

Hand-drawn schematic of a 4:16 decoder. The central box is labeled "4:16 decoder". On the left side, there are four inputs labeled A_3 , A_2 , A_1 , and A_0 . On the right side, there are sixteen outputs labeled Y_{15} , Y_{14} , Y_{13} , Y_{12} , Y_{11} , Y_{10} , Y_9 , Y_8 , Y_7 , Y_6 , Y_5 , Y_4 , Y_3 , Y_2 , Y_1 , and Y_0 . The outputs are arranged in a column, with Y_{15} at the top and Y_0 at the bottom.

[illegible]