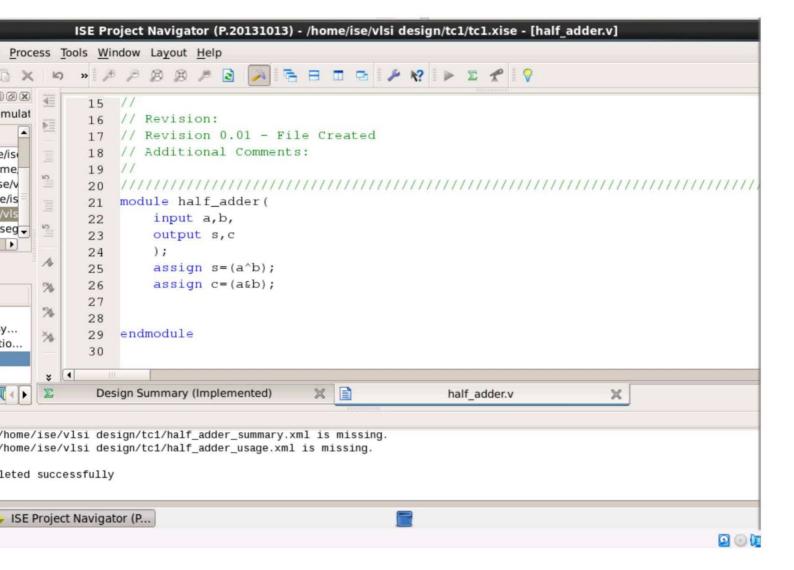
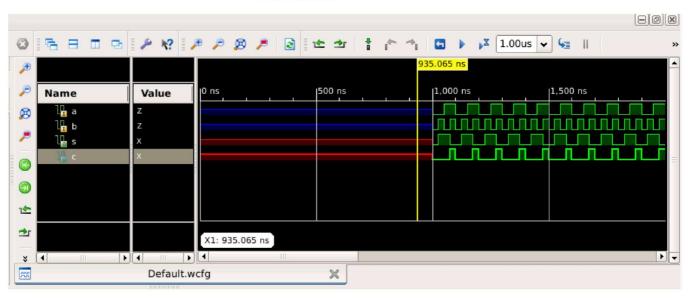


HALF ADDER



HALF ADDER

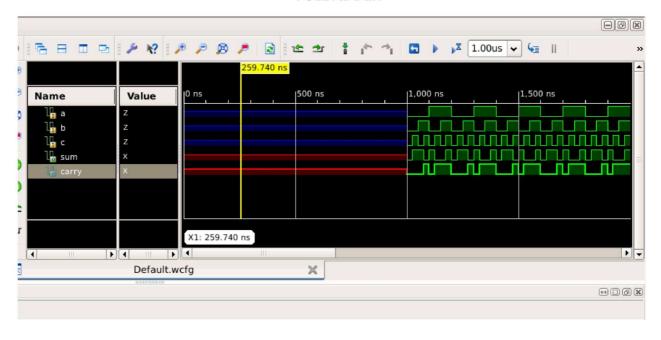


FULL ADDER

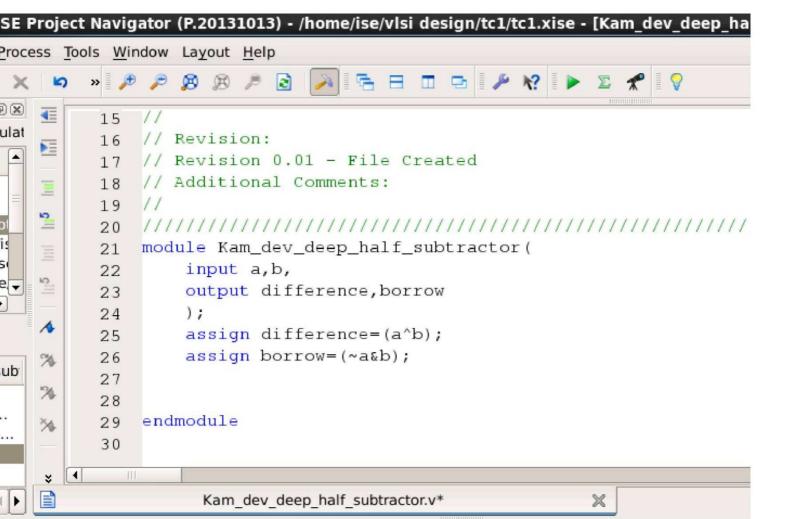
S

```
ISE Project Navigator (P.20131013) - /home/ise/vlsi design/tc1/tc1.xise - [full_adder.v]
Process Tools Window Layout Help
                                 5 H □ 5 / K? ▶ ∑ 📌 💡
           🏓 🔑 🙉 🕦 🌶 🗟
D X
   •
             11
         15
ulat
             // Revision:
         16
   E
             // Revision 0.01 - File Created
         17
             // Additional Comments:
         18
         19
             20
             module full_adder(
         21
e.
/\ -
                 input a,b,c,
         22
                 output sum, carry
         23
         24
                 assign sum=a^b^c;
         25
                 assign carry=(a&b)|(b&c)|(c&a);
         26
         27
   %
         28
             endmodule
   34
         29
         30
    * 4
   full adder.v
                                                        ×
ome/ise/vlsi design/tc1/half_adder_ngdbuild.xrpt is missing.
ome/ise/vlsi design/tc1/half_adder_par.xrpt is missing.
ome/ise/vlsi design/tc1/half_adder_summary.xml is missing.
ome/ise/vlsi design/tc1/half_adder_usage.xml is missing.
```

