

RSBag - Bug #2558

Events with same timestamps are replayed with changed order

06/08/2016 01:19 PM - J. Wienke

Status:	In Progress	Start date:	06/08/2016
Priority:	Normal	Due date:	
Assignee:	J. Moringen	% Done:	20%
Category:	Replay	Estimated time:	0.00 hour
Target version:	rsb-0.18		
Description			
<p>In case multiple events have the exact same timestamp (e.g. due to the limited time resolution on windows), they should be sorted in addition by their receive timestamp to ensure that they are replayed in the exact sequence as generated. This is especially important across multiple channels, as channel definitions in tide differ from RSB semantics and therefore sequential guarantees available in RSB might be loosened in bag replay.</p>			

Associated revisions

Revision f4b2bc39 - 06/12/2016 03:23 PM - J. Moringen

Fixed handling of repeated timestamps in src/backend/tidelog/index.lisp

refs #2558

Repeated timestamps for entries within a channel should not lead to a warning or sorting of index entries. In fact, since index entries are not `stable-sort'ed, sorting can be harmful in such cases.

- src/backend/tidelog/index.lisp (header): updated copyright
(put-entry output-index integer integer integer): consider entries to be in order as long the timestamp of the entry under consideration is \geq ; changed from $>$
- test/backend/tidelog/file.lisp: new file; contains high-level tests for the tidelog backend; currently only test for entry order preservation in case of repeated timestamps
- rsbag-tidelog.asd (header): updated copyright
(system rsbag-tidelog-test): added file test/backend/tidelog/file.lisp

History

#1 - 06/12/2016 03:25 PM - J. Moringen

- Category set to Replay
- Status changed from New to In Progress
- Assignee set to J. Moringen
- Target version set to rsb-0.15
- % Done changed from 0 to 20

#2 - 06/12/2016 03:28 PM - J. Moringen

commit:rsbag-cl|f4b2bc39 is a partial fix for the specific case that adjacent events in a single channel are associated to the same timestamp.

#3 - 07/08/2016 01:44 PM - J. Moringen

- Target version changed from rsb-0.15 to rsb-0.16

#4 - 04/04/2017 05:18 PM - J. Moringen

- Target version changed from rsb-0.16 to rsb-0.17

#5 - 10/16/2017 09:23 PM - J. Moringen

- Target version changed from rsb-0.17 to rsb-0.18