Shed Lights into Your Web Applications

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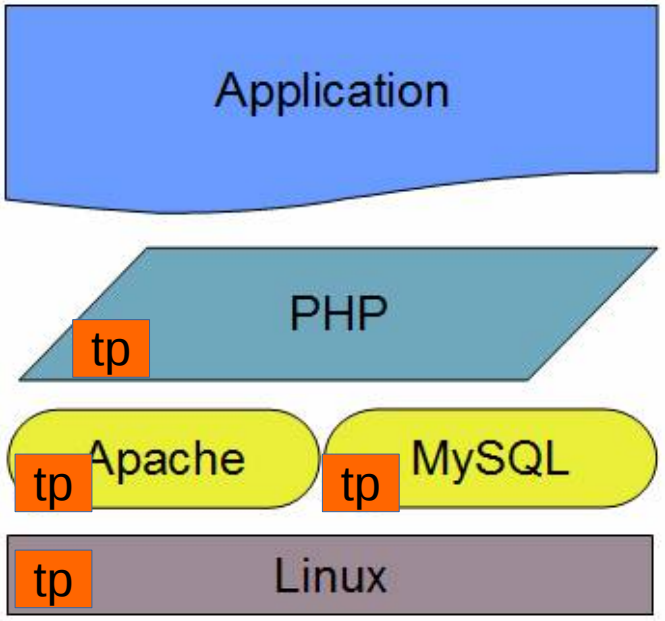
Tracing Summit 2017
Prague, Czech

Motivations

- **Challenges: root cause analysis of web applications performance problems**
  - Several components and layers are involved
    - Web server problem?
    - Code problem?
    - Bad database design? No table indexes?
    - System resource limitation?
  - Various debugging tools
  - Unified way to analyse them
    - Trace-based approach
    - LAMP stack
      - MEAN stack

Userspace tracing

- **You can trace your application**
  - tracepoints
    - LTTng-UST
    - FTrace

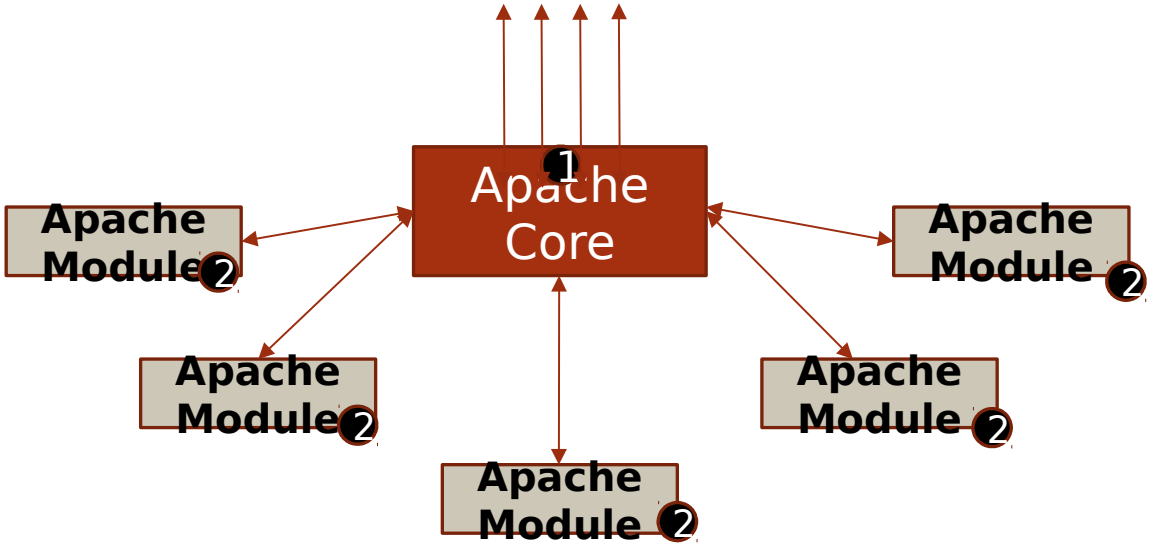



```
void function(void)
{
     int i = 0;
     long vals[3] = { 0x42, 0xCC, 0xC001CAFE };
     float flt = M_PI;

     [...]
     tracepoint(ust_tests_hello,
                tptest,
                i,
                &vals,
                flt);
     [...]
}
```

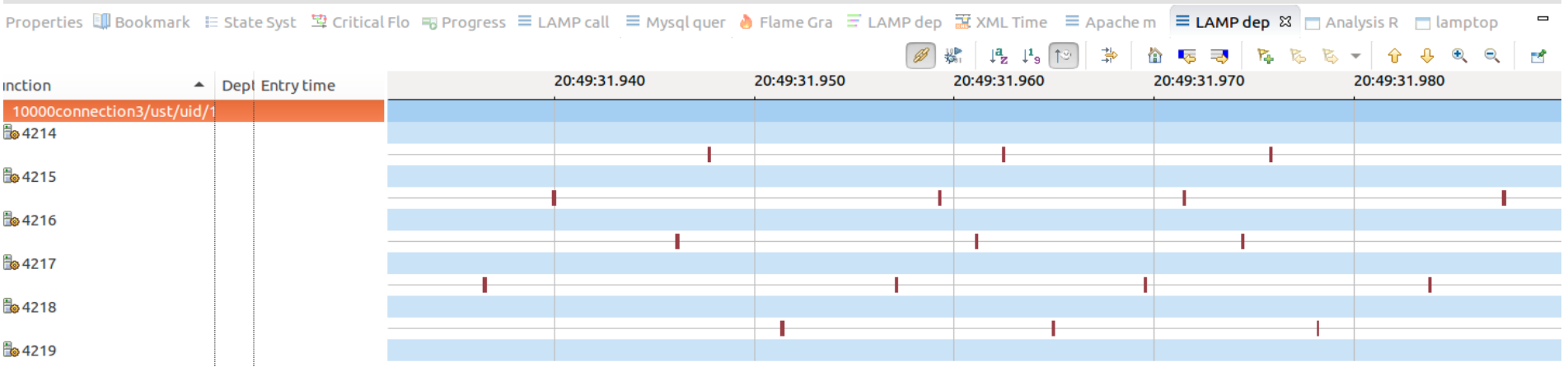
1- Apache

- **Apache LTTng module:**
  - **Hooks LTTng probes into the Apache web server.**
  - **These probes extract runtime information about the web requests and the apache itself**
    - **Web requests**
    - **Apache internals**



