

Solution Manual for Digital Systems Design Using VHDL 3rd Edition by Roth John
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Chapter 2 Solutions

2.1 (a) VHDL - VHSIC Hardware Description Language
VHSIC - Very High Speed Integrated Circuit

(b) VHDL has statements that execute concurrently since it must model real hardware in which the components are all in operation at the same time.

(c) A hardware description language allows a digital system to be designed and debugged at a higher level of abstraction than schematic capture with gates, flip-flops, and standard MSI building blocks. The details of the gates and flip-flops do not need to be handled during early phases of design. Designs are more portable when low-level library-specific details are not included in the model. HDLs allow the creation of such portable high-level behavioral models.

2.2 (a) Legal: A_123, and1; Illegal: 123A (Starts with number), _A123 (starts with underscore), A123_ (ends with underscore), c1 c2 (adjacent underscores), and (reserved word).

(b) They all equivalent. VHDL is not case sensitive.

2.3 (a)



(b)



```
2.4 entity Comb is
    port(A, B, C, D : in bit;
          Z : out bit);
end Comb;
architecture Comb2_1 of Comb is
    signal E, F, G, H, I : bit;
begin
    H<=(A and B and C) after 5 ns;
    E<=H or D after 5 ns;
    G<=(B nor C) after 5 ns;
    F<=G nand A after 5 ns;
    I<=not F after 2 ns;
    Z<=E xor I after 5 ns;
end Comb2_1;
```

2.5 (a) entity one_bit_sub is
port(x, y, bin: in bit;
diff, bout: out bit);

Solution Manual To Roth Vhdl

Rachel Sandford



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