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Workspace: Work = atv05
Toplevel = testarquitectura
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Workspace 'atv05' Files

- Library ieee => \$SYMPHONYEDA/...
- Library atv05 => C:/Users/wi...
 - stateconverter.vhdl
 - inib.vhdl
 - enable.vhdl
 - sevenSegDecoder.vhdl
 - display.vhdl
 - arquitectura.vhdl
 - testArquitectura.vhdl
 - testEnable.vhdl
 - testInib.vhdl
 - testStateConverter.vhdl

```

1  entity stateConverter is
2      port(
3          temp: in bit_vector(7 downto 0);
4          state: out bit_vector(2 downto 0);
5          transition: out bit_vector(2 downto 0)
6      );
7  end entity;
8
9  architecture behavior of stateConverter is
10
11  begin
12
13      state <= "000" when temp >= "00000000" and temp < "00001010" else
14          "001" when temp > "00001010" and temp < "00010100" else
15          "010" when temp > "00010100" and temp < "00011110" else
16          "011" when temp > "00011110" and temp < "00111100" else
17          "100" when temp > "00111100";
18
19      transition <= "001" when temp = "00001010" else
20          "010" when temp = "00010100" else
21          "011" when temp = "00011110" else
22          "100" when temp = "00111100" else
23          "000";
24
25  end architecture;
26
27

```