LTTng-modules - Bug #169

Lttng Kernel Module: Timestamp offset invalid on a 32 bit OS

03/13/2012 04:36 PM - Matthew Khouzam

2.0 stable

Target version:

 Status:
 Resolved
 Start date:
 03/13/2012

 Priority:
 High
 Due date:

 Assignee:
 Mathieu Desnoyers
 % Done:
 0%

 Category:
 Estimated time:
 0.00 hour

```
Description
In the metadata of a kernel trace we have the following clock descriptor:
clock {
name = monotonic:
uuid = "ed4eb84f-b43c-4133-8db8-28203028f97b";
description = "Monotonic Clock";
freq = 1000000000; /* Frequency, in Hz /
/ clock value offset from Epoch is: offset * (1/freq) */
offset = 18445690674791632402;
The offset is too high, it should be
clock {
name = monotonic;
uuid = "ed4eb84f-b43c-4133-8db8-28203028f97b":
description = "Monotonic Clock";
freg = 1000000000; /* Frequency, in Hz /
/ clock value offset from Epoch is: offset * (1/freq) */
offset = 1330617403233586776:
Like in UST.
```

History

#1 - 03/15/2012 12:53 PM - Matthew Khouzam

Fixed in latest version.

#2 - 03/15/2012 01:25 PM - Mathieu Desnoyers

- Status changed from New to Resolved
- Assignee set to Mathieu Desnoyers
- Priority changed from Normal to High
- Target version set to 2.0 stable

fixed by:

commit 17ec046afa9b641b95951ca9594c3b7351d5e658 Author: Mathieu Desnoyers <<u>mathieu.desnoyers@efficios.com</u>> Date: Tue Mar 13 16:09:52 2012 -0400

Ensure that multiplication of clock offset is done on 64-bit

This is not a bug in UST per se, because we happen to force multiplication by a ULL number, but force cast to uint64_t anyway to ensure we don't trigger this overflow if the constant ever happen to change.

Signed-off-by: Mathieu Desnoyers < mathieu.desnoyers@efficios.com>

10/20/2020 1/1