$$t_{H} = 20 \text{ ms}$$

 $t_{L} = 20 \text{ ms}$
 $T = 40 \text{ ms}$

$$t_{H} = 20 \text{ ms}$$

$$t_{L} = 20 \text{ ms}$$

$$T = 40 \text{ ms}$$

$$T = \frac{100 \text{ ms}}{40 \times 10^{-9}} = \frac{100 \text{ ms}}{40} = \frac{100 \text{ ms}}{40} = 25 \times 10^{6} \text{ Hz} = 25 \text{ MHz}$$

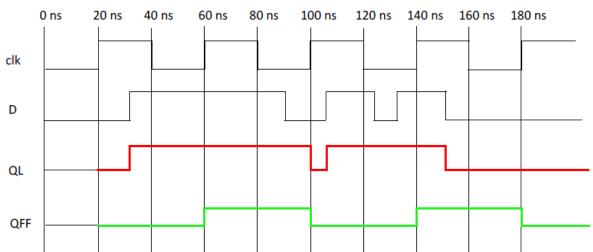


Fig. 1 – Functional behavior of a D latch and a positive-edge-triggered D flip-flop.



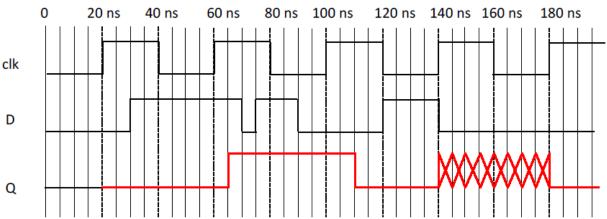


Fig. 3 – A timing diagram of a positive edge-triggered flip-flop to complete.



Fig. 4 – A circuit based on a D flip-flop and its timing diagram.

Valores do Clh
$$T = 60 \text{ ms}$$

$$T = 120 \text{ ms}$$

$$T = \frac{5000}{60} \approx 56,7 \text{ MHz}$$

$$T = \frac{9000}{120} \approx 8$$

$$T = \frac{1000}{120} \approx 8$$

Valores do Clh
$$T = 60 \text{ ms}$$

$$T = 3000 \approx 36,7 \text{ MHz}$$

$$T = \frac{5000}{120} \approx 8$$

$$H = 40 \text{ ms}$$

$$Valores do Simol Q
$$T = 320 \text{ ms}$$

$$Valores do Simol Q
$$T = 320 \text{ ms}$$

$$Valores do Simol Q
$$T = 320 \text{ ms}$$

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$$T = 320 \text{ ms}$$

$$Valores do Simol Q
$$T = 320 \text{ ms}$$

$$Valores do Simol Q
$$T = 320 \text{ ms}$$

$$T = 3000 \approx 66,7\%$$

$$T = 3000 \approx 50 \text{ MHz}$$

$$T = 3000 \approx 50 \text{ MHz}$$$$$$$$$$$$$$$$$$$$

O cincuito duplica o período do Clack.