1 Example VHDL code

Here's an example of how to include VHDL code in a LaTeX document using the ${\tt listings}$ package:

Listing 1: Example VHDL code

```
library ieee;
   use ieee.std_logic_1164.all;
   entity example is
   port (
   clk : in std_logic;
   rst : in std_logic;
   data_in : in std_logic_vector(7 downto 0);
   data_out : out std_logic_vector(7 downto 0)
   );
   end entity;
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   architecture rtl of example is
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   begin
  -- insert your VHDL code here
   end architecture;
```