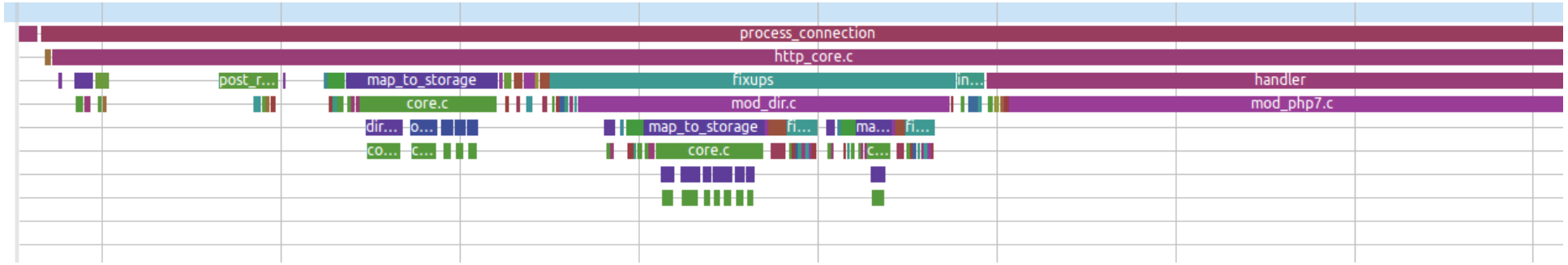
Web Requests Tracing

Timestamp	Channel	CPU	Event type	Contents
<srch>	<srch>	<srch>	<srch>	<srch>
20:49:53.786 561 345	ss_3	3	ust_apache:close_connection	connection_id=16, context._vtid=4236
20:49:53.786 584 375	ss_3	3	ust_apache:suspend_connection	connection_id=16, context._vtid=4236
20:49:53.786 592 518	ss_6	6	ust_apache:accept_connection	connection_id=20, client_ip=132.207.72.9, client_hostname=(null), local_ip=132.207.72.37, local_hostname=(nu
20:49:53.786 596 784	ss_3	3	ust_apache:accept_connection	connection_id=16, client_ip=132.207.72.9, client_hostname=(null), local_ip=132.207.72.37, local_hostname=(nu
20:49:53.786 630 594	ss_3	3	ust_apache:request_entry	connection_id=16, client_ip=132.207.72.9, method=GET, uri=/drupal, protocol=HTTP/1.0, request_info= reques
20:49:53.786 640 316	ss_6	6	ust_apache:request_entry	connection_id=20, client_ip=132.207.72.9, method=GET, uri=/drupal, protocol=HTTP/1.0, request_info= reques
20:49:53.786 724 371	ss_3	3	ust_apache:request_exit	connection_id=16, status=301, context._vtid=4236
20:49:53.786 749 922	ss_6	6	ust_apache:request_exit	connection_id=20, status=301, context._vtid=4244
20:49:53.786 751 414	ss_3	3	ust_apache:close_connection	connection_id=16, context._vtid=4236
20:49:53.786 763 635	ss_3	3	ust_apache:suspend_connection	connection_id=16, context._vtid=4236
20:49:53.786 777 199	ss_3	3	ust_apache:accept_connection	connection_id=16, client_ip=132.207.72.9, client_hostname=(null), local_ip=132.207.72.37, local_hostname=(nu
20:49:53.786 781 806	ss_6	6	ust_apache:close_connection	connection_id=20, context._vtid=4244
20:49:53.786 798 980	ss_6	6	ust_apache:suspend_connection	connection_id=20, context._vtid=4244
20:49:53.786 809 775	ss_3	3	ust_apache:request_entry	connection_id=16, client_ip=132.207.72.9, method=GET, uri=/drupal, protocol=HTTP/1.0, request_info= reques
20:49:53.786 907 271	ss_3	3	ust_apache:request_exit	connection_id=16, status=301, context._vtid=4236
20:49:53.786 933 238	ss_3	3	ust_apache:close_connection	connection_id=16, context._vtid=4236
20:49:53.786 947 884	ss_3	3	ust_apache:suspend_connection	connection_id=16, context._vtid=4236
20:49:53.789 370 776	ss_3	3	ust_apache:accept_connection	connection_id=4, client_ip=132.207.72.9, client_hostname=(null), local_ip=132.207.72.37, local_hostname=(null
20:49:53.789 408 718	ss_3	3	ust_apache:request_entry	connection_id=4, client_ip=132.207.72.9, method=GET, uri=/drupal, protocol=HTTP/1.0, request_info= request:
20:49:53.789 502 508	ss_3	3	ust_apache:request_exit	connection_id=4, status=301, context._vtid=4218
20:49:53.789 528 073	ss_3	3	ust_apache:close_connection	connection_id=4, context._vtid=4218



Apache Modules Tracing

Timestamp	Channel	CPU	Event type	Contents
<srch>	<srch>	<srch>	ust_apache:apache_module	<srch>
11:12:07.494 274 785	channel0_3	3	ust_php:request_exit	path=/usr/local/apache2/htdocs/drupal/index.php, uri=/drupal/index.php, m
11:12:07.494 278 193	channel0_3	3	ust_apache:apache_module_complete	name=handler, src=mod_php7.c, result=0
11:12:07.494 278 607	channel0_3	3	ust_apache:apache_module_exit	name=handler, result=0
11:12:07.494 285 929	channel0_3	3	ust_apache:apache_module_complete	name=process_connection, src=http_core.c, result=0
11:12:07.494 286 217	channel0_3	3	ust_apache:apache_module_exit	name=process_connection, result=0
11:12:07.494 287 452	channel0_3	3	ust_apache:apache_module_entry	name=protocol_get
11:12:07.494 287 781	channel0_3	3	ust_apache:apache_module_exit	name=protocol_get, result=0
11:12:07.494 291 250	channel0_3	3	ust_apache:apache_module_entry	name=protocol_get
11:12:07.494 291 447	channel0_3	3	ust_apache:apache_module_exit	name=protocol_get, result=0
11:12:07.494 291 727	channel0_3	3	ust_apache:apache_module_entry	name=log_transaction
11:12:07.494 292 316	channel0_3	3	ust_apache:request_exit	id=0, status=200
11:12:07.494 292 703	channel0_3	3	ust_apache:apache_module_invoke	name=log_transaction, src=mod_log_config.c
11:12:07.494 312 568	channel0_3	3	ust_apache:apache_module_complete	name=log_transaction, src=mod_log_config.c, result=0
11:12:07.494 312 929	channel0_3	3	ust_apache:apache_module_exit	name=log_transaction, result=0
11:12:07.494 320 420	channel0_3	3	ust_apache:apache_module_entry	name=suspend_connection
11:12:07.494 320 695	channel0_3	3	ust_apache:apache_module_exit	name=suspend_connection, result=0
11:12:07.496 537 029	channel0_3	3	ust_apache:apache_module_entry	name=resume_connection
11:12:07.496 537 342	channel0_3	3	ust_apache:apache_module_exit	name=resume_connection, result=0
11:12:07.496 537 627	channel0_3	3	ust_apache:apache_module_entry	name=process_connection
11:12:07.496 538 076	channel0_3	3	ust_apache:apache_module_invoke	name=process_connection, src=mod_reqtimeout.c
11:12:07.496 538 598	channel0_3	3	ust_apache:apache_module_complete	name=process_connection, src=mod_reqtimeout.c, result=-1
11:12:07.496 538 849	channel0_3	3	ust_apache:apache_module_invoke	name=process_connection, src=http_core.c
11:12:07.496 539 461	channel0_3	3	ust_apache:apache_module_entry	name=protocol_get
11:12:07.496 539 721	channel0_3	3	ust_apache:apache_module_exit	name=protocol_get, result=0
11:12:07.496 541 165	channel0_3	3	ust_apache:apache_module_entry	name=create_request
11:12:07.496 541 497	channel0_3	3	ust_apache:apache_module_invoke	name=create_request, src=core.c
11:12:07.496 541 942	channel0_3	3	ust_apache:apache_module_complete	name=create_request, src=core.c, result=0



2- PHP

- **LTTng probes in PHP**
  - **Provide detailed information about the PHP requests**
- **Monitor the entire PHP script execution:**
  - **13 tracepoints**
    - **Start/close a request**
    - **Function calls**
    - **Line executions**
    - **db connections**
    - **errors/exceptions**
    - **New PHP function: trace_print**
  - **arguments**
    - **request info, function name, file name, class name, line number, etc.**
- **Trace Compass views:**
  - **CallStack, Flame Graph, Request lists/response time distribution**

Tracepoints

Event	Description
request_entry	Fires when a request starts.
request_exit	Fires when a request exits.
compile_file_entry	Fires when a file compilation starts.
compile_file_exit	Fires when a file compilation ends.
function_entry	Fires when the PHP engine calls a function/method.
function_exit	Fires when the PHP engine returns from a function/method.
execute_entry	Fires when a line code is to be executed.
execute_exit	Fires after execution of a line code.
php_error_entry	Fires just before logging a PHP error
php_error_exit	Fires just after logging a PHP error
php_exception_thrown_entry	Fires just before logging a thrown PHP exception
php_exception_thrown_exit	Fires just after logging a thrown PHP exception
trace_print	A **PHP function** that you can call from your script to output a string in the trace

LTTng PHP exetnsion

Installation

You can build and install the LTTng extension from source which is straightforward:

```
git clone https://github.com/naser/LTTng-php-tracing-module.git
cd LTTng-php-tracing-module
phpize

/* Before configuration, make sure you have LTTng 2.X installed in your machine. For installation manual

./configure
make
sudo make install
```

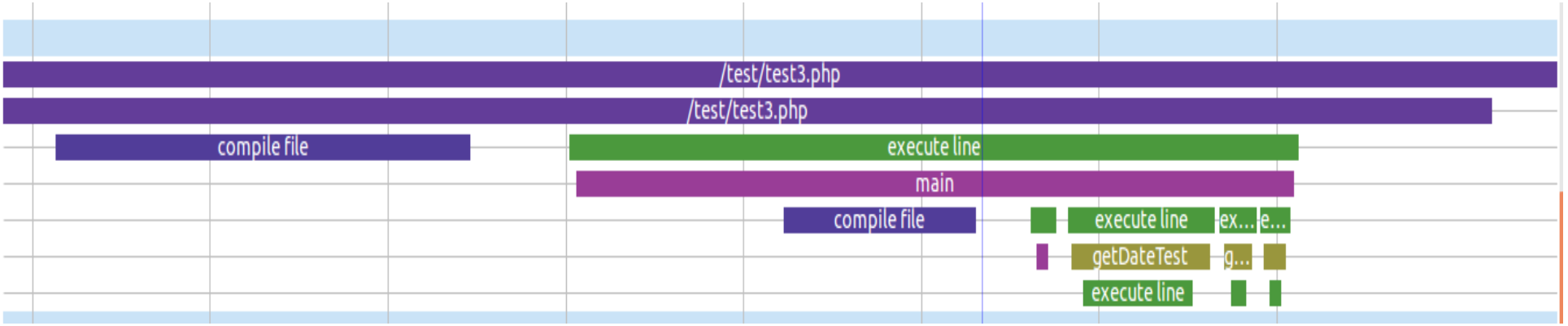
Example

```
1  Hello
2  <p>Welcome!</p>
3  Today's date is:
4
5  <?php
6  require_once('include.php');
7  getDateTest();
8  getDateTest();
9  getDateTest();
10
11 ?>
```