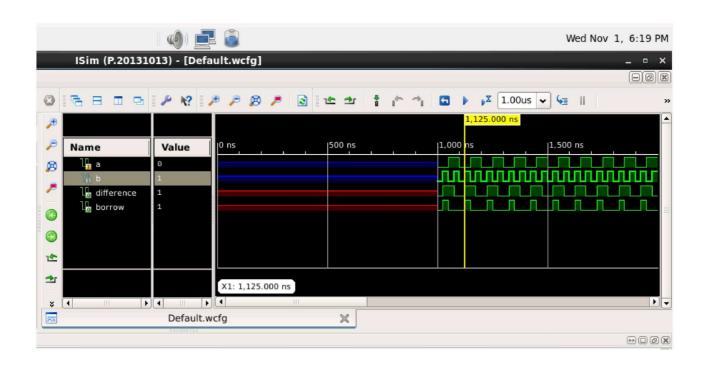
FULL ADDER



HALF SUBTRACTOR



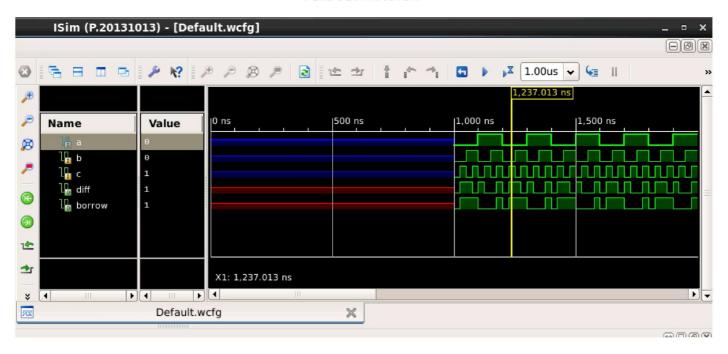
HALF SUBTRACTOR



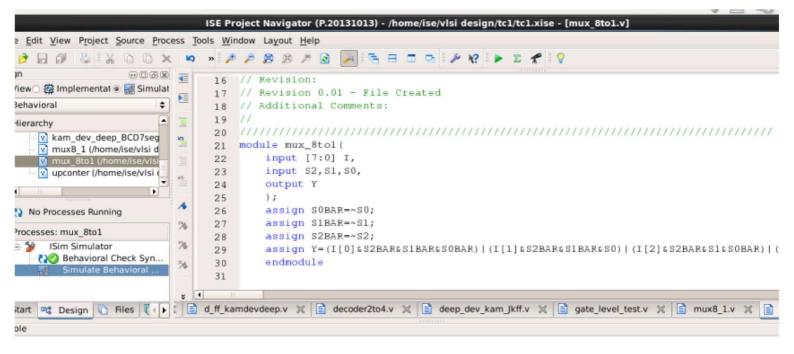
FULL SUBTRACTOR

```
roject Navigator (P.20131013) - /home/ise/vlsi design/tc1/tc1.xise - [Kam_dev_deepak_full_subtractor.v]
ess Tools Window Layout Help
 | Io » | P P B B P 3 | N 5 H II II II | P K? | P E A 9
 4
      14 // Dependencies:
      15 //
 M
      16 // Revision:
      17 // Revision 0.01 - File Created
 \equiv
      18 // Additional Comments:
 5
      19 //
         20
         module Kam_dev_deepak_full_subtractor(
      21
             input a,b,c,
      22
      23
             output diff,borrow
 A
      24
      25
             assign diff=(a^b^c);
 %
      26
             assign borrow=(~a&c)|(~a&b)|(b&c);
 %
      27
 *
      28
      29 endmodule
      30
 * 4
 Kam_dev_deepak_full_subtractor.v
                                                ×
```

FULL SUBTRACTOR



MUX 8*1



MUX 8*1

