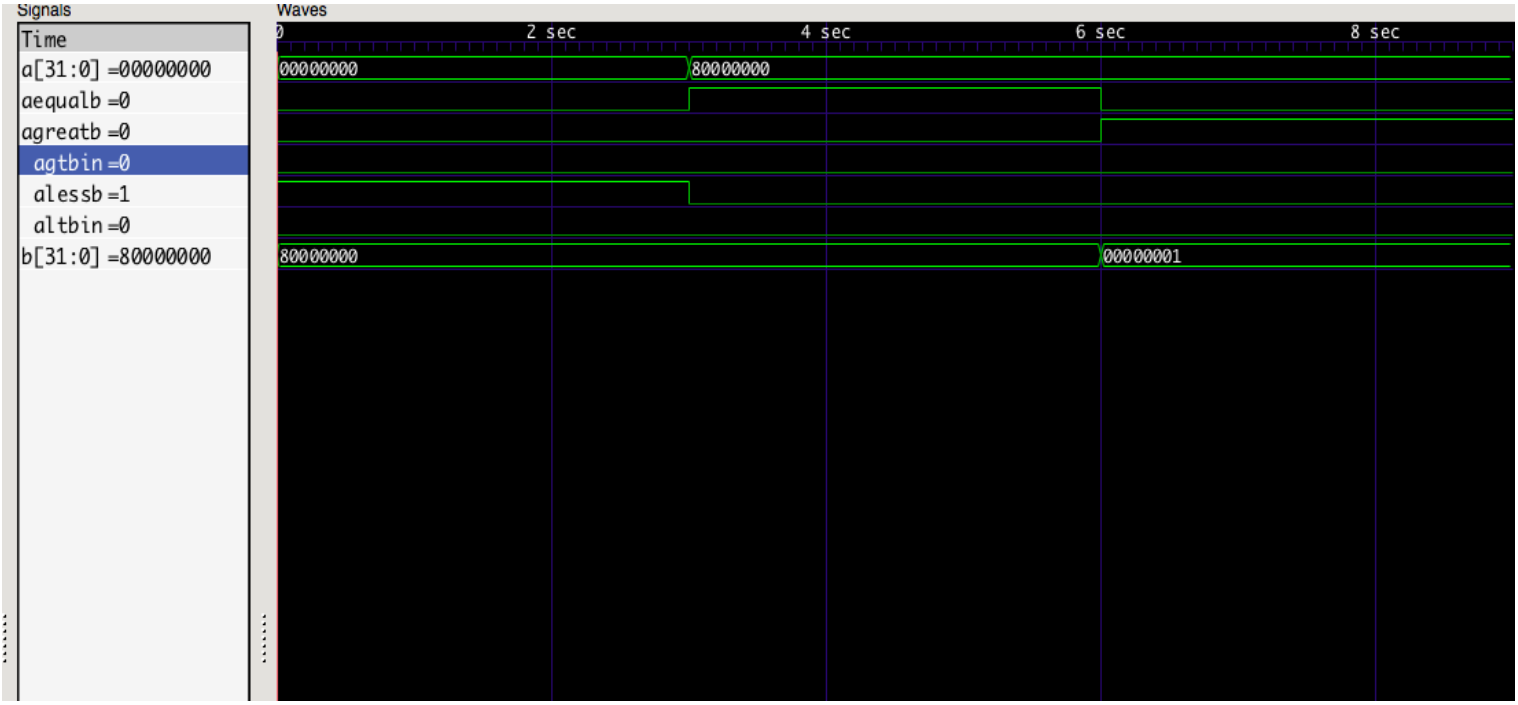


32 BIT COMPARATOR

first input : a <= 32'b00000000000000000000000000000000;
b <= 32'b10000000000000000000000000000000;

output:

a<b =>1
a==b =>0
a>b =>0

second input : a <= 32'b10000000000000000000000000000000;
b <= 32'b10000000000000000000000000000000;

output:

