ds50daq - Feature #4354

Feature # 3956 (Closed): We should protect against all module failures at end run so that files get closed correctly

Avoid situations in which exceptional conditions in online monitoring module cause DAQ processes to crash [art-related]

07/17/2013 09:30 AM - Kurt Biery

Status:	New		**Start date:**	07/17/2013
Priority:	Normal		**Due date:**	08/16/2013
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description

This issue was originally part of Issue #3956, but that Issue has become a little muddled over time, so I'm creating this Issue expressly for dealing with the topic of handling exceptions. Of course, it will be useful to look at the notes in #3956.

Over time, in various discussions, we have learned that art currently supports the configuration of whether exceptions can be caught and reacted to **by exception type**. It would be more useful for artdaq/ds50daq, if this configurability were on a module-by-module basis.

Here are some notes on this topic from a 02-July discussion between Chris, Marc, and Kurt:

2) Chris suggested that "workers" could be changed to optionally swallow exceptions based on a configuration parameter. We talked through various types of exceptions, and we agreed that there will probably always need to be a catch-all case (since we can't foresee all exceptions that user code might throw). I made my usual request for module-based configurability (in addition to the exception-based configurability that already exists).
2.1) Possible action items
2.1.1) a quick solution might be to allow all non-art exceptions to be handled in the same way that we handle art exceptions. This would be configurable and would allow "next event" and "next module" options.
2.1.2) a medium-term solution might be to allow module-based configurability of handling exceptions and continuing