Bela - Feature #1659
refactoring PRU code

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

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

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.