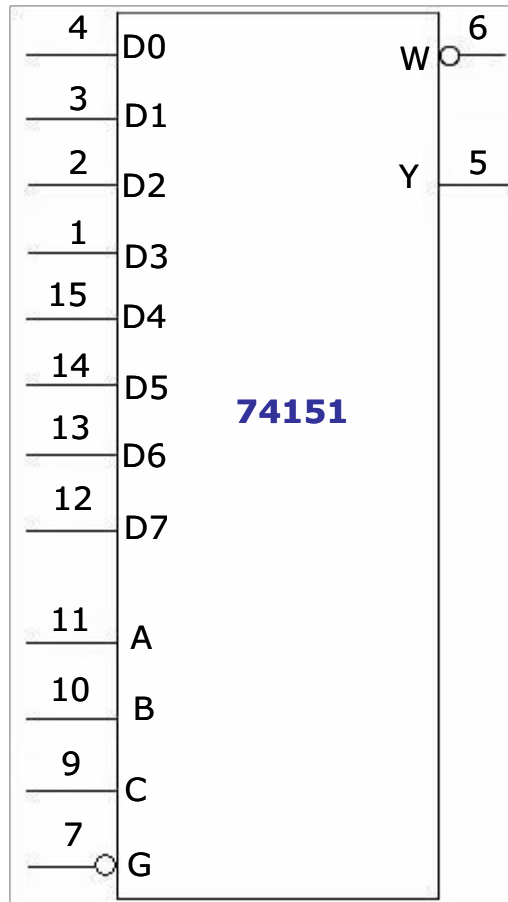
Quádruplo multiplexador com 2 canais: 74157, 74XX157, 74257, 74XX257



| | | Entradas | | | | | | | | Saídas | | | | |
|-------------|----------|-----------------|----|-------|----|-------|----|-------|----|--------|----|----|----|---------------------------|
| Controle | | Canais de Dados | | | | | | | | | | | | |
