

Re: microcontroller programming -- how to begin

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- *From:* Ignoramus5457 <ignoramus5457@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Thu, 25 May 2006 20:49:50 GMT
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On Thu, 25 May 2006 13:35:06 -0700, xray <notreally@xxxxxxxxxxxxxxxxxxxxxx> wrote:

On Thu, 25 May 2006 18:38:53 GMT, Ignoramus5457
<ignoramus5457@xxxxxxxxxxxxxxxxxxxxxx> wrote:

I am not too worried that I have to use BASIC. How do people write these things in general? Do they have a main loop and a state machine?

What about timings, looks like this C280 does not have a built in timer. And yet sometimes I need to do things for a certain time (such as open gas valve before starting TIG welding), but they can be interrupted, by, say, releasing foot pedal.

Am I stuck with having to use a counter sensor and external oscillator?

Have you looked at the manual?

Yes, I am reading it.

It's an odd beastie. I never heard of ladder logic before, but seems to be a combinational logic on inputs that happens in realtime. Equivalent to stringing a bunch of switches in series/parallel strings.

Yes, seems to be similar to putting together a bunch of relays.

On its basic-language side it has OnTimer() which lets you set an interrupt period down to 20 mS. I would think this should be enough for your interval issues.

I think that you are right.

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I would write a big event loop and make a case statement based on my state (an enumeration).

You need to download their development environment to program the thing.

Did that already.

Doesn't seem like it has much memory, but hopefully enough for your welder needs. Has built-in AD and DA and PWM so that's helpful.

Yes, I think that it is suitable for me.

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