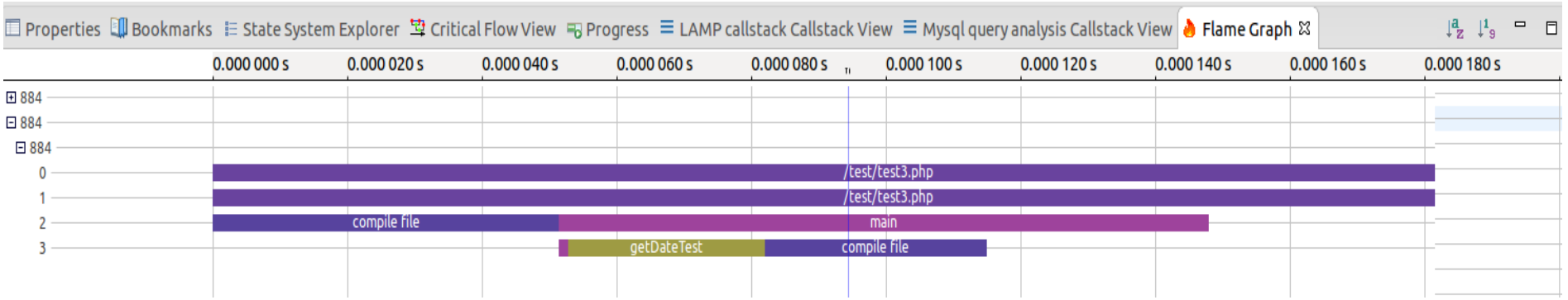
/usr/local/apache2/htdocs/test/test3.php [FORMA

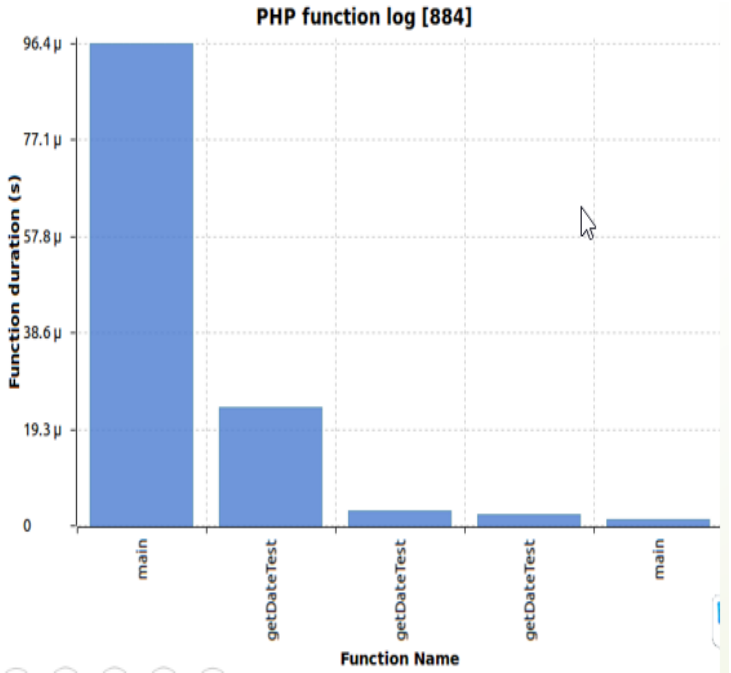
```
1  <?php
2
3  function getDateTest(){
4    echo date('m/d/Y') . '.1';
5  }
6
7  ?>
```

/usr/local/apache2/htdocs/test/include.php [FOR



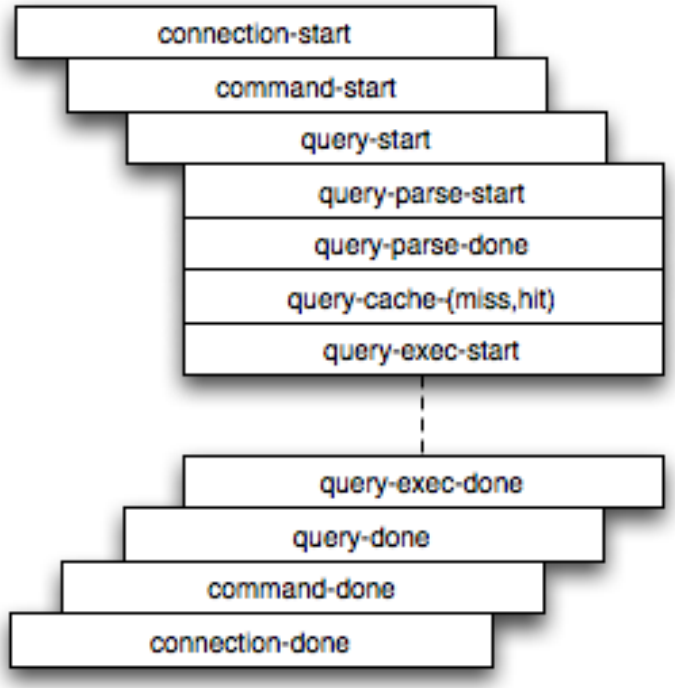
Example (cntd)





3- MySQL/MariaDB

- **LTTng probes in MySQL/MariaDB**
  - Provide information about query executions
  - 60 tracepoints in 200 different locations
    - We hook to the existing probes.
  - Monitor the full query execution process
    - DB connections
    - Query execution
      - Query type (select, update, insert, etc.)
      - Query parsing
      - Row-level operations in storage engines
      - Table R/W locks
      - File sorts
    - Cache miss, hit
    - Network I/O
    - More information in the arguments
      - Connection ID, DB name, user, host, etc



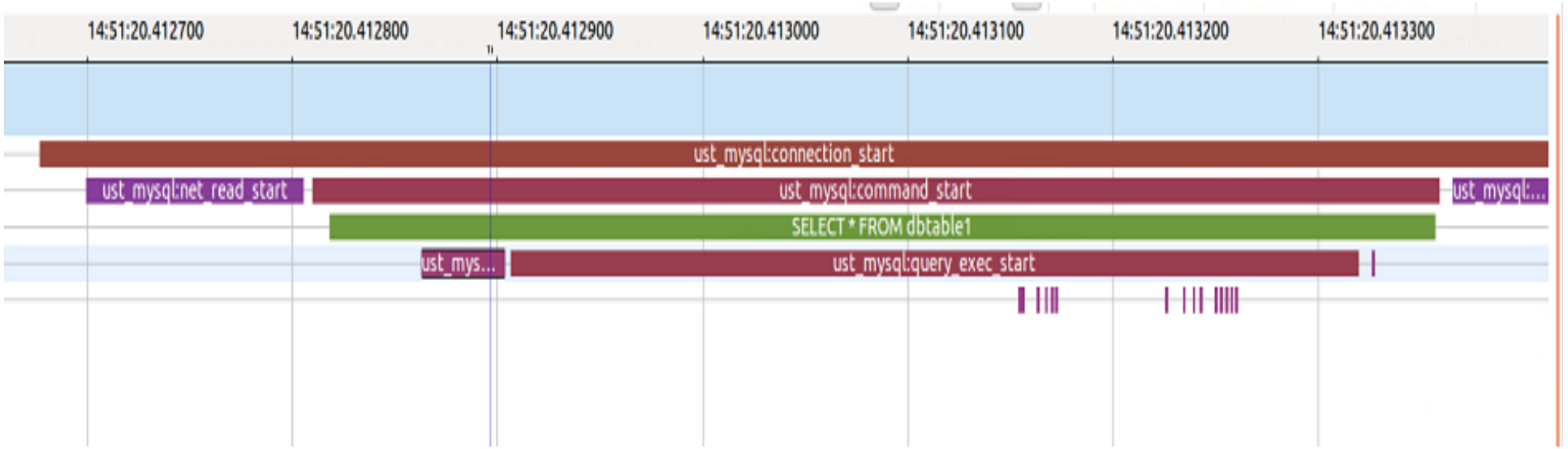
Installtion

```
./configure --enable-lttng
cmake .
make
sudo make install
```

```
/home/naserez $> lttng list -u | grep "mysql:"
      ust_mysql:net_write_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:net_write_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:net_read_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:net_read_miss (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:net_read_hit (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:net_read_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:multi_delete_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:multi_delete_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:delete_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:delete_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:multi_update_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:multi_update_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:update_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:update_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_select_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_select_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:select_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:select_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:filesort_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:filesort_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_unlock_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_unlock_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_wrlock_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_wrlock_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_rdlock_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:handler_rdlock_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:index_read_row_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:index_read_row_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:read_row_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:read_row_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:delete_row_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:delete_row_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:update_row_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:update_row_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_row_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:insert_row_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_exec_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_exec_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_cache_miss (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_cache_hit (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_parse_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_parse_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:query_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:command_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:command_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:connection_done (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
      ust_mysql:connection_start (loglevel: TRACE_DEBUG_LINE (13)) (type: tracepoint)
```

Example

Select * from dbtable1;



Example 2

```
select * from pfwp_statistics_visitor where id = 273;
(no_cache)   T: 407,792 ns
```

```
set global query_cache_size=2 * 1024 * 1024;
```

```
select * from pfwp_statistics_visitor where id = 273;
(cache_miss) T: 408,858 ns
```

