### Atividade Avaliativa 2 - GA Prototipação Digital

#### Aline Nunes e Davi Schmitz

#### **Tabela Verdade**

Entradas de estado (Gray)		Saidas de estado				Saidas de LEDS						Saidas que atuam os timers		
S1	S0	SO1	SO2	SO3	SO4	MR	MY	MG	SR	SY	SG	TL	TS	
0	0	1	0	0	0	0	0	1	1	0	0	1	0	
0	1	0	1	0	0	0	1	0	1	0	0	0	1	
1	1	0	0	1	0	1	0	0	0	0	1	1	0	
1	0	0	0	0	1	1	0	0	0	1	0	0	1	

### Expressões booleanas

SO1 = /S1 AND /S0

SO2 = /S1 AND S0

SO3 = S1 AND S0

S04 = S1 AND /S0

MR = SO3 OU SO4

MY = SO2

MG = SO1

SR = SO1 OU SO2

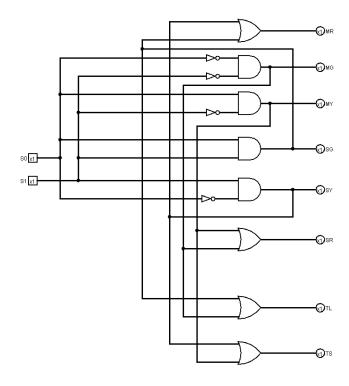
SY = SO4

SG = SO3

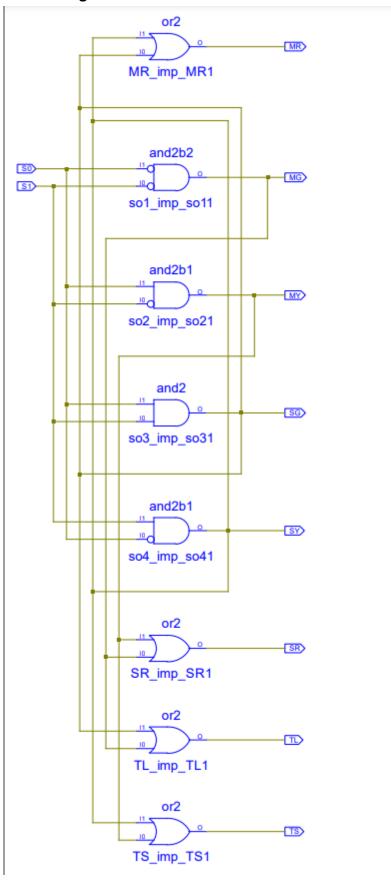
TL = SO1 OU SO3

TS = SO2 OU SO4

# Circuito lógico combinacional



## Circuito combinacional gerado no ISE

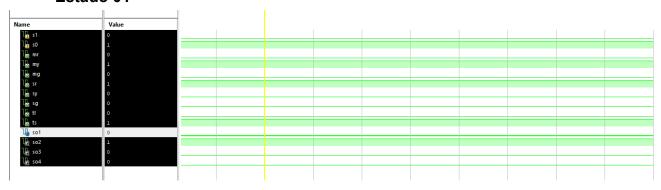


## Simulação com ISE

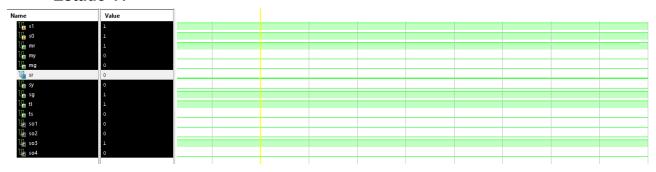
### - Estado 00

Name	Value						
<b>∏</b> 51	0						
1 <mark>₀</mark> s0	0						
l <mark>m</mark> mr	0						
l <sub>m</sub> my	0						
l <mark>m</mark> mg	1						
T <u>m</u> sr	1						
l <sub>□</sub> sy	0						
l∰ sg	0						
୍ଲ ti	1						
୍ୟ ts	0						
Ve so1	1						
Un so2	0						
Un so3	0						
Ve so4	0						
	H	E					

### - Estado 01



### - Estado 11



# - Estado 10

