

LTTng-UST - Bug #1065

Bug # 1053 (Resolved): lttng-ust doesn't build on Ubuntu 12.04

Upgrade failure?

10/04/2016 03:22 PM - Daniel U. Thibault

| | | | |
|------------------------|-------------------|------------------------|------------|
| Status: | Resolved | Start date: | 10/04/2016 |
| Priority: | Normal | Due date: | |
| Assignee: | Mathieu Desnoyers | % Done: | 0% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | | |

Description

Ubuntu 12.04.5 LTS precise (64-bit) running 3.9.3 kernel

While upgrading from lttng-ust-2.3.0 to lttng-ust-2.9.0-pre-59-f4a90c3, after also upgrading lttng-modules (lttng-modules-2.7.0-stable to lttng-modules-2.9.0-pre-17-152fe7f) and userspace-rcu (userspace-rcu-0.8.0 to userspace-rcu-0.10-pre-2-d8a4979), the lttng-ust make fails with:

```
...
CC      lttng-context-perf-counters.lo
lttng-context-perf-counters.c: In function 'arch_read_perf_counter':
lttng-context-perf-counters.c:127:7: error: 'struct perf_event_mmap_page' has no member named 'cap_user_rdpmc'
lttng-context-perf-counters.c:132:22: error: 'struct perf_event_mmap_page' has no member named 'pmc_width'
lttng-context-perf-counters.c:133:22: error: 'struct perf_event_mmap_page' has no member named 'pmc_width'
lttng-context-perf-counters.c: In function 'arch_perf_keep_fd':
lttng-context-perf-counters.c:152:12: error: 'struct perf_event_mmap_page' has no member named 'cap_user_rdpmc'
lttng-context-perf-counters.c:153:1: warning: control reaches end of non-void function [-Wreturn-type]
make[2]: * [lttng-context-perf-counters.lo] Erreur 1
make[2]: quittant le répertoire « /usr/src/lttng-ust-2.9.0-pre-59-f4a90c3/liblttng-ust »
make[1]: [all-recursive] Erreur 1
make[1]: quittant le répertoire « /usr/src/lttng-ust-2.9.0-pre-59-f4a90c3 »
make: ** [all] Erreur 2
```

That same set (lttng-modules-2.9.0-pre-17-152fe7f, userspace-rcu-0.10-pre-2-d8a4979, lttng-ust-2.9.0-pre-59-f4a90c3) compiled just fine on another machine.

This may be an artefact of the upgrade, so I'll do a complete uninstall then try again.

History

#1 - 10/04/2016 03:28 PM - Mathieu Desnoyers

- Status changed from New to Feedback

- Assignee set to Mathieu Desnoyers

This has been fixed upstream already. Try fetching the latest lttng-ust master.

This commit should help:

```
commit 77d7fa989f79f3c2cb14d26576cbbb54b0637594
Author: Mathieu Desnoyers <mathieu.desnoyers@efficios.com>
Date: Thu Aug 18 14:21:46 2016 -0400
```

Fix: perf counters build against kernel headers < 3.12

Copy Linux kernel perf_event.h installed headers into lttng-ust to know the recent ABI layout, and use the bit description detailed in the following Linux kernel commit:

<https://github.com/torvalds/linux/commit/fa7315871046b9a4c48627905691dbde57e51033>

to check whether the kernel supports rdpmc.

Fall-back on the perf read system call for kernels prior to 3.12, because older kernels have an ABI bug where a union was used for both cap_usr_time and cap_usr_rdpmc.

Ensure setup_perf set the pc pointer value before checking whether we need to the file descriptor open or not.

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

#2 - 10/04/2016 03:48 PM - Daniel U. Thibault

I got the same error with a clean rebuild. But, as you say, this was a known problem so I'll just change commits. (This bug should be closed as a duplicate of whatever brought 77d7fa9 about, I guess?)

#3 - 10/04/2016 03:52 PM - Mathieu Desnoyers

- Status changed from *Feedback* to *Resolved*

- Parent task set to #1053