

Taller 11 - Introducción a los Sistemas Embebidos

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1. Preguntas cortas

```
josav09@FrostriteGnome:~/Documents/Git/TareasTEC/Embebidos/Taller11$ make counter
g++ -I/opt/systemc/include -L/opt/systemc/lib-linux64 -o test_counter test_counter.cpp -lsystemc -lm
./test_counter

SystemC 2.3.1-Accellera --- Jul 16 2020 15:22:39
Copyright (c) 1996-2014 by all Contributors,
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Executing new

Info: (I702) default timescale unit used for tracing: 1 ps (counter.vcd)
@11 ns Asserting reset
@31 ns De-Asserting reset
@41 ns Asserting Enable
@42 ns :: Incremented Counter0
@44 ns :: Incremented Counter1
@46 ns :: Incremented Counter2
@48 ns :: Incremented Counter3
@50 ns :: Incremented Counter4
@52 ns :: Incremented Counter5
@54 ns :: Incremented Counter6
@56 ns :: Incremented Counter7
@58 ns :: Incremented Counter8
@60 ns :: Incremented Counter9
@62 ns :: Incremented Counter10
@64 ns :: Incremented Counter11
@66 ns :: Incremented Counter12
@68 ns :: Incremented Counter13
@70 ns :: Incremented Counter14
@72 ns :: Incremented Counter15
@74 ns :: Incremented Counter0
@76 ns :: Incremented Counter1
@78 ns :: Incremented Counter2
@80 ns :: Incremented Counter3
@81 ns De-Asserting Enable
@81 ns Terminating simulation
```

Figura 1: Salida del testbench en consola

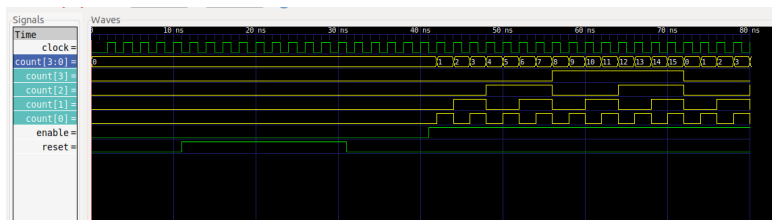


Figura 2: Salida del testbench con GTK Wave

2. Ejercicios prácticos

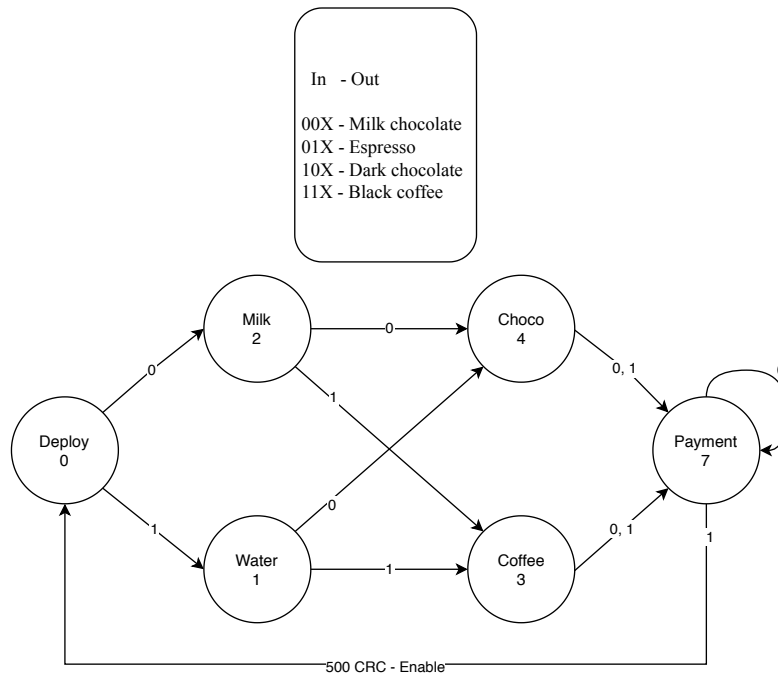


Figura 3: Diagrama de estado de la máquina expendedora

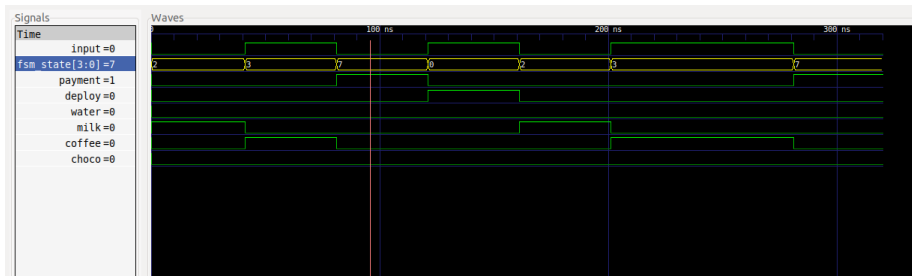


Figura 4: Simulación de la máquina expendedora