

Html generated by [Symphony EDA](#) Sonata for 'C:/Users/welly/Documents/GitHub/LT38A/pratica05/simili/arquitetura.vhdl'

Source file last modified on Thu Oct 19 23:53:20 Hora oficial do Brasil 2023

Note: Use IE 5+ or Netscape 6+ or Mozilla Firefox for best results

```
1  entity arquitetura is
2      port(
3
4          temp: in bit_vector(7 downto 0);
5          en: in bit;
6          inibicao: in bit;
7
8          outssState, outssTransition: out bit_vector(6 downto 0);
9          outssTemp0,outssTemp1,outssTemp2: out bit_vector(6 downto 0)
10
11      );
12  end entity;
13
14  architecture behavior of arquitetura is
15
16      component enable is
17          port(
18              temp: in bit_vector(7 downto 0);
19              en: in bit;
20              S: out bit_vector(7 downto 0)
21          );
22      end component;
23
24      signal S: bit_vector(7 downto 0);
25
26      component stateConverter is
27          port(
28              temp: in bit_vector(7 downto 0);
29              state: out bit_vector(2 downto 0);
30              transition: out bit_vector(2 downto 0)
31          );
32      end component;
33
34      signal state: bit_vector(2 downto 0);
35      signal transition: bit_vector(2 downto 0);
36
37      component display is
38          port(
39              etemp: in bit_vector(7 downto 0);
40              state, transition: in bit_vector(2 downto 0);
41
42              ssState, ssTransition: out bit_vector(6 downto 0);
43              ssTemp0,ssTemp1,ssTemp2: out bit_vector(6 downto 0)
44          );
45      end component;
46
47      signal ssState, ssTransition: bit_vector(6 downto 0);
48      signal ssTemp0,ssTemp1,ssTemp2: bit_vector(6 downto 0);
49
50      component inib is
51          port(
52              ssState, ssTransition: in bit_vector(6 downto 0);
53              ssTemp0,ssTemp1,ssTemp2: in bit_vector(6 downto 0);
54              inib: in bit;
55              outssState, outssTransition: out bit_vector(6 downto 0);
56              outssTemp0,outssTemp1,outssTemp2: out bit_vector(6 downto 0)
57          );
58      end component;
59
60  begin
61
62      enable0: enable port map(temp,en,S);
63      stateConverter0: stateConverter port map(S,state,transition);
64      display0: display port map(S,state,transition,ssState,ssTransition,ssTemp0,ssTemp1,ssTemp2);
65      inib0: inib port map(ssState,ssTransition,ssTemp0,ssTemp1,ssTemp2,inibicao,outssState,outssTransition,outssTemp0,
66
67  end architecture;
68
69
70
```

Note: Modifying your display preferences for the text editor in Sonata will correspondingly modify the look and feel of the generated HTML file. Also, to properly print background colors, you may have to enable a setting in your browser (especially IE users).

