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In a nutshell, PWM is a way of digitally encoding analog signal levels. Through the use of high-resolution counters, the duty cycle of a square wave is modulated to encode a specific analog signal level. The PWM signal is still digital because, at any given instant of time, the full DC supply is either fully on or fully off.

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PWM is a very effective method of controlling power digitally. Although many PWM circuits are built using different timing chips, there are also PWM outputs in microprocessor chips as well. The PWM capabilities built into CPUs in computers can be extremely helpful in controlling variable-speed fan motors or LEDs.

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