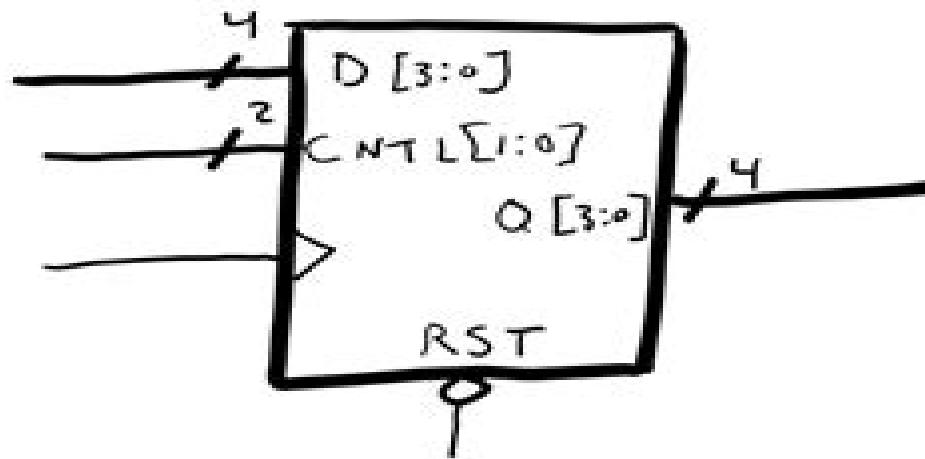


1. We will implement a 4 bit shift register in VHDL. The block diagram is:



The ports are:

D 4 bit std_logic vector
CNTL 2 bit std_logic vector
CLK std_logic
RST std_logic
Q 4 bit std_logic_vector

RST is an asynchronous active-low reset

The operation of this shift register is dictated by the control line as follows:

CNTL	Operation
00	Load but no shift.
01	Shift Right ($Q_3Q_2Q_1Q_0$ becomes $0\ Q_3Q_2Q_1$)
02	Shift Left ($Q_3Q_2Q_1Q_0$ becomes $Q_2Q_1Q_0\ 0$)
03	Hold (no change, despite the clock)

- Write your VHDL code for this 4-bit shift register. Use the entity name: Shift4
- Write a VHDL testbed to test your code. Use the entity name: Shift4_TB. The testbed should execute the waveform shown below.
- Submit the VHDL code, the VHDL testbed, and a screenshot showing the working simulation waveform (input and output).

Vhdl Code For 4 Bit Shift Register

N Colangelo



Vhdl Code For 4 Bit Shift Register:

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