

Re: PWM the most efficient way

Source: <http://sci.tech-archive.net/Archive/sci.electronics.misc/2006-06/msg00143.html>

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Alright, searched the google for several hours and found some really useful assembler code for AVR, the page is caught by google:

<http://www.google.com/search?q=cache:S2jXt5C3IokJ:www.avrprojects.net/PWM.htm+avr+microcontroller+%22har>

I haven't tested the code yet but it seems to be easy to understand.. They use hardware PWM and change the pulse width from the usual program loop.

As I see it now it would be probably easiest to setup one AVR just to generate software PWM signals.. since these uC's are very fast (4MHz) and motors would need maximum 1-5kHz PWM, one would easily set up say 10-20 independant PWM "channels" on any AVR chip. By independant I mean each "channel" can have own frequency, pulse width and possibility to be changed at any time.

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