| Seleção | "Enable" | Mux 1 | | Mux 2 | | Mux 3 | | Mux 4 | | | | | | Observação |
| \bar{A}/B | G' | 1A | 1B | 2A | 2B | 3A | 3B | 4A | 4B | 1Y | 2Y | 3Y | 4Y | |
| X | 1 | X | X | X | X | X | X | X | X | 0 | 0 | 0 | 0 | Bloqueio |
| 0 | 0 | 0 | X | 0 | X | 0 | X | 0 | X | 0 | 0 | 0 | 0 | 1Y, 2Y, 3Y e 4Y = canal 0 |
| 0 | 0 | 1 | X | 1 | X | 1 | X | 1 | X | 1 | 1 | 1 | 1 | |
| 1 | 0 | X | 0 | X | 0 | X | 0 | X | 0 | 0 | 0 | 0 | 0 | 1Y, 2Y, 3Y e 4Y = canal 1 |
| 1 | 0 | X | 1 | X | 1 | X | 1 | X | 1 | 1 | 1 | 1 | 1 | |

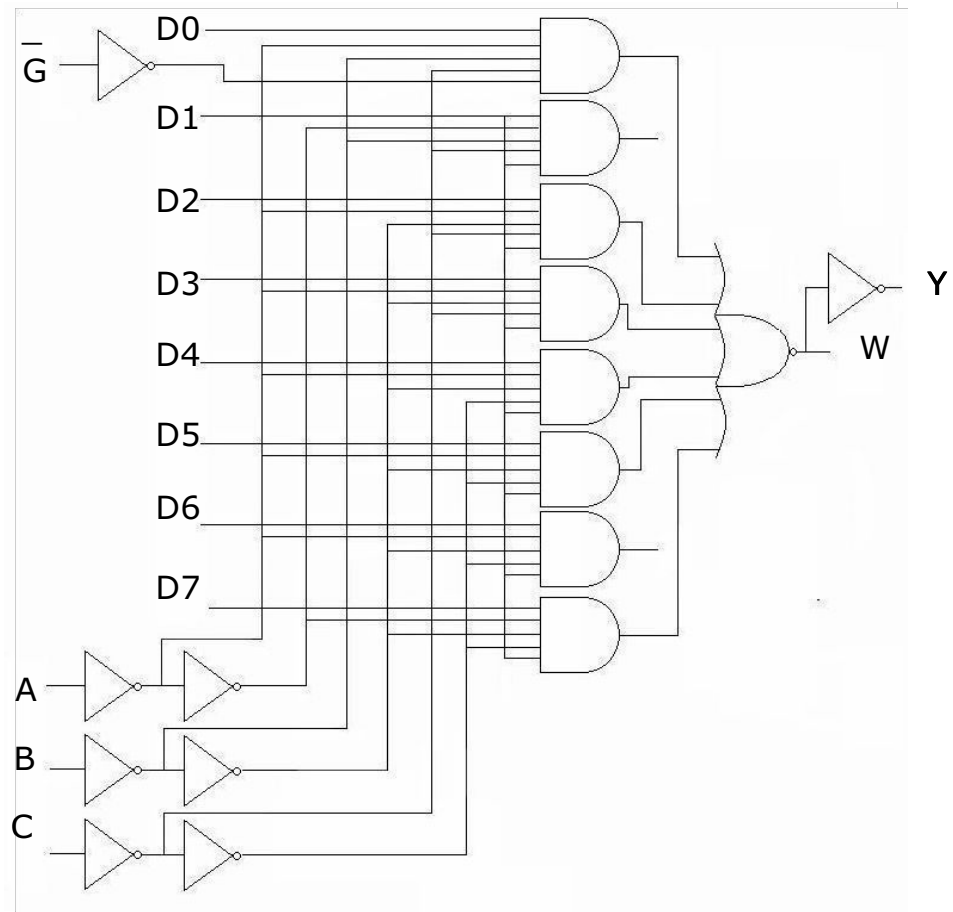


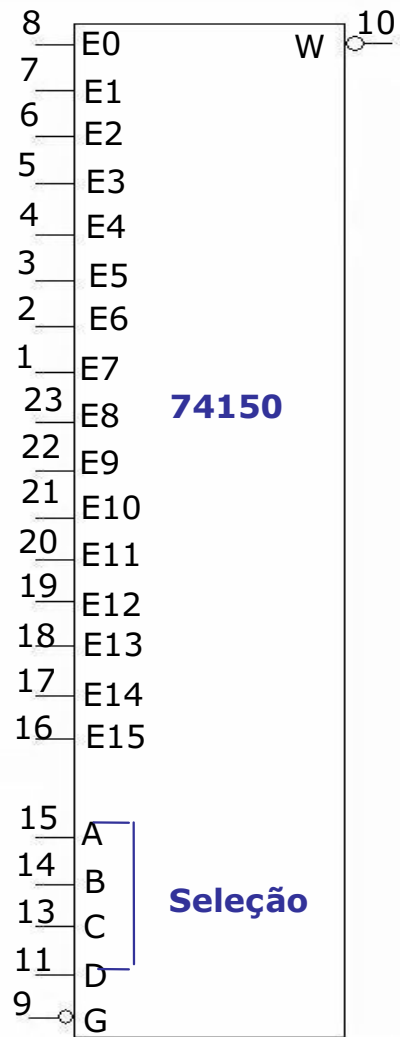
**Multiplexadores com 8 e 16 canais:
74151, 74XX151, 74150, 74XX150, 74251, 74XX251**



| "Enable" | Seleção | | | Saídas | |
|----------|---------|---|---|--------|------------------|
| G' | C | B | A | Y | $\overline{W=Y}$ |