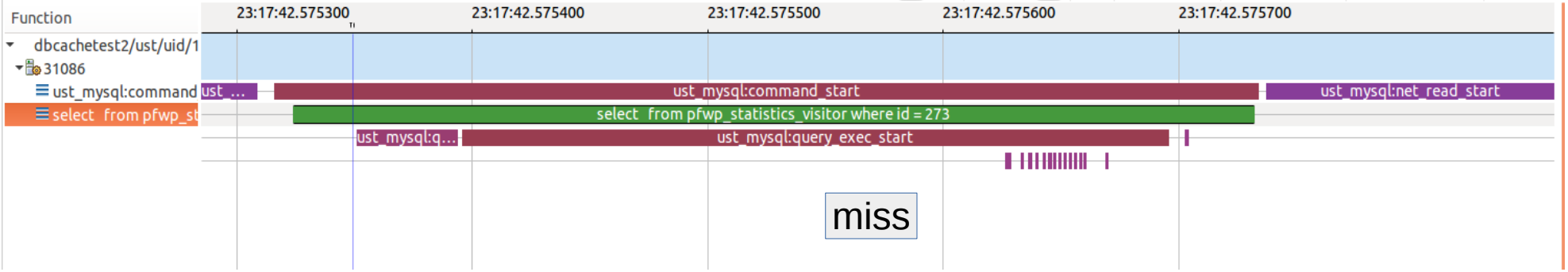
```
select * from pfwp_statistics_visitor where id = 273;
(cache_hit)  T: 42,708 ns
```

dbcachetest2/ust/uid/1000/64-bit

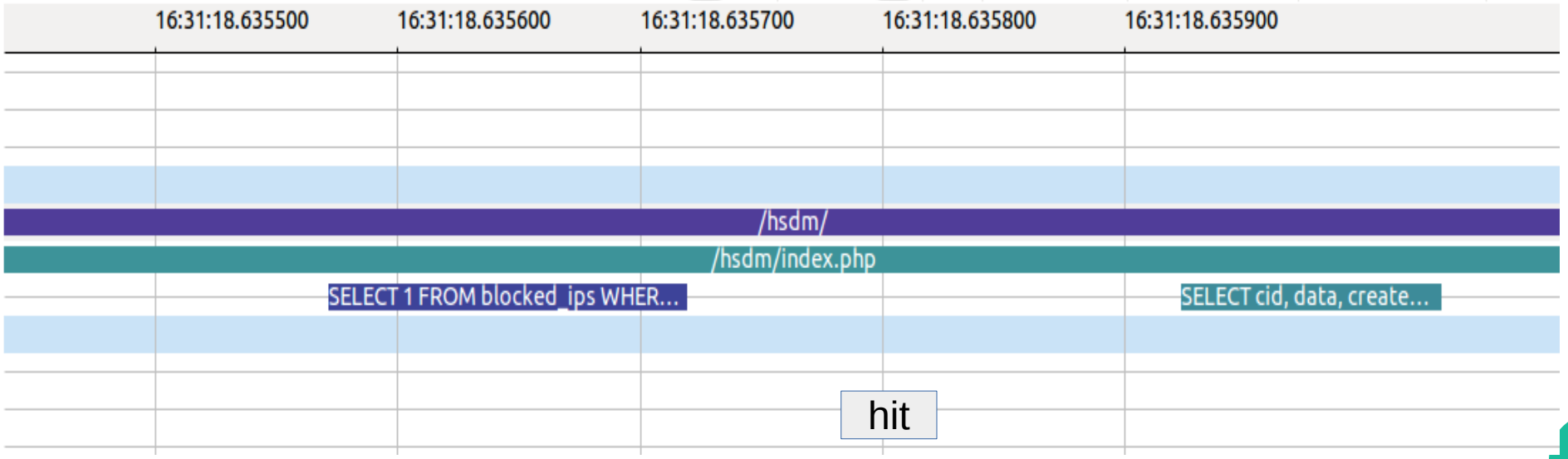
Timestamp	Channel	CPU	Event type	Contents
<srch>	<srch>	<srch>	<srch>	<srch>
23:17:39.369 848 397	ss_2	2	ust_mysql:command_done	result=0, thread_id=17787, context._vtid=31086
23:17:39.369 856 327	ss_2	2	ust_mysql:net_read_start	context._vtid=31086
23:17:42.575 308 310	ss_0	0	ust_mysql:net_read_done	result=0, len=53, context._vtid=31086
23:17:42.575 315 827	ss_0	0	ust_mysql:command_start	thread_id=17787, command=3, priv_user=root, host_or_ip=localhost, context._vtid=31086
23:17:42.575 324 029	ss_0	0	ust_mysql:query_start	query=select * from pfwp_statistics_visitor where id = 273, thread_id=17787, db=my_wiki, priv_user=root
23:17:42.575 349 057	ss_0	0	ust_mysql:query_cache_miss	query=select * from pfwp_statistics_visitor where id = 273, context._vtid=31086
23:17:42.575 351 159	ss_0	0	ust_mysql:query_parse_start	query=select * from pfwp_statistics_visitor where id = 273, context._vtid=31086
23:17:42.575 393 433	ss_0	0	ust_mysql:query_parse_done	result=0, context._vtid=31086
23:17:42.575 395 746	ss_0	0	ust_mysql:query_exec_start	query=select * from pfwp_statistics_visitor where id = 273, thread_id=17787, db=my_wiki, priv_user=root
23:17:42.575 433 718	ss_0	0	ust_mysql:handler_rdlock_start	db=my_wiki, table_name=pfwp_statistics_visitor, context._vtid=31086

1

Properties | Bookmarks | State System Explorer | Critical Flow View | Progress | LAMP callstack Callstack View | Mysql query analysis Callstack View | Mysql query analysis



