

Blinker Frequency

STM32F466RE

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Default and Delayed Frequencies

$$f = \frac{N}{t} \cong 84,000,000 \frac{cycles}{second}$$

$$f' = \frac{N'}{t} = \frac{N/N_d}{t}$$

* f' is controllable, as opposed to f which is determined by hardware.

The natural frequency (f) is on the order of MHZ; we want to observe the blinking with natural vision, so the solution is to add cycle delays (N_d) to produce a new, smaller frequency (f').