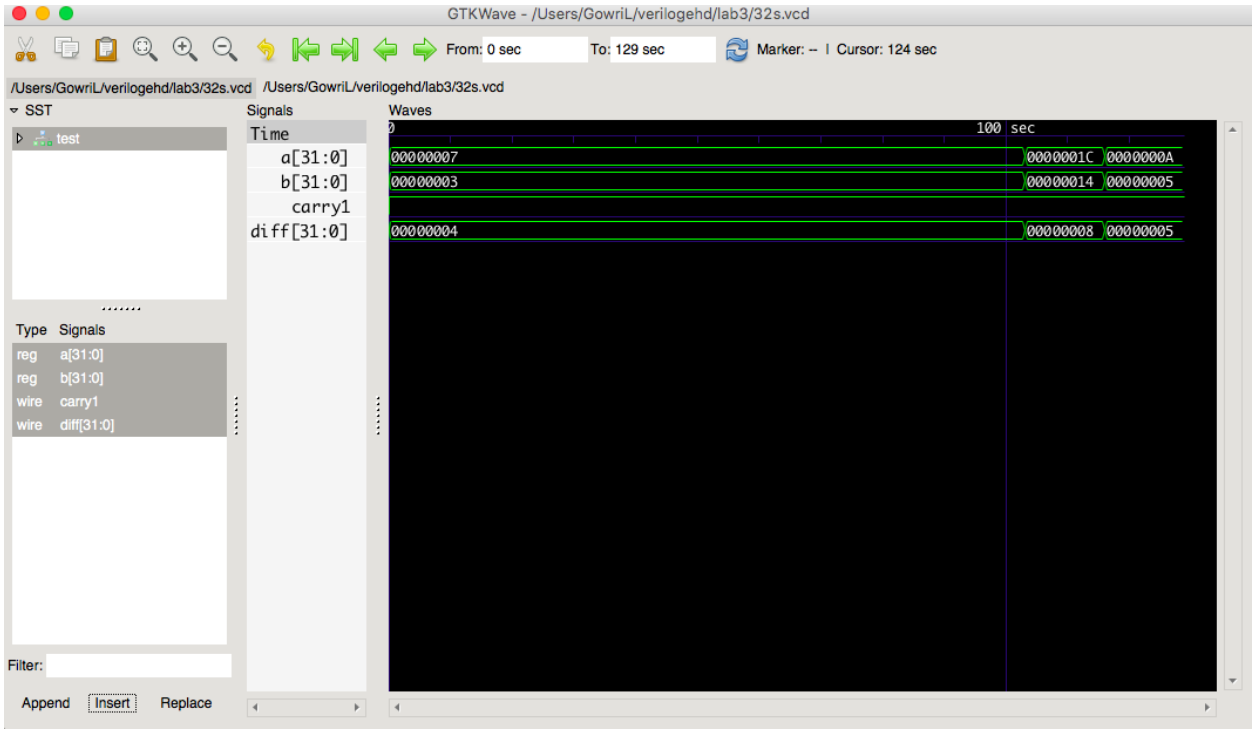
a<b =>0
a==b =>1
a>b =>0

third input: a <= 32'b10000000000000000000000000000000;
b <= 32'b00000000000000000000000000000001;

output:

a<b =>0
a==b =>0
a>b =>1

32 bit subtractor



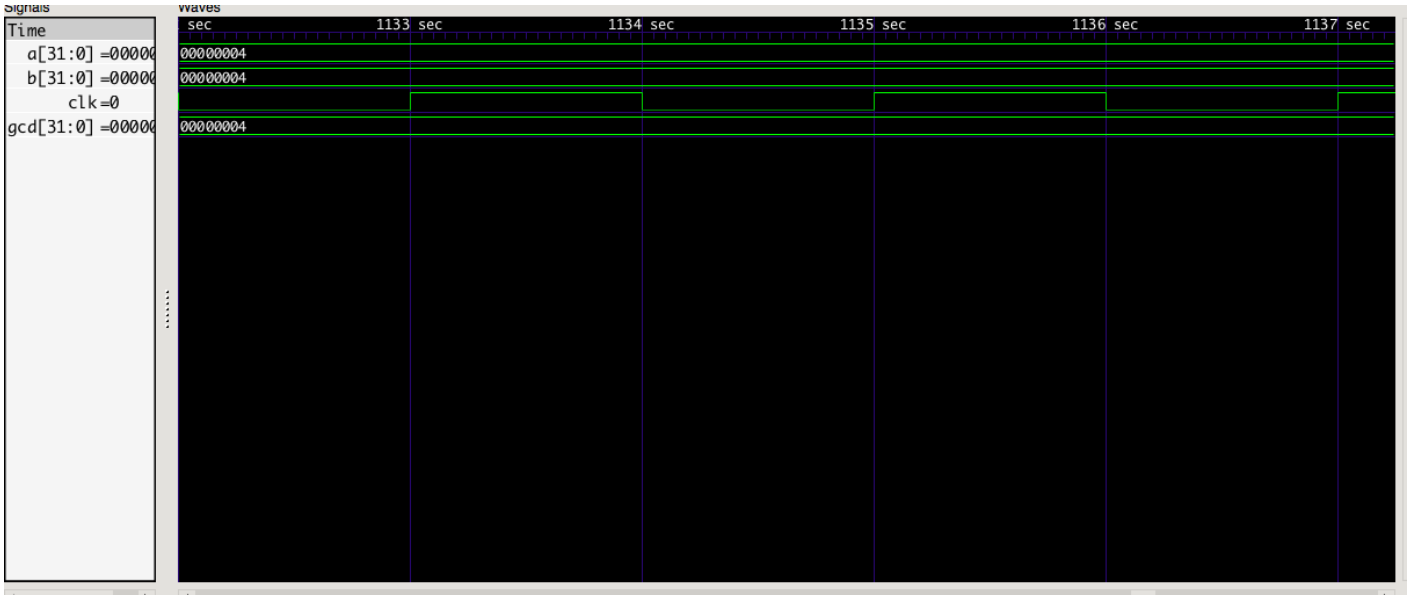
first input: a <= 32'b111;
b <= 32'b11;
output: diff: 32b'100