| 1 | X | X | X | 0 | 1 |
| 0 | 0 | 0 | 0 | D0 | $\overline{D0}$ |
| 0 | 0 | 0 | 1 | D1 | $\overline{D1}$ |
| 0 | 0 | 1 | 0 | D2 | $\overline{D2}$ |
| 0 | 0 | 1 | 1 | D3 | $\overline{D3}$ |
| 0 | 1 | 0 | 0 | D4 | $\overline{D4}$ |
| 0 | 1 | 0 | 1 | D5 | $\overline{D5}$ |
| 0 | 1 | 1 | 0 | D6 | $\overline{D6}$ |
| 0 | 1 | 1 | 1 | D7 | $\overline{D7}$ |



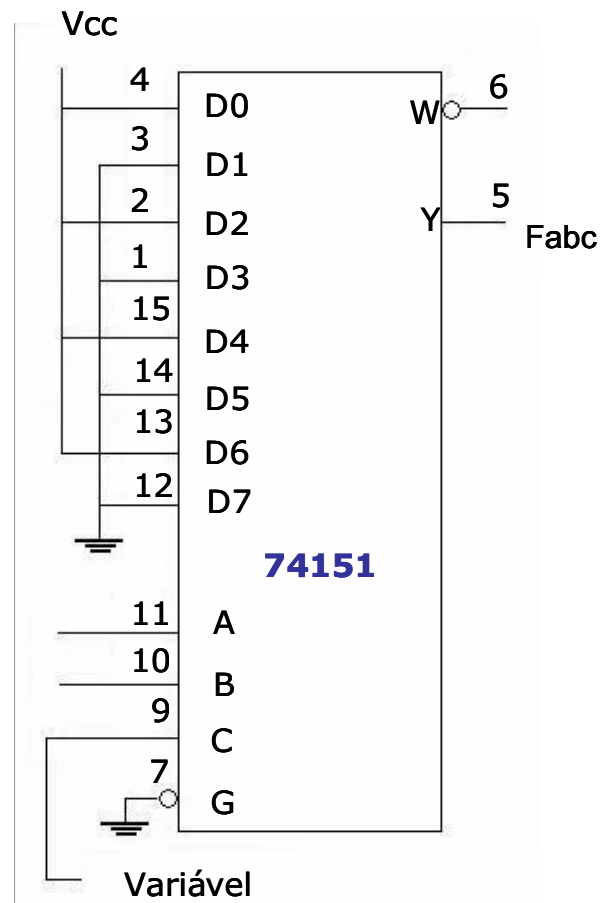




