

Appendix E

VHDL Quick Reference Guide

Category	Definition	Example
Identifier Names	Can contain any letter, digit, or underscore _ Must start with alphabetic letter Can not end with underscore or be a keyword Case insensitive	q0 Prime_number litedlg
Signal Values	'0' = logic value 0 '1' = logic value 1 'Z' = high impedance 'X' = unknown value	
Numbers and Bit Strings	<base>#xxx# B = binary X = hexadecimal O = octal	35 (default decimal) 16#C# = "1100" X'3C' = B'00111100" O'234' = B'010011100"
Generic statement	Associates an identifier name with a value that can be overridden with the generic map statement	generic (N:integer := 8);
generic map	Assigns a value to a generic parameter	generic map (N => 16)
Signals and Variables Types	signal (used to connect one logic element to another) variable (variables assigned values in process) integer (useful for loop control variables)	signal s : std_logic_vector(8 to 3); signal led: std_logic; variable q: std_logic_vector(7 downto 0); variable k: integer;
Program structure	<pre>library IEEE; use IEEE.STD_LOGIC_1164.all; entity <identifier> is port(<port interface list >; end <identifier>; architecture <identifier> of <entity_name> is begin process(clk, clr) begin [[concurrent_statement]] end <identifier>;</pre>	<pre>library IEEE; use IEEE.STD_LOGIC_1164.all; entity Dff is port(clk : in std_logic; clr : in std_logic; D : in std_logic; q : out std_logic); end Dff; architecture Dff of Dff is begin process(clk, clr) begin if (clr = '1') then q <= '0'; elsif (rising_edge(clk)) then q <= D; end if; end process; end Dff;</pre>
Logic operators	<pre>not and or nand nor xor xnor</pre>	<pre>a <= not y; c <= a and b; z <= x or y; w <= a nand v; r <= a nor t; s <= x xor y; d <= a xnor b;</pre>

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Michael Rajnik



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