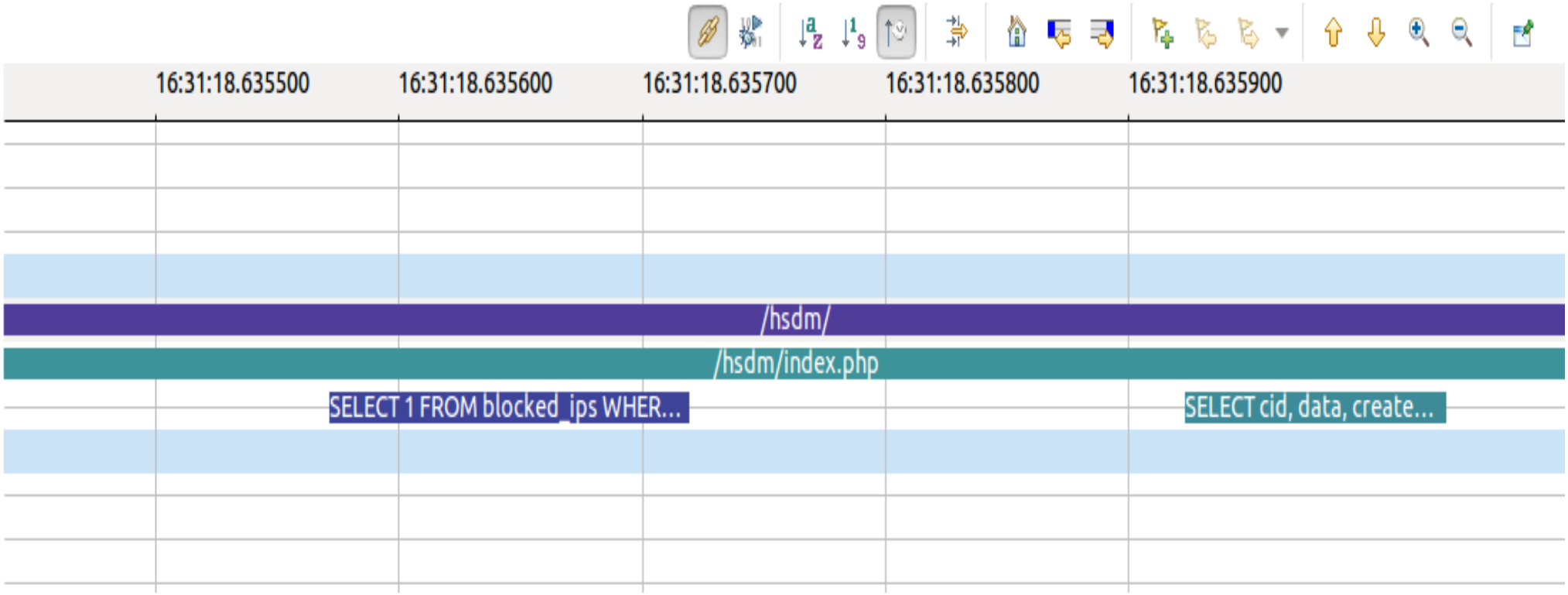
miss



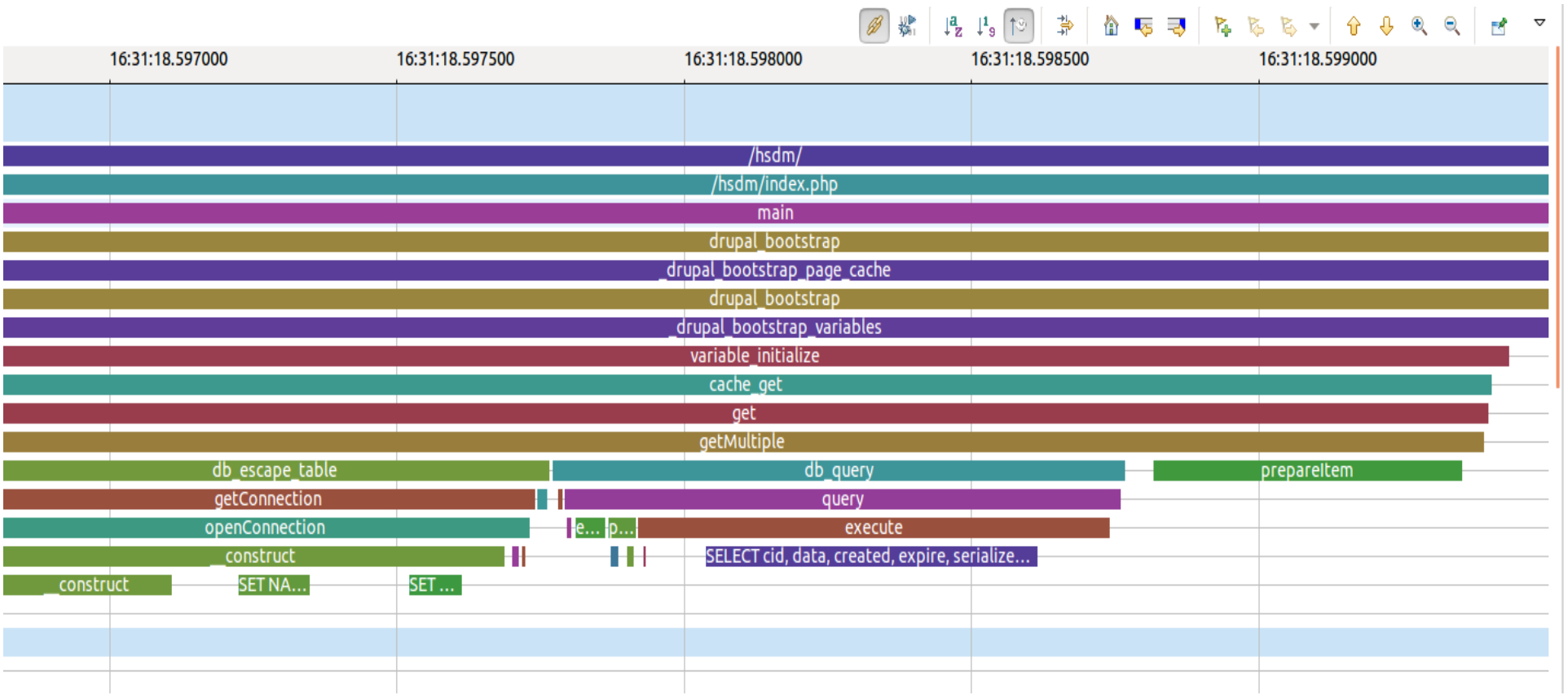
hit

2

4- LAMP stack analysis

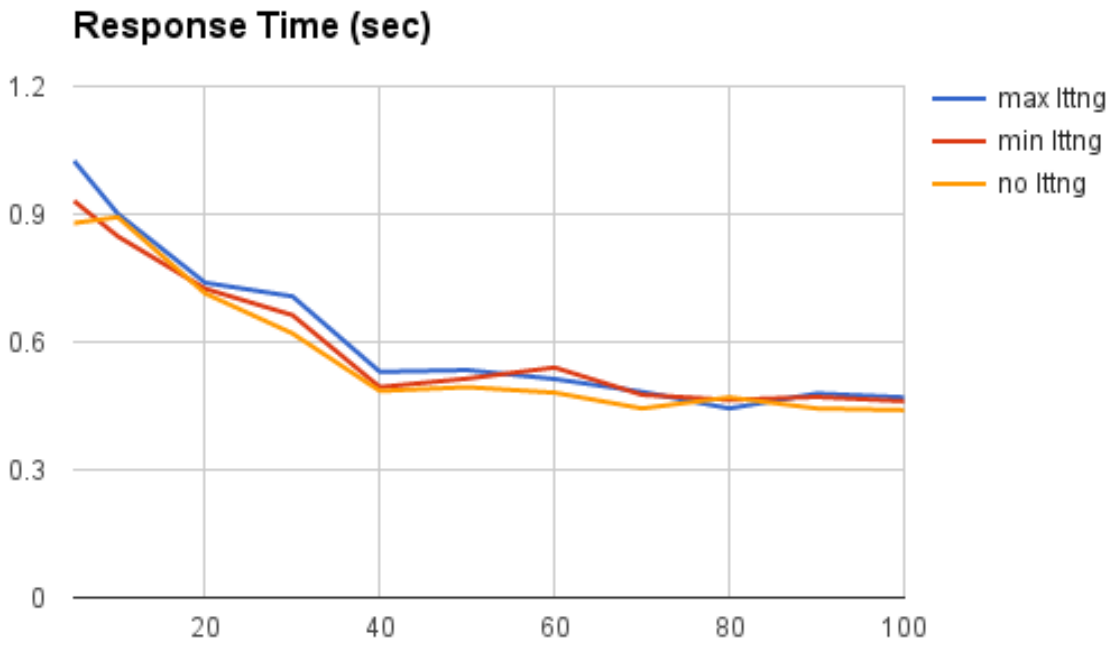


Flame chart


16:31:18.597000
16:31:18.597500
16:31:18.598000
16:31:18.598500
16:31:18.599000
/hsdm/
/hsdm/index.php
main
drupal_bootstrap
_drupal_bootstrap_page_cache
drupal_bootstrap
_drupal_bootstrap_variables
variable_initialize
cache_get
get
getMultiple
db_escape_table
db_query
prepareItem
getConnection
query
openConnection
e...
p...
execute
_construct
SELECT cid, data, created, expire, serialize...
_construct
SET NA...
SET ...

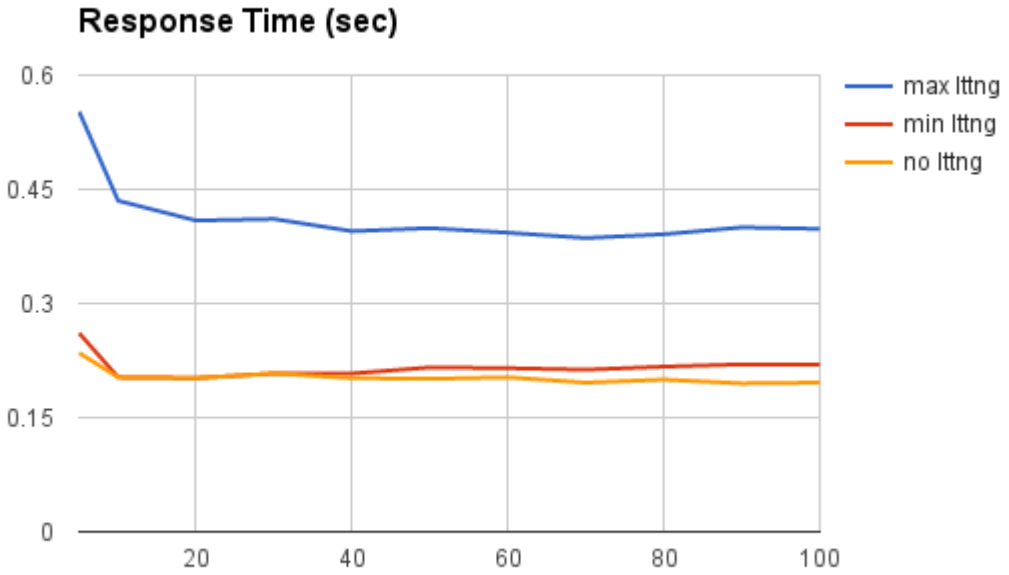
Performance

- **ab -c [5-100] -n 5000 http://132.207.72.37/drupal**
- **28000 lines of code**



Performance (the worst case)

- **ab -c [5-100] -n 1000 http://32.207.72.37/test/bench.php**
- **65,000,000 lines of code**



Usecase: PHP Compile prblem

- **Multilevel lamp stack view**
  - PHP compile problem
- **Apache modules**
- **PHP compile time**
- **Mysql overhead view**
- **VM ovearhead view**

