

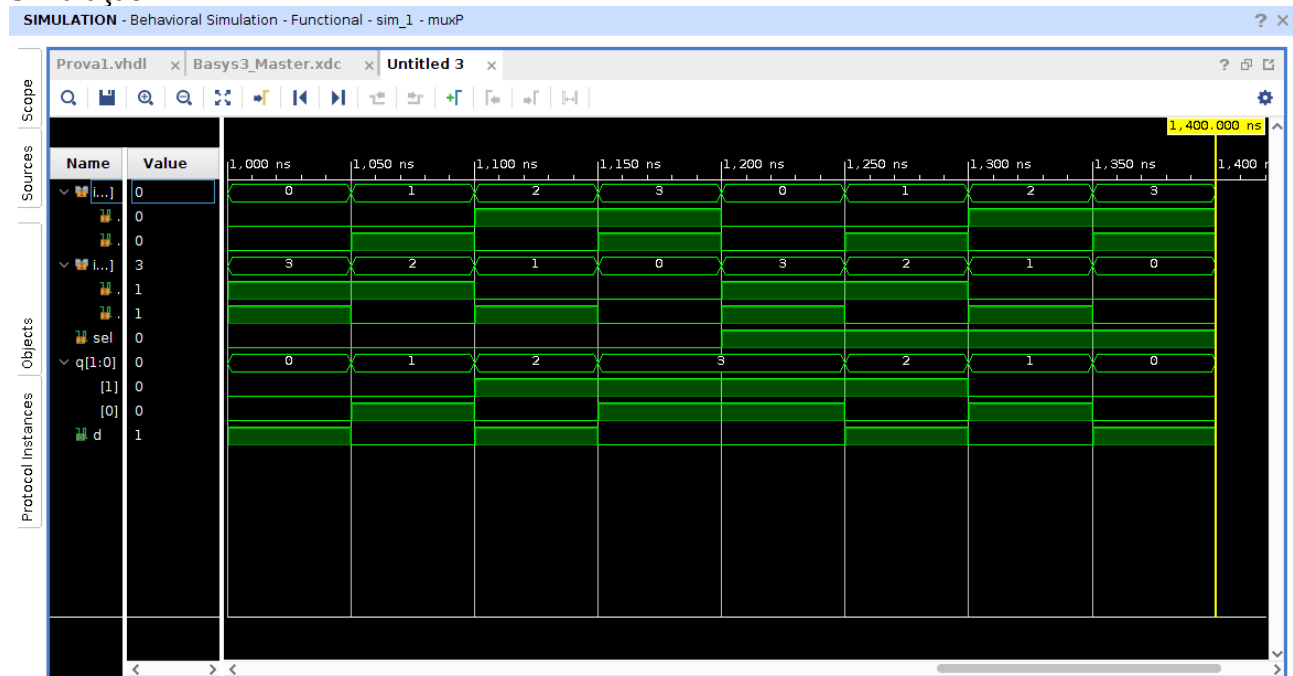
```

library IEEE;
use IEEE.STD_LOGIC_UNSIGNED.ALL;
use IEEE.STD_LOGIC_1164.ALL;

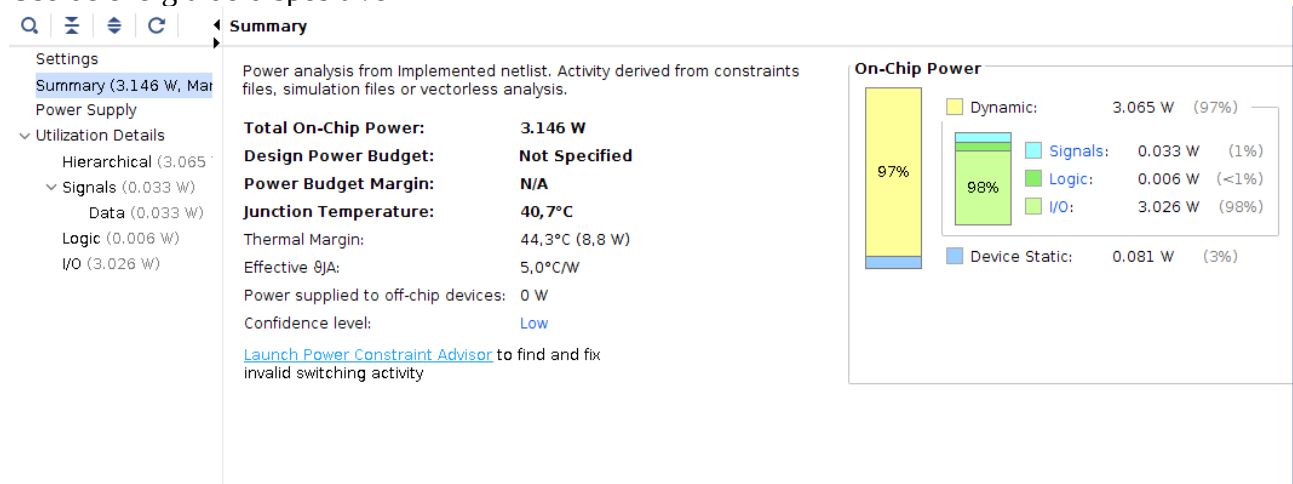
entity muxP is
port(
    in0, in1    : in STD_LOGIC_VECTOR (1 downto 0);
    sel        : in  bit;
    q          : inout STD_LOGIC_VECTOR (1 downto 0);
    d          : out bit
);
end entity;
architecture arcMux of muxP is
begin
--q é a saída do circuito
    q <= in0 when sel='0'
        else in1;
    d <= '1' when q = "00"
        else '1' when q = "10"
        else '0';
end architecture;

```

Simulação



Uso de energia do dispositivo



Esquemático

