Priority Encoder Exercices

1. Analyze the truth table of the 74148 8:3 Priroity Encoder
2. Write a VHDL model to describe the 74148.
3. Simulate the block.

74148 Truth Table

Inputs									Outputs				
EL_L	I0_L	I1_L	I2_L	I3_L	I4_L	I5_L	I6_L	I7_L	A2_L	A1_L	A0_L	GS_L	EO_L
1	x	x	x	x	x	x	x	x	1	1	1	1	1
0	x	x	x	x	x	x	x	0	0	0	0	0	1
0	x	x	x	x	x	x	0	1	0	0	1	0	1
0	x	x	x	x	x	0	1	1	0	1	0	0	1
0	x	x	x	x	0	1	1	1	0	1	1	0	1
0	x	x	x	0	1	1	1	1	1	0	0	0	1
0	x	x	0	1	1	1	1	1	1	0	1	0	1
0	x	0	1	1	1	1	1	1	1	1	0	0	1
0	0	1	1	1	1	1	1	1	1	1	1	0	1
0	1	1	1	1	1	1	1	1	1	1	1	1	0

74x148