Digital Systems Design Using VHDL 3rd Edition Roth

Chapter 8 Solutions

8.1
```
function vec2int (vec5: bit_vector(4 downto 0))
   return integer is
   variable temp: integer := 0;
begin
   for i in 4 downto 0 loop
     if vec5(i) = '1' then temp := temp + 1; end if;
     if i /= 0 then temp := temp*2; end if;
   end loop;
   return temp;
end vec2int;
```

It will take 0 simulation time for the function to execute.

8.2
```
function comp2 (bit_vec: bit_vector; N: integer)
   return bit_vector is
   variable comp: bit_vector(N-1 downto 0);
   variable firstone: boolean;
begin
   for i in 0 to N-1 loop
     if not firstone then
       if bit_vec(i) = '1' then
         firstone := true; end if;
       comp(i) := bit_vec(i);
     else
       comp(i) := not bit_vec(i); end if;
   end loop;
   return comp;
end comp2;
```

8.3   Assuming the array has a range 0 to $N-1$, and integer arrays are defined with:
```
   type IArr is array (natural range <>) of integer;

function LARGEST(ARR: IArr; N: integer)
   return integer is
variable max: integer := ARR(0);
begin
   for i in 1 to N - 1 loop
     if ARR(i) > max then max := ARR(i); end if;
   end loop;
   return max;
end LARGEST;
```

8.4   `function GT(A, B: bit_vector; N: integer) return boolean is`

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