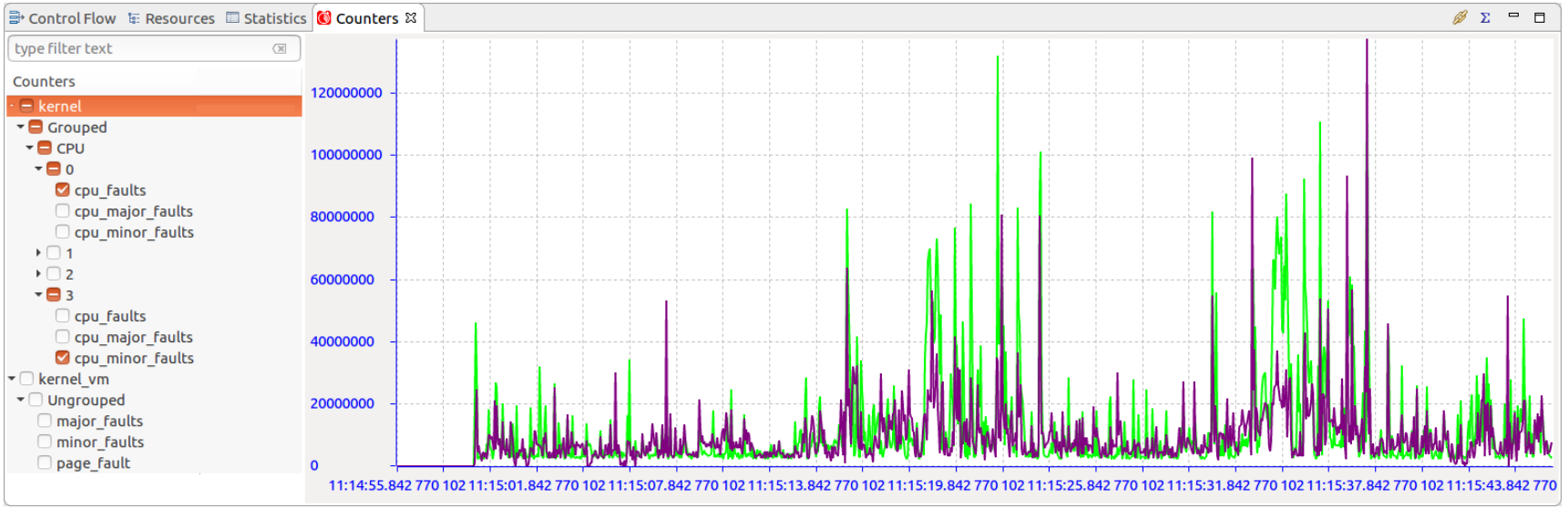
Trace Compass Updates

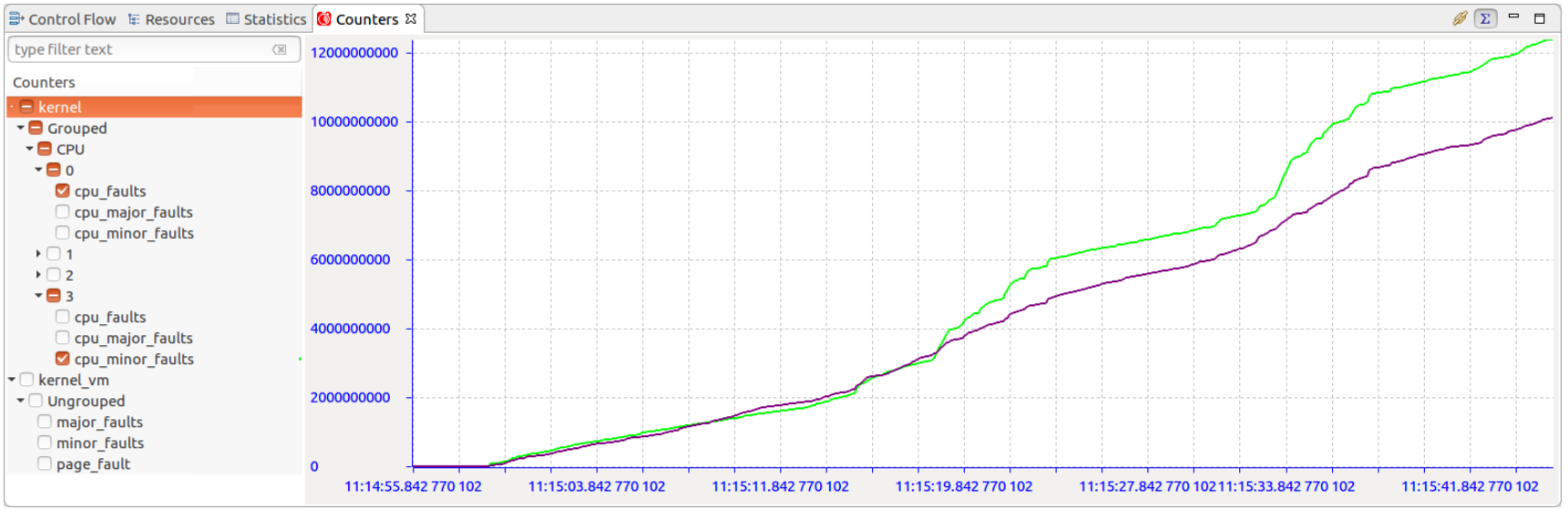
- **Incubator**
- **Multilevel Flame charts**
- **Multilevel Flame graphs**
- **VM overhead view**
- **Critical path using Perf events.**
- **Counters Analysis**

Trace Compass Incubator

- **The features that are under development, but still usable enough to be used and tested by users.**
- **Whose content relates to a specific trace type or domain of analysis (for example virtual machine analyses) and that no other plugin will depend on.**
- **The features will never be officially released with a specific version**
- **Some feature may eventually graduate to the Trace Compass project itself if required**
  - https://wiki.eclipse.org/Trace_Compass/Contributor_Guidelines

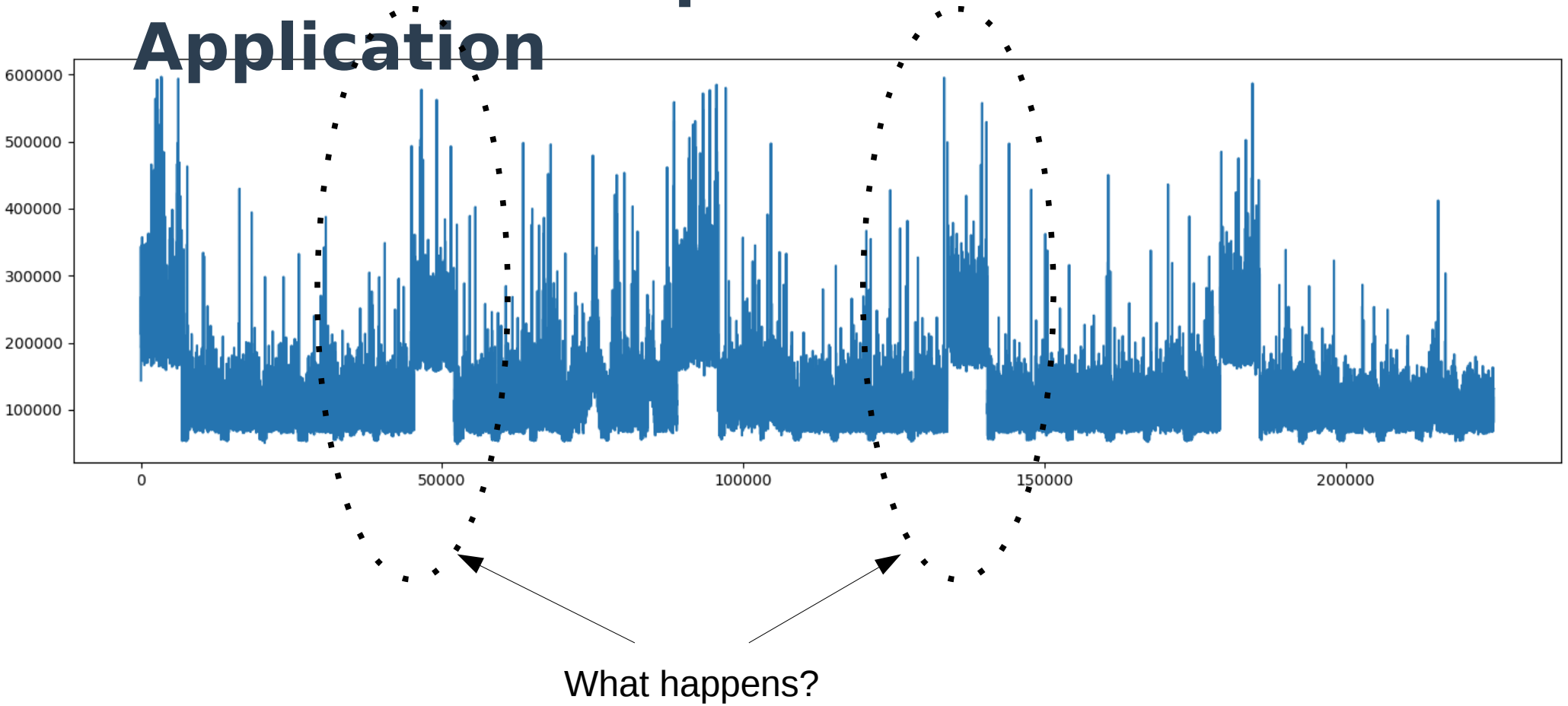
Trace Compass Counters Analysis





Use-case:
PHP OPCACHE
Performance Analysis

Response Time of a Web Application



PHP Request Anatomy

- **PHP Is a scripting language**
  - compiles any file you ask it to run, obtain OPCodes from compilation, run them, and trash them away immediately.

