

LArSoft - Feature #8131

Support # 8103 (Closed): Update to art 1.13.01: update deprecated features

Investigate the new Timing replacements

03/19/2015 07:36 PM - Gianluca Petrillo

Status:	Closed	Start date:	03/19/2015
Priority:	Low	Due date:	
Assignee:	Gianluca Petrillo	% Done:	100%
Category:	Other	Estimated time:	4.00 hours
Target version:		Spent time:	3.00 hours
Experiment:	-	Co-Assignees:	
Description			
art 1.13 offers replacements for Timing module, that is considered <i>deprecated</i> .			
We need to investigate the replacement(s) and to adapt our systems and scripts to it (noticeably, the Continuous Integration execution time database).			

Associated revisions

Revision 5dac9945 - 08/11/2016 01:22 PM - Gianluca Petrillo

Removed CPU time tracking during event display (issue #8131).

Apart from exceptional needs, CPU timing on a interactive job makes little sense.

Revision 85277d93 - 08/16/2016 06:02 PM - Gianluca Petrillo

Adding configuration for resource tracking services

This is related to issue #8131 and #8132.

History

#1 - 03/24/2015 10:40 AM - Lynn Garren

- Subject changed from *Investigate the new TimeService replacements* to *Investigate the new Timing replacements*

- Status changed from *New* to *Accepted*

<https://cdcvns.fnal.gov/redmine/projects/art/wiki/TimeTracker>

#2 - 03/24/2015 11:45 AM - Gianluca Petrillo

My description above also contains a typo.

Just to reiterate, this is about Timing, the art service reporting how long modules take to run, and not TimeService, LArSoft's service providing information about when the event happened.

#3 - 08/11/2016 01:20 PM - Gianluca Petrillo

- Description updated

- Category set to *Other*

- Assignee set to *Gianluca Petrillo*

- Estimated time set to *4.00 h*

Fixed the typo in description when I figured out how.

#4 - 08/11/2016 06:39 PM - Gianluca Petrillo

- % Done changed from *0* to *80*

Branch feature/gp_Issue8103 has been updated for repositories *lardata*, *larevt*, *larsim*, *larreco*, *larana*, *lareventdisplay* and *larexamples*.

The update consists of three types of interventions on FHiCL files configuring Timing, SimpleMemoryCheck or MemoryPeakReporter modules:

1. configurations using service configuration bundles (e.g., `@table::argoneut_services`): the services mentioned above have been removed

2. configurations not using service configuration bundles: the service configuration bundle `standard_resourcetrackers` has been added to the service configuration
3. event display configuration: the service configuration has been removed, because in general this type of profiling information is not useful in interactive jobs

A new configuration file has been added in `lardata`: `lardata/Utilities/resourcetracking_services.fcl`, with standard configuration for `MemoryTracker` and `TimeTracker` services. This is written for the services as present in *art 2.1* and newer (it will fail with *art 2.0*).

The recommendation is that the experiments **add the tracking services in their service configuration bundles**, so that they are executed in *every job* apart from the interactive ones.
This is as simple as including `resourcetracking_services.fcl` and adding `@table::standard_resourcetrackers` in your central service configuration.
This is the reason why this resolution just removed the resource tracking services from the many configuration files in category 2.

Edit: added larexamples.

#5 - 08/11/2016 06:40 PM - Gianluca Petrillo

(branches will be pushed after LArSoft v06_03_00 is released)

#6 - 08/12/2016 01:07 PM - Gianluca Petrillo

Feature branches have been updated to LArSoft v06_03_00 and pushed (larexamples was added to the list above).
The test with these branches excluded `lariatsoft` and `dunetpc`, which are not available yet for v06_03_00. Previously, they were tested under v06_02_00.

#7 - 08/12/2016 01:08 PM - Gianluca Petrillo

- Status changed from Accepted to Resolved

- % Done changed from 80 to 100

#8 - 08/16/2016 06:12 PM - Gianluca Petrillo

It turns out that there is no reason to withhold `resourcetracking_services.fcl`. So it is now available in `develop` branch of `lardata` for anybody willing to use it.

#9 - 10/03/2016 10:15 AM - Gianluca Petrillo

- Status changed from Resolved to Closed