



## LTTng Status Update

# Recent features

## ✓ 2.1 (Basse Messe)



Network streaming over TCP,

- Introduce lttng-relayd, receive traces from remote consumers.



Filtering before data collection,

- C-like syntax, bytecode interpreter.
- UST only for the moment.



Session daemon health monitoring API.

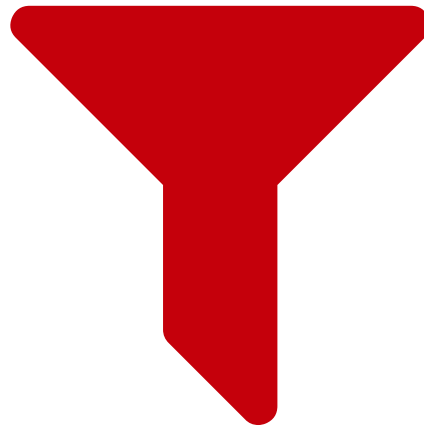
# Network streaming over TCP

```
test4@thinkos: ~  
File Edit View Search Terminal Help  
test4@thinkos:~$ lttng-relayd
```

```
compudj@squeeze-i386: ~  
File Edit View Search Terminal Help  
root@squeeze-i386:~# lttng create -U net://thinkos  
Session auto-20120827-141834 created.  
Traces will be written in net://thinkos  
root@squeeze-i386:~# lttng enable-event -k -a  
All kernel events are enabled in channel channel0  
root@squeeze-i386:~# lttng start  
Tracing started for session auto-20120827-141834  
root@squeeze-i386:~# lttng destroy  
Session auto-20120827-141834 destroyed  
root@squeeze-i386:~#
```

```
test4@thinkos: ~/lttng-  
File Edit View Search Terminal Help  
test4@thinkos:~/lttng-traces/squeeze-i386$ find .  
.  
./auto-20120827-141834  
./auto-20120827-141834/kernel  
./auto-20120827-141834/kernel/metadata  
./auto-20120827-141834/kernel/channel0_1  
./auto-20120827-141834/kernel/channel0_0  
test4@thinkos:~/lttng-traces/squeeze-i386$
```

# Filtering demo



# Recent features (cont.)

## ✓ 2.2 (Cuda, Currently in RC)

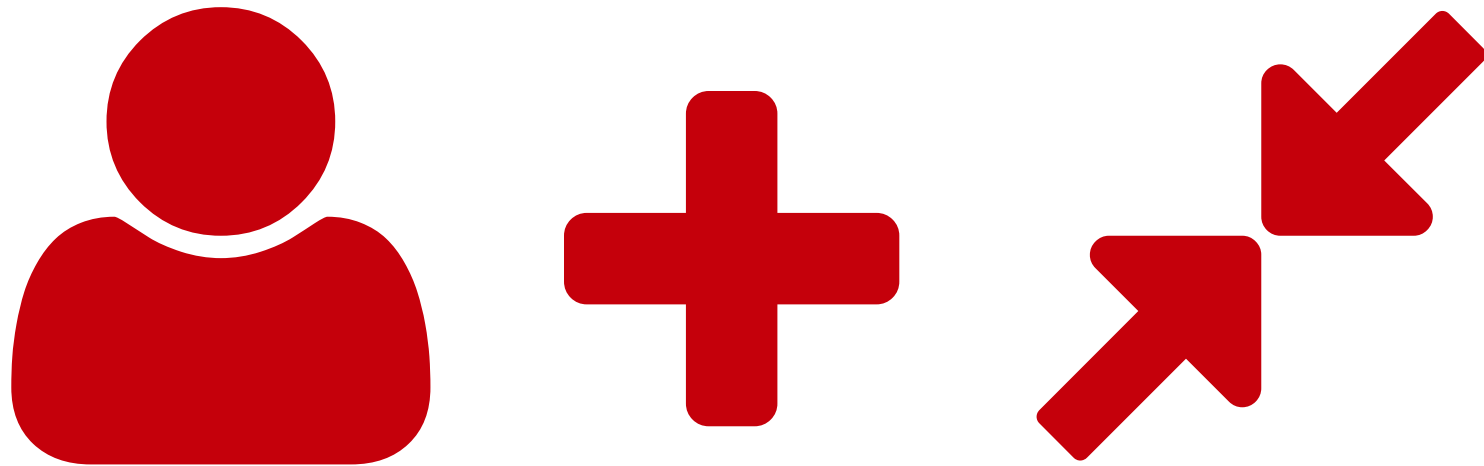
 Per-uid buffers in UST,

 Context filtering,

- '\$ctx.procname == "demo\*"',
- '\$ctx.vpid > 9000'.

 Trace file size limits,




# Global buffers & tracefile limits demo



# Future work






# Future work

-  Flight recorder mode tracing (2.3),
-  Trace data extracted on core dump (2.3),
-  Java tracing.



# Future work (cont.)

-  Tracer triggers actions on specific events & filters
-  Compressed, encrypted streaming and storage,
-  LTTng accepted in Google Summer of Code.
  - Dynamic instrumentation support in UST,
  - Android port.

# Questions ?



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