

The circuit shown in Figure 1 will be analyzed.

- 1) Find the Boolean functions of the flip-flop inputs (D_0 , D_1 , D_2).
- 2) Find the Boolean functions of the output (Y).
- 3) Find the state equations for Q_0 , Q_1 , Q_2 . ($Q=D$, $Q(t+1)=D$)
- 4) Is this circuit a Mealy or Moore type machine?

