

# Re: AVR tiny13 ADC0 syntax problem

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*Source:* <http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2008-09/msg00327.html>

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- *From:* Martin Griffith <[mart\\_in\\_medina@xxxxxxxxx](mailto:mart_in_medina@xxxxxxxxx)>
  - *Date:* Sat, 13 Sep 2008 22:22:23 +0200
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On Sat, 13 Sep 2008 12:43:57 -0700 (PDT), in comp.arch.embedded linnix <[me@xxxxxxxxxxxxxxxxxxxxx](mailto:me@xxxxxxxxxxxxxxxxxxxxx)> wrote:

On Sep 13, 11:01 am, Martin Griffith <[mart\\_in\\_med...@xxxxxxxxx](mailto:mart_in_med...@xxxxxxxxx)> wrote:

On Sat, 13 Sep 2008 10:24:11 -0700 (PDT), in comp.arch.embedded linnix

<[m...@xxxxxxxxxxxxxxxxxxxxx](mailto:m...@xxxxxxxxxxxxxxxxxxxxx)> wrote:

On Sep 13, 7:55 am, Martin Griffith <[mart\\_in\\_med...@xxxxxxxxx](mailto:mart_in_med...@xxxxxxxxx)> wrote:

On Sat, 13 Sep 2008 07:47:52 -0700 (PDT), in comp.arch.embedded linnix

<[m...@xxxxxxxxxxxxxxxxxxxxx](mailto:m...@xxxxxxxxxxxxxxxxxxxxx)> wrote:

On Sep 13, 7:34 am, Martin Griffith <[mart\\_in\\_med...@xxxxxxxxx](mailto:mart_in_med...@xxxxxxxxx)> wrote:

The ADC0 is shared with the external reset pin, and I'm utterly confused by atmels documentation on how to change it

Re: AVR tiny13 ADC0 syntax problem

over from  
rst to  
ADC  
function.

I don't want  
to set the no  
external  
reset fuse

Why not? As long as you  
use high voltage  
programmer (12V to reset),  
you can still reprogram it.

I'm using  
GCC +  
studio4.  
Been to  
avrfreaks, I  
found  
nothing  
there.

Any hints,  
anyone?

martin

I don't have a HV programmer (yet)

Buy or build one. We will be using the reset pin for ADC or  
I/O as  
well. I know for sure that the core cannot block reset in  
software  
and low voltage ISP needs it to work. So, only HV prog. can  
work.

Re: AVR tiny13 ADC0 syntax problem

I've been reading the tiny13 datasheet for hours, and it keeps mentioning DIEOE,DIEOV etc to change the port function.

That's an internal signal derived from ADC port enable and DDRB5 direction. It will not override the reset signal.

I can't see how to set them in any registers, the compiler just flags errors when I try and use them.

My gut feeling is that setting the reset fuse wont help one little bit

The fuses are controlling the core hardware. I believe it is the first step for using alternate functions of pin 1.

martin

Thanks linnix, I'll disorganise a HV programmer, I just wish the whole thing was better documented, or even documented in the first place.

Alf...?

I really would have liked to get that ADC0 up and running by dawn

Frustratedly (I'm only trying to do a 555++) yours.. etc.etc

martin

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