

inst-bpm - Task #9658

Milestone # 9017 (Accepted): State Machine subsystem

Task # 9385 (New): State Machine subsystem test

Instrument bpm control commands and display their execution time in syslog

07/17/2015 10:43 AM - John Diamond

| | | | |
|---|--------------|------------------------|------------|
| Status: | New | Start date: | 07/17/2015 |
| Priority: | Normal | Due date: | |
| Assignee: | John Diamond | % Done: | 20% |
| Category: | bpm | Estimated time: | 4.00 hours |
| Target version: | | Spent time: | 4.50 hours |
| Description | | | |
| Figure out a way (RTAI libraries or timing board?) to instrument the execution time for control commands so we can determine if we're meeting real-time requirements. | | | |

History

#1 - 07/17/2015 02:01 PM - John Diamond

http://download.gna.org/rtai/documentation/kilauea/html/group__timer.html#rt_set_oneshot_mode

#2 - 07/20/2015 04:03 PM - John Diamond

- % Done changed from 0 to 20

Added syslog and rt_printk messages to display the execution time for the bpm ARM command and the adc250x12xs READOUT command.

Can't really explain why the ARM command takes 13.5ms to execute...

```
Jul 20 15:14:30 bbpmnts user.info BPMDCT: Digitizer pool armed, took 13512741 ns.
```