first input: a <= 32'b11100;
b <= 32'b10100;
output: diff = 32'b1000

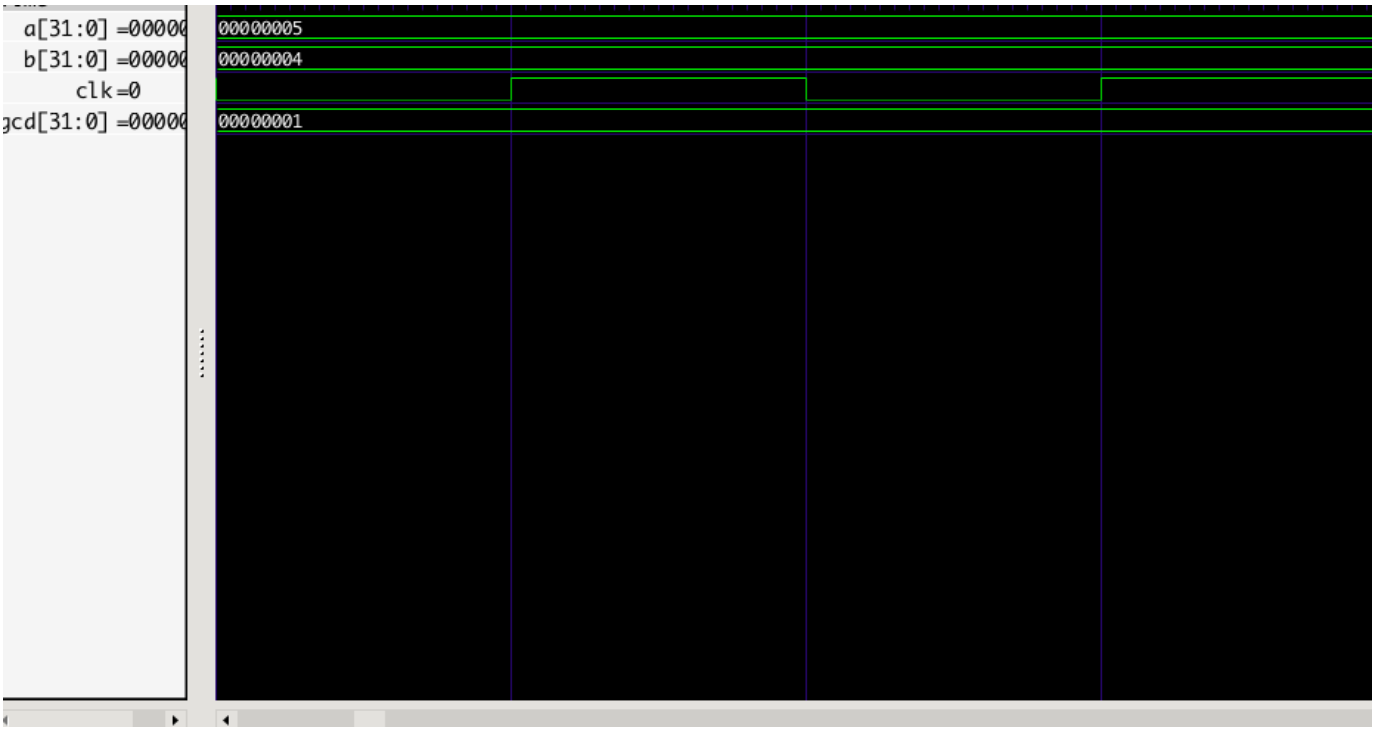
first input : a <= 32'b00000000000000000000000000001010;
b <= 32'b00000000000000000000000000000101;

output: diff=32'b100

GCD:



First input: a <= 32'b100;
b <= 32'b100;
Output: 32’b100



second input: a <=32'b101;
b <=32'b100;

output: 32’b1

third input : a <=32'b100;
b <=32'b100;

output: 32’b100