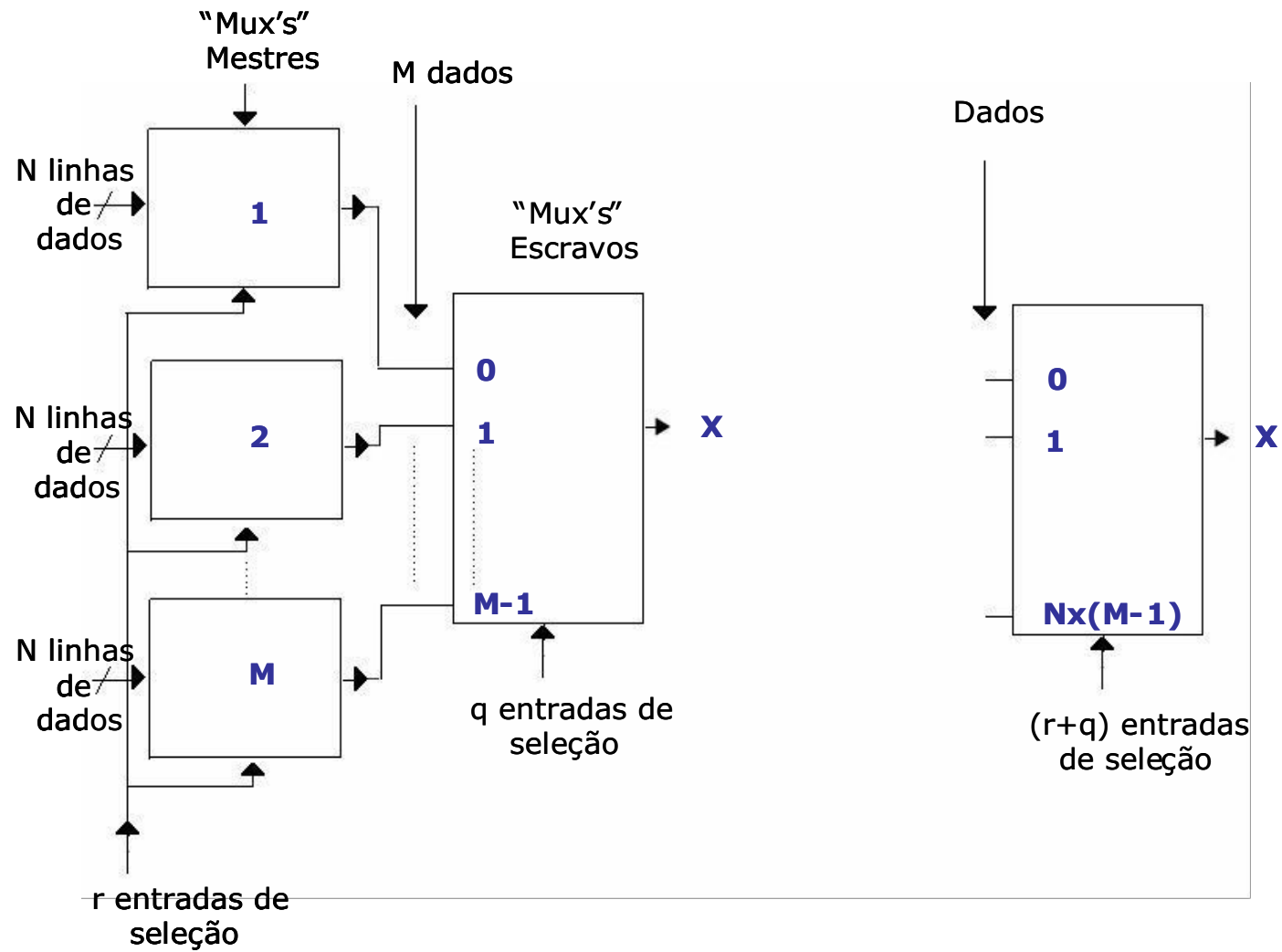
| G' | D | C | B | A | W |
|----|---|---|---|---|-----|
| 1 | X | X | X | X | 1 |
| 0 | 0 | 0 | 0 | 0 | E0 |
| 0 | 0 | 0 | 0 | 1 | E1 |
| 0 | 0 | 0 | 1 | 0 | E2 |
| 0 | 0 | 0 | 1 | 1 | E3 |
| 0 | 0 | 1 | 0 | 0 | E4 |
| 0 | 0 | 1 | 0 | 1 | E5 |
| 0 | 0 | 1 | 1 | 0 | E6 |
| 0 | 0 | 1 | 1 | 1 | E7 |
| 0 | 0 | 0 | 0 | 0 | E8 |
