

art - Bug #24364

art v3_05_00 I/O performance problem: request for a patched release

04/30/2020 02:40 PM - Pavel Murat

Status:	Closed	Start date:	04/30/2020
Priority:	Normal	Due date:	
Assignee:	Kyle Knoepfel	% Done:	100%
Category:	Infrastructure	Estimated time:	0.00 hour
Target version:	3.05.01	Spent time:	6.00 hours
Occurs In:	3.05.00	Experiment:	Mu2e
Scope:	Internal	SSI Package:	art

Description

Dear art team,

Mu2e has recently identified a severe problem with art I/O performance, excited when an art job was reading multiple input files with highly pre-selected events in them.

Note, that this is a regular case for an analysis job.

For 50 input files of the same length and with approximately the same number of events in them, read sequentially, processing the of last file was taking x10 longer than processing of the first one. For 100 input files, the performance degradation was too severe to be measured.

Kyle - kudos to him - has already found and implemented a remedy.

On behalf of Mu2e I'd like to

- a) thank Kyle
- b) request a new release of art with the bug fix propagated into it

-- thanks, Pasha

which art

/cvmfs/mu2e.opensciencegrid.org/artexternals/art/v3_05_00/slf7.x86_64.e19.prof/bin/art

History

#1 - 04/30/2020 02:44 PM - Kyle Knoepfel

- Assignee set to Kyle Knoepfel
- Status changed from New to Assigned

#2 - 05/01/2020 01:58 PM - Kyle Knoepfel

- % Done changed from 0 to 100
- Status changed from Assigned to Resolved
- Category set to Infrastructure
- Occurs In 3.05.00 added

Resolved with commits:

- [art:e206eca](#)
- [art_root_io:9d13321](#)

#3 - 05/01/2020 02:02 PM - Kyle Knoepfel

- Target version set to 3.05.01

#4 - 05/05/2020 09:58 AM - Kyle Knoepfel

- *Status changed from Resolved to Closed*

The mu distribution with art 3.05.01 is now available on SciSoft: https://scisoft.fnal.gov/scisoft/bundles/mu/v3_05_01/mu-v3_05_01.html.

I will be working on release notes soon.