

## Bela - Feature #1659 refactoring PRU code

2016-03-09 06:26 PM - Giulio Moro

<b>Status:</b>	New	<b>Start date:</b>	2016-03-09
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

### Description

- make channel count and sampling rate of ADC independent from DAC
- allow to do ADC only or DAC only
- allow to select digital I/O Fs: 22.05, 44.1, 88.2
- directly drive multiplexer (maybe using pins at the top of P8), leaving the 16 digital I/O available and not requiring ARM to write the binary counter.

### History

#### #1 - 2016-03-10 12:17 AM - Giulio Moro

- add option to disable GPIO
- do float conversion in the PRU. This currently eats up to 8% of CPU time. Alternatively, do it with NEON on ARM.