RSBag - Feature #1481

Support changing timestamp used for indexing in bag-transform

04/30/2013 02:40 PM - J. Moringen

Status: Resolved Start date: 04/30/2013

Priority: Normal Due date:

Assignee: J. Moringen % Done: 100%
Category: Commandline Tools Estimated time: 0.00 hour

Target version: rsb-0.9

Description 135-0.

Related issues:

Related to RSBag - Tasks # 1480: Change default record ordering from create t... Resolved 04/29/2013

History

#1 - 05/31/2013 01:11 PM - J. Moringen

- Status changed from New to In Progress
- % Done changed from 0 to 50

bag-merge already has the --transform-timestamp option. I have to investigate whether anything needs to be done.

#2 - 07/19/2013 03:19 AM - J. Moringen

- Status changed from In Progress to Resolved
- % Done changed from 50 to 100

This already works.

Note that just running bag-merge does not perform any re-indexing; it is necessary to use the --transform-timestamp option for that. Here is transcript of a sessions demonstrating the capability:

1. Record a log file with default indexing (.i.e "send" timestamp, see #1480):

\$ bag-record -o foo.tide socket:

2013-07-19T03:01:49.518056+02:00 #<SYNCHRONIZED-CHANNEL "/:INT64" (2) (RSB-EVENT-0.9 INT64) {100C378923}>

In parallel: rsb-send 1 socket: && rsb-send 2 socket:

^C\$ bag-info foo.tide

File "foo.tide" Events : 2

Start : 2013-07-19T03:01:45.895464+02:00 End : 2013-07-19T03:01:46.639511+02:00

Duration: 0.744047d0 Channel "/:INT64"

Type : (RSB-EVENT-0.9 INT64)
Format : // Notification.proto
package rsb.protocol;

import "rsb/protocol/EventId.proto";

import "rsb/protoco...

Events: 2

Start : 2013-07-19T03:01:45.895464+02:00 # <- "send" timestamp of first event

End : 2013-07-19T03:01:46.639511+02:00 # <- "send" timestamp of second event

Duration: 0.744047d0

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```
Rate: 2.688002236417861d0
```

\$ bag-cat --style detailed foo.tide

Event

Scope :/

ld : 38E7910F-B0BE-56E3-8E2B-CF159DCF5096

Sequence-Number: 0

Origin : 2437CF05-B431-4FF8-89A8-FBC5F794AD83

Method: N/A

Timestamps

Create: 2013-07-19T03:01:45.861049+02:00

Send : 2013-07-19T03:01:45.895464+02:00 # <- same as "Start" above

Receive: 2013-07-19T03:01:45.996948+02:00

Deliver: 2013-07-19T03:01:46.000782+02:00 # <- appears as "Start" below

Payload (FIXNUM)

1

Event

Scope :/

ld : 7A3DCF45-1757-5C81-8094-0D077B7C4EF0

Sequence-Number: 0

Origin : BD2DE94E-D96D-439D-A050-80AEA0C5F274

Method: N/A

Timestamps

Create: 2013-07-19T03:01:46.605144+02:00

Send : 2013-07-19T03:01:46.639511+02:00 # <- same as "End" above

Receive: 2013-07-19T03:01:46.671568+02:00

Deliver: 2013-07-19T03:01:46.671591+02:00 # <- appears as "End" below

Payload (FIXNUM)

2

2. Transform the log file to index based on "deliver" timestamp

\$ bag-merge --transform-timestamp=:deliver -o bar.tide foo.tide

[...]

\$ bag-info bar.tide

File "bar.tide"

Events: 2

Start : 2013-07-19T03:01:46.000782+02:00 End : 2013-07-19T03:01:46.671591+02:00

Duration: 0.670809d0 Channel "/:INT64"

Type : (RSB-EVENT-0.9 INT64)

Format: // Notification.proto

package rsb.protocol;

import "rsb/protocol/EventId.proto";

import "rsb/protoco...

Events: 2

Start : 2013-07-19T03:01:46.000782+02:00 # <- "deliver" timestamp of first event

End : 2013-07-19T03:01:46.671591+02:00 # <- "deliver" timestamp of second event

Duration: 0.670809d0

Rate : 2.9814746075261365d0

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