VME Intensity Monitor - Task #11520

Milestone # 11650 (Closed): Mar 2016 Release A - 201603A

Create new sum devices

01/27/2016 02:06 PM - John Diamond

Status:	Assigned	**Start date:**	02/13/2016
Priority:	Normal	**Due date:**	
Assignee:	John Diamond	**% Done:**	100%
Category:	Sums	**Estimated time:**	0.00 hour
Target version:		**Spent time:**	3.50 hours

Description

```
Recycler
·         R:SE0853
o    $E0 reset event, sample the same as R:SE3853
·         R:SE1853
o    $E1 reset event, sample the same as R:SE3853
·         R:SE2853
o    $E2 reset event, sample the same as R:SE3853
·         R:SE9853
o    $E9 reset event, sample the same as R:SE3853
Main Injector
·         I:S23852
o    $23 reset event, similar to I:19SUM3 but not dependent on $19s, probably sample each $28?
·         I:S21852
o    $21 reset event, same sampling as I:S23852
·         I:S2B852
o    $2B reset event, same sampling as I:S23852
·         I:S29852
o    $29 reset event, same sampling as I:S23852
·         I:S2E852
o    $2E reset event, same sampling as I:S23852
```

Subtasks:

Task # 11715: Refactor SumMgr to use EvtTrigTclkEventGenerator **Closed**

History

#1 - 02/03/2016 01:15 PM - John Diamond

- % Done changed from 0 to 50

Created the following ACNET devices for R:TOR853 sums on mi14tor:

- R:SE0853
- R:SE1853
- R:SE2853
- R:SE9853

Issued the following commands on mi14tor to create the sums:

```
mi14tor->vmeintSumCreate 1, 0, 0, 0xe0, 0xe6, 288, 0xe4, 5
value = 0 = 0x0
mi14tor->vmeintSumCreate 2, 0, 0, 0xe1, 0xe6, 288, 0xe4, 5
value = 0 = 0x0
mi14tor->vmeintSumCreate 3, 0, 0, 0xe2, 0xe6, 288, 0xe4, 5
value = 0 = 0x0
mi14tor->vmeintSumCreate 4, 0, 0, 0xe9, 0xe6, 288, 0xe4, 5
value = 0 = 0x0
```

I noticed that the trigger counts were not being initialized properly. Fixed this bug and committed it to Git but I didn't deploy yet because I didn't want to install new code on operational nodes yet.

Also, it turns out that SumMgr is still using PMCUCDTimingSystem. This will need to be changed to EvtTrigTclkEventGenerator to support the extra events needed on m10tor.

#2 - 02/05/2016 01:54 PM - John Diamond

- Parent task set to #11649

#3 - 02/28/2016 11:31 AM - John Diamond

- Parent task changed from #11649 to #11650