

VME Intensity Monitor - Task #11761

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

201602A Replace Vector of Monitors with Map.

02/18/2016 11:42 AM - Roger Tokarek

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|--|---------------|------------------------|-------------|
| Status: | Closed | Start date: | 02/18/2016 |
| Priority: | Normal | Due date: | |
| Assignee: | Roger Tokarek | % Done: | 100% |
| Category: | Hygiene | Estimated time: | 24.00 hours |
| Target version: | | Spent time: | 1.00 hour |
| Description | | | |
| <p>1. We currently iterate over a vector of monitors to associate a logical ID (SSDN Channel field) with its corresponding hardware ADC and Channel. Replacing the vector with a map container provides simplified, more readable code by removing iteration over the vector. The map key is either the Acnet device SSDN Channel field or a unique index if there is not an associated Acnet device.</p> <p>2. As part of this modification, the usage of the parameter name <code>ssdnCh</code> will also be modified throughout the code to become <code>intId</code>, an abbreviation of <code>intensityId</code>, where <code>intId</code> is a more generic, less specific, logical identifier of the ADC/Channel pair. The value <code>intId</code> must be unique and will correspond to an associated Acnet device SSDN Channel field if one is required.</p> | | | |
| Example | | | |
| <p><code>intId</code> ties the following calls to each other:</p> | | | |
| <pre>addMirrToroid(uint16_t adcId, uint16_t adcCh, uint16_t intId); addATRLatchDev(uint16_t latchId, uint16_t intId, ...); intensityread(uint16_t intId); std::map<uint16_t, IntMonitorDev*> _monitorTable; // key intId</pre> | | | |

History

#1 - 02/18/2016 03:17 PM - Roger Tokarek

There are approximately 32 VMEInt functions that access class IntMonitorDev via the vector `_monitors`. Re-estimating the time for this project from 4 hours to 24 - includes possible addition of a map replacement of a vector in DAQPool to extend and complement the changes in VMEInt.

#2 - 02/18/2016 03:18 PM - Roger Tokarek

- Estimated time changed from 4.00 h to 24.00 h

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

- Parent task changed from #11649 to #11650

#4 - 03/15/2016 12:18 PM - John Diamond

- Status changed from New to Assigned

- % Done changed from 0 to 100

#5 - 08/03/2016 10:38 AM - Roger Tokarek

- Status changed from Assigned to Resolved

#6 - 10/13/2016 02:29 PM - Elliott McCrory

- Status changed from Resolved to Closed