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SAMD21/SAMR21 xplained Pro GPIO tutorial

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Author	Message

PhillyNJ

Level: Resident
Joined: Sat. Oct 11, 2014
Posts: 732 **View posts**

Posted by PhillyNJ: Sat. Mar 18, 2017 - 11:49 AM   **#1**

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I started putting together some tutorials on the SAMD21/SAMR21 xplained Pro boards. The tutorials cover a lot information from board/hardware specific configuring to how to navigate the ASF documentation. This tutorial covers using ASF and not using ASF to configure I/O. It is full of examples to illustrate the many possible ways to set a pins direction and output value. I am interested in some constructive feedback on the attached tutorial.

I admire programmers and engineers who can read the device's datasheet and completely understand how the device needs to be configured. I am not one of these people! I wrote the tutorial based on how I would like to see a tutorial written e.g. "dumbed down"! This tutorial is designed to provide a solid background on configuring GPIO on the SAMD21 or SAMR21.

Your thoughts and feedback are welcome.

Attachment(s):
PIN-IO-SAMD21-SAMR21_RevA.pdf

"When all else fails, read the directions"

Tags:
Tools, **Evaluation and Development Kits (ARM-related)**

Last Edited: Sat. Mar 18, 2017 - 11:57 AM

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Posted by js: Sat. Mar 18, 2017 - 08:49 PM

#2

Total votes: 0

So in the later examples do you simply add ASF to get the delay function? It doesn't seem to do anything else useful.

If so how about providing an example of an old fashioned delay function? yeah, yeah I know that's just wasting cycles, so maybe do one with a 😛 timer as well.

John Samperi

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js

Level: Moderator
Joined: Wed. Mar 28, 2001
Posts: 31389 **View posts**
Location: Sydney, Australia (Gum trees, Koalas and Kangaroos, No Edelweis, but plenty of Corona beer)

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Posted by PhillyNJ: Sun. Mar 19, 2017 - 12:20 AM

#3

Total votes: 0

js wrote:

So in the later examples do you simply add ASF to get the delay function? It doesn't seem to do anything else useful.

PhillyNJ

Level: Resident
Joined: Sat. Oct 11, 2014
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Just to help administrate the OUTTGL control registers (toggle).

js wrote:

If so how about providing an example of an old fashioned delay function? yeah, yeah I know that's just wasting cycles, so maybe do one with a timer as well.

Good idea. let me see what I can do. thanks for the feedback.

"When all else fails, read the directions"

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