| 0 | 1 | 0 | 0 | 1 | E9 |
| 0 | 1 | 0 | 1 | 0 | E10 |
| 0 | 1 | 0 | 1 | 1 | E11 |
| 0 | 1 | 1 | 0 | 0 | E12 |
| 0 | 1 | 1 | 0 | 1 | E13 |
| 0 | 1 | 1 | 1 | 0 | E14 |
| 0 | 1 | 1 | 1 | 1 | E15 |

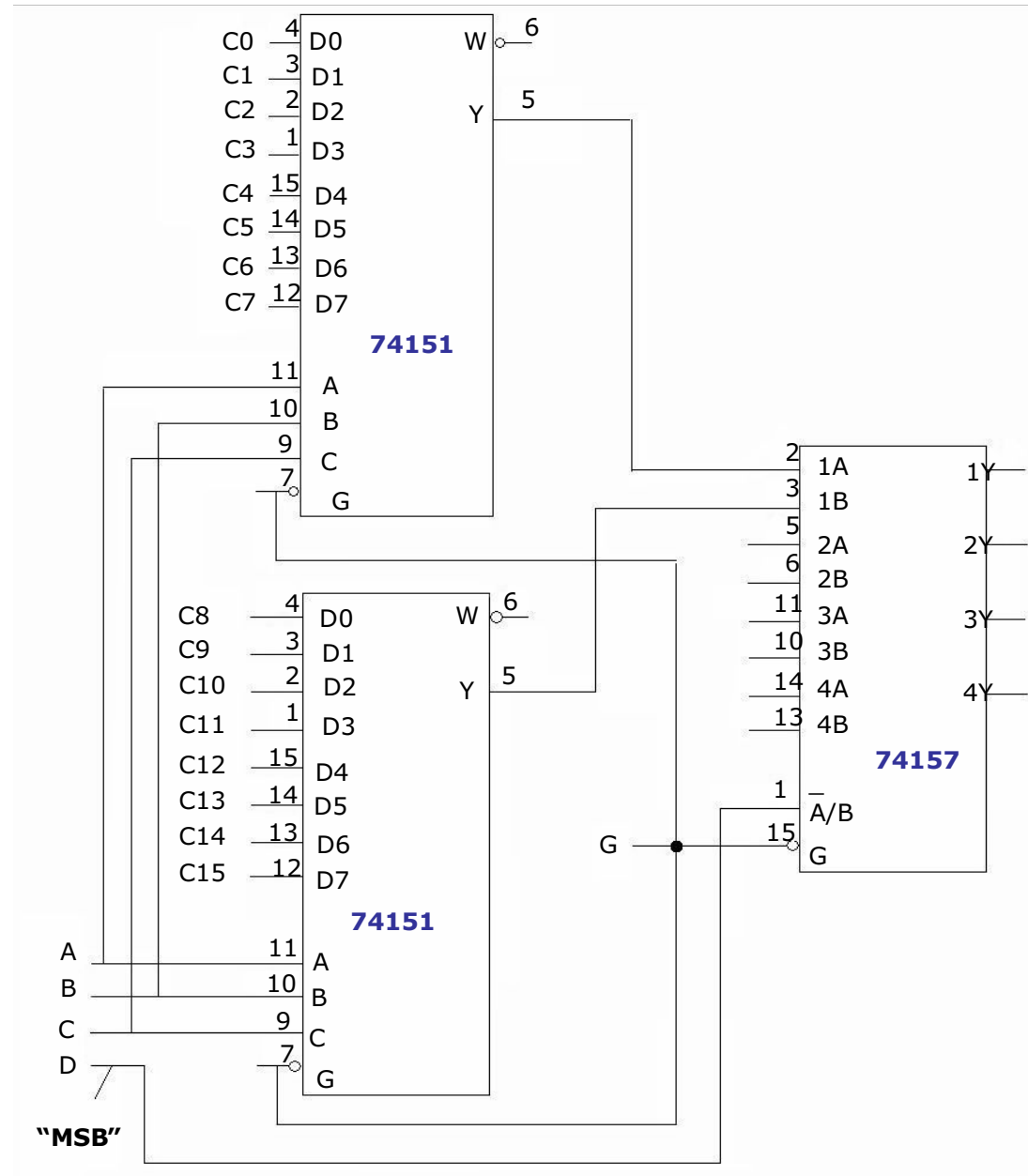
APLICAÇÕES COM MULTIPLEXADORES

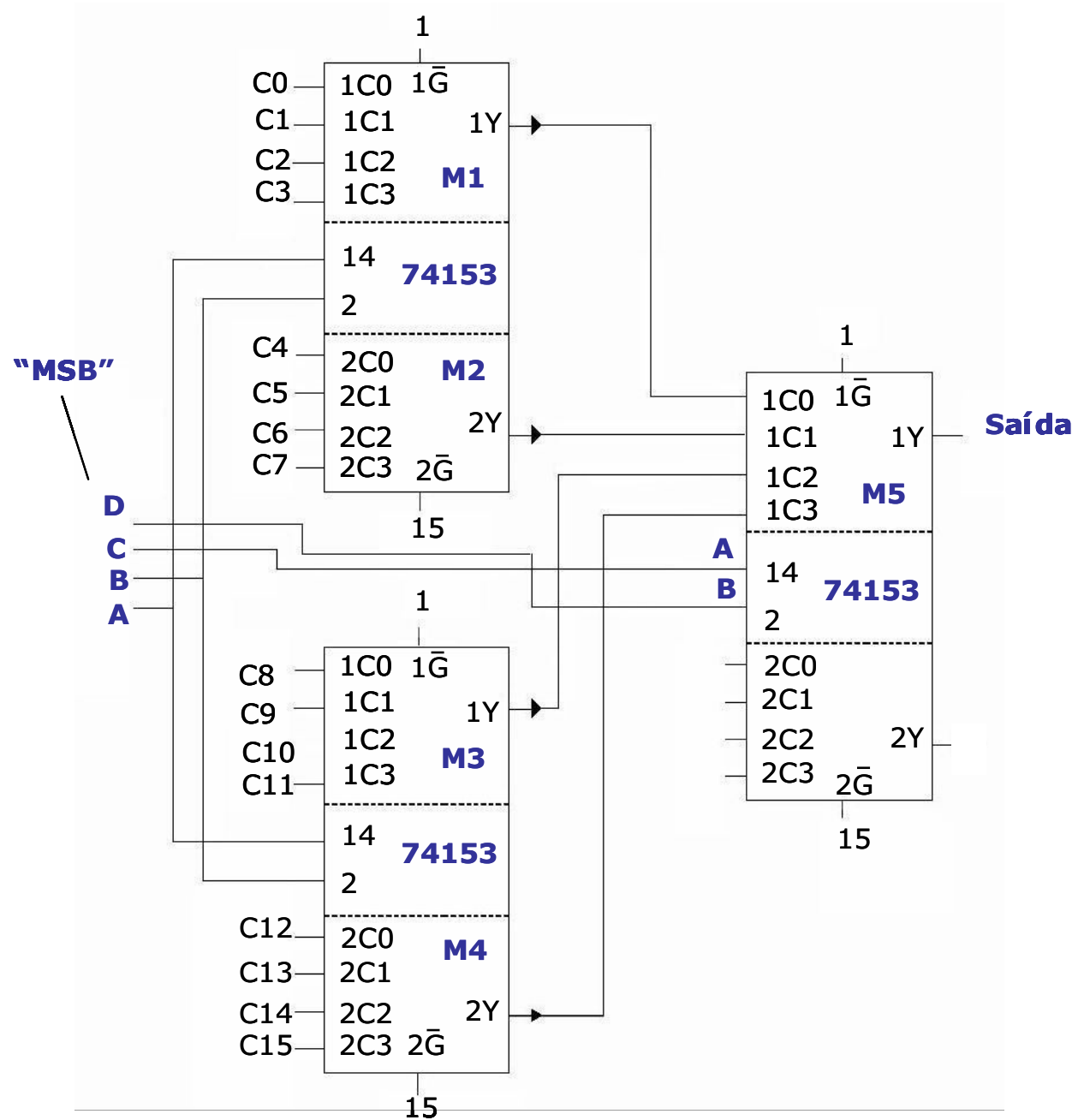
Geração de funções booleanas



Associação de Multiplexadores







Selecionador de palavras