- **Parse, compile, execute, forget**

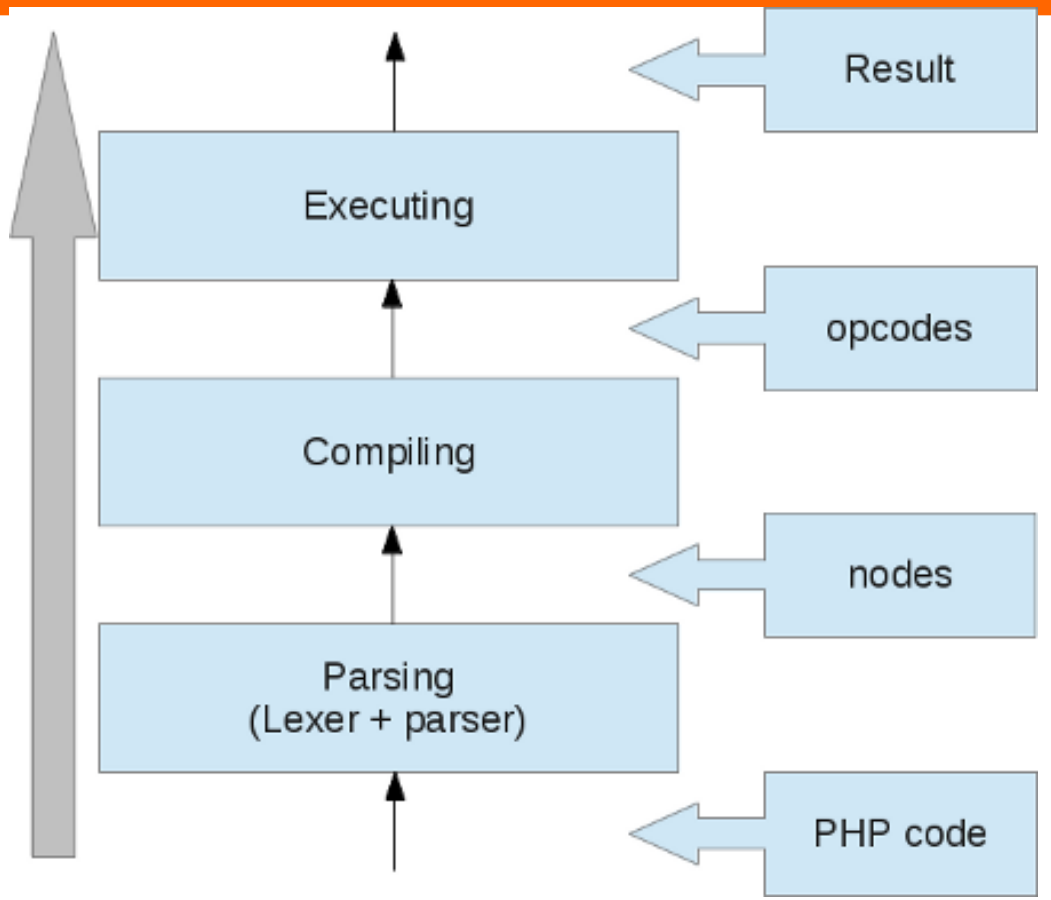
  Parse, compile, execute, forget

  Parse, compile, execute, forget

  ...

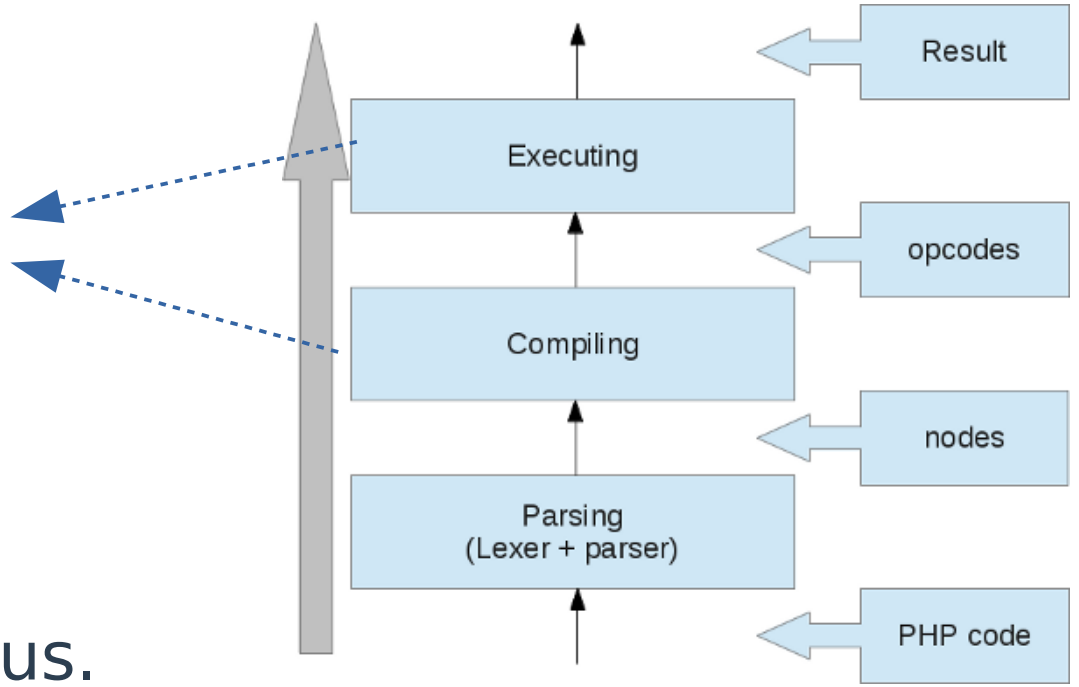
PHP "forgets" everything it's done in request N-1, when it comes to run request N.
- Even if it calls the same scripts

  several times.

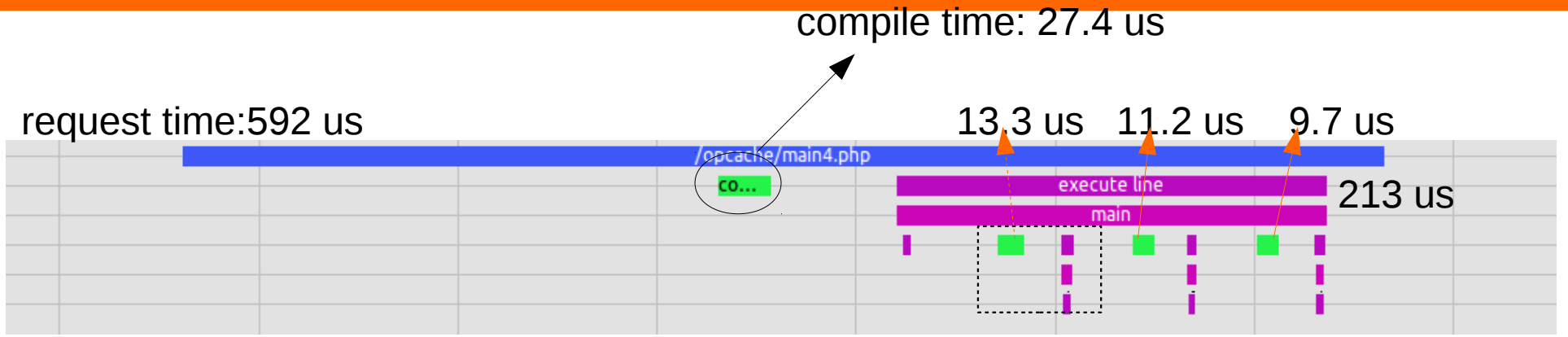


PHP Request Anatomy (2)

- **Which one is the longest?**
  - It depends!
  - Let's see what trace data gives us.

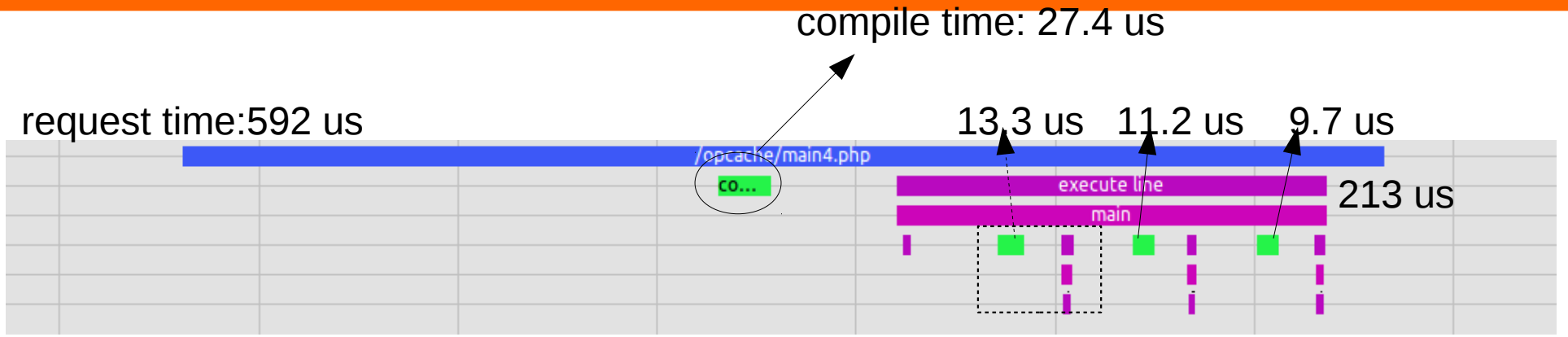


Compile Time Analysis




```
 1 <?php /*main4.php*/
 2
 3 $x = rand(0,1000);
 4
 5 echo $x.PHP_EOL;
 6 $xy = 123;
 7 include 'folder1/'.$xy.'.php';
 8 include 'folder2/'.$xy.'.php';
 9 include 'folder3/'.$xy.'.php';
10
11 echo $x.PHP_EOL;
12 ?>
```

