CS232 lab 5 Q2 Booth multiplier

The working of the Booth multiplier was given in the Exquestial Design Files provided to us and the architechture is based on that.

the, result will be axb where is and it are a four like

Archichture:

I we 3 procures and to build the booth multiplier.

→ if rst = '1', thun nut_state exts To 'o' and sum to "cocococo" The first process is sentitive to the clock and when

-> ulse if rst = 'o'

nunt state is set to "1", partial products are to calculate the partial products. if state = 'o' thus

next state as set to o' o bum of partial products in done and value is too ed in the sum' signal.

In the second process, 4 update state signal by anigning it value of In the third process, the result (output signal) is quies the value of

Sum to

re wareform below for the output.

