Name: Md. Ribat Ahmed

ID: 1931725042

Course: CSE332L

Section: 9



Answer to the Question No-1

We're given 64 registers where each register can stone 128-bit data.

We use decoder to Inaverse through all the registers & with the select bits of the decoder we do the traversing. So for us to traverse them all we need

 $2^n = 64 = 2^6$ $\Rightarrow n = 6$ high

So, the values of the RS, RT, RD will be 6 bits.

And as we're using 128-bit data width registers.

The value of n-bit ton ALV would be 128.

ID: 1931725042

Answer to the Question No-2

Designing a RF for an & bit ALV where RS, RT,

RD me 1 lit?

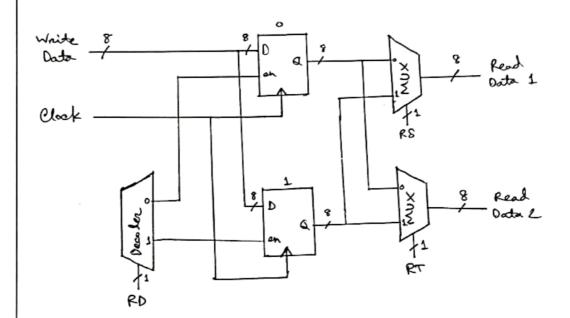


Figure: RF bon au 8-bit ALU where RS, RT, RD are 1-bit