

LT'ng: Status Update



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What happened during 2013?



Releases

- 3 minor releases (2.2, 2.3, 2.4)
- +40 maintenance releases
- 17 contributors with ~1410 commits
- Lines of code
 - lttng-ust (+12991, -8146)
 - babeltrace (+14208, -4456)
 - lttng-modules (+17258, -8043)
 - userspace-rcu (+20452, -14684)
 - lttng-tools (+60243, -23270)

LTTng stable 2.1 - Features

- LTTng 2.1 Basse Messe (December 2012)
 - Network Streaming (TCP)
 - Session daemon health check
 - Event field filtering (LTTng-UST)
 - ARM, MIPS system call tracing (LTTng modules)

LTTng stable 2.2 - Features

- LTTng 2.2 Cuda (June 2013)
 - Per user ID buffers (LTTng-UST)
 - Buffers used by default
 - On disk file rotation (maximum stream file size)
 - C, --tracefile-size SIZE
 - W, --tracefile-count COUNT

Example -->

```
channel0_0
channel0_1
...
```

LTTng stable 2.3 - Features

- LTTng 2.3 Dominus Vobiscum (September 2013)
 - Flight recorder tracing
 - Stop and non-stop snapshots
 - Core dump handler integration
 - LTTng Tools extras/

→ `lttng snapshot -h`

LTTng stable 2.4 - Features

- LTTng 2.4 Époque Opaque (upcoming)
 - Java Util Logging (JUL) tracing
 - -j/--jul domain
 - Live streaming
 - Analysis of live traces
 - Consumer and relay daemon health check
 - Packet index generated by consumer daemon
 - Faster load of large traces in viewers afterward



Babeltrace

- Babeltrace 1.0 (initial release, October 2012)
- Babeltrace 1.1 (API namespacing fix, March 2013)
- Babeltrace 1.2 (upcoming)
 - Common Trace Format (CTF) Writer API
 - Python bindings
 - Live trace stream read support
 - Connect to LTTng relay daemon

LTTng Project Roadmap (1/2)

- Save/restore trace session configuration to/from files
 - System configuration (/etc/lttng.conf)
 - Trace configuration (mysession.lttng)
- Support Perf PMU counters from LTTng-UST
- Dynamic instrumentation of user-space
- Hardware tracing (ARM, Freescale, Intel, ...)
- Triggers and aggregation in LTTng-UST bytecode interpreter



LTTng Project Roadmap (2/2)

- LTTng modules bytecode interpreter
 - Kernel event filtering
- Per PID tracing
 - Finally! “lttng trace CMD” :)
- CTF works
 - Compression, Hardening, Format strings
- Python Logger support
- Log4j support



Questions ?



<https://ltnng.org>



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[@ltnng_project](https://twitter.com/ltnng_project)