Compile Time: UST Events



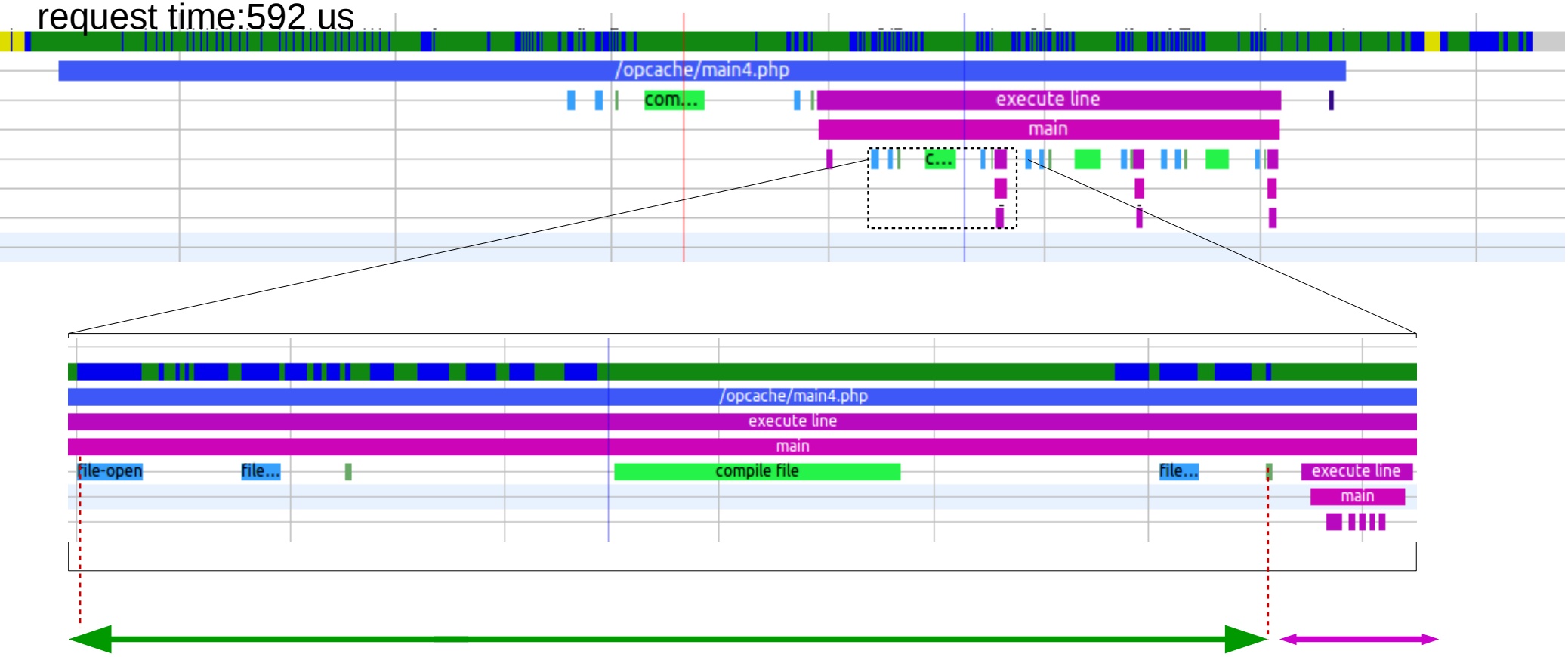

```
 1 <?php /*main4.php*/
 2
 3 $x = rand(0,1000);
 4
 5 echo $x.PHP_EOL;
 6 $xy = 123;
 7 include 'folder1/'.$xy.'.php';
 8 include 'folder2/'.$xy.'.php';
 9 include 'folder3/'.$xy.'.php';
10
11 echo $x.PHP_EOL;
12 ?>
```

Compilation time: 60us (~ 10 % of the request time)

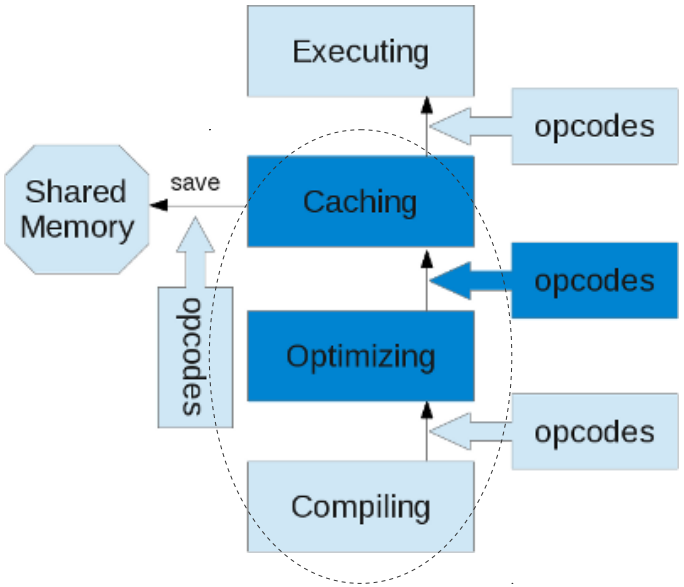
But, let's go deeper!

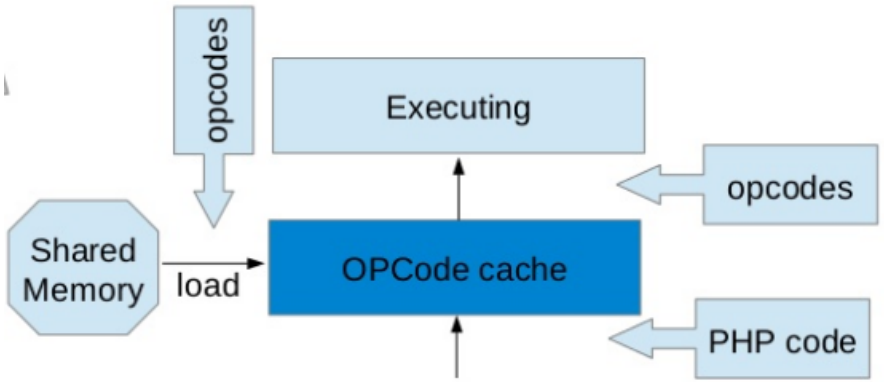
Kernel + UST Events

Now looks much more!



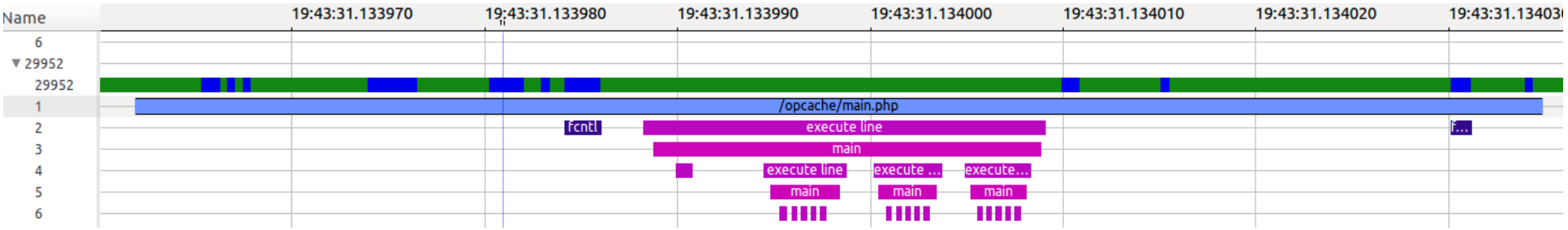
Solution: Opcode Cache (Opcache)





Cache at first run → Load from cache after

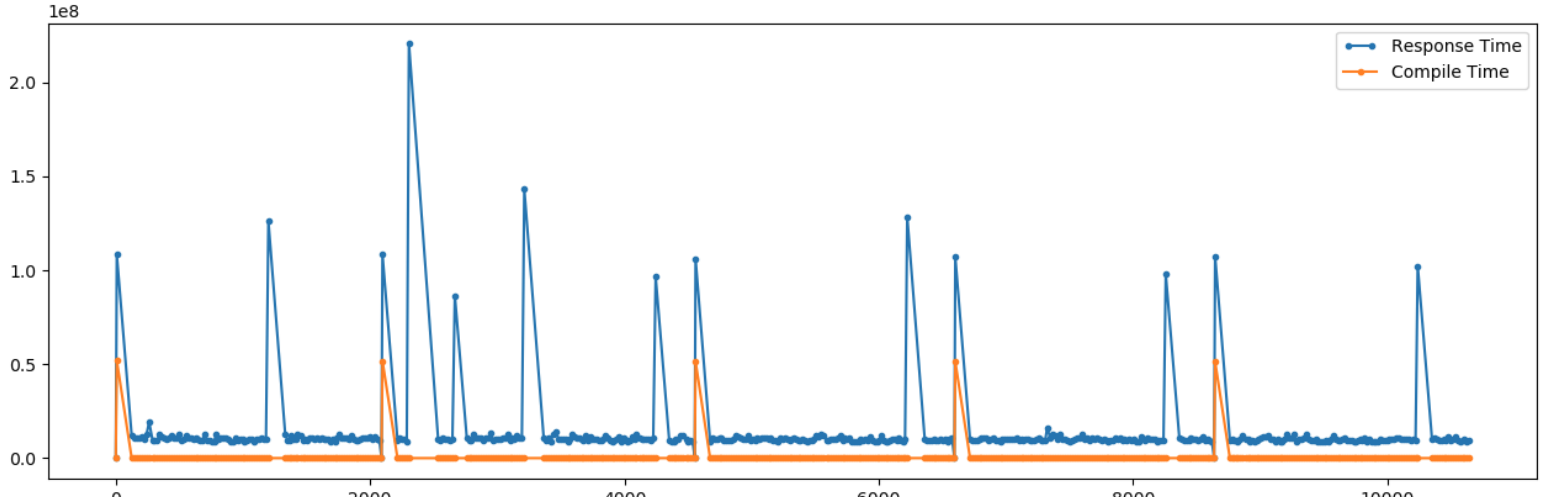
Solution: Opcode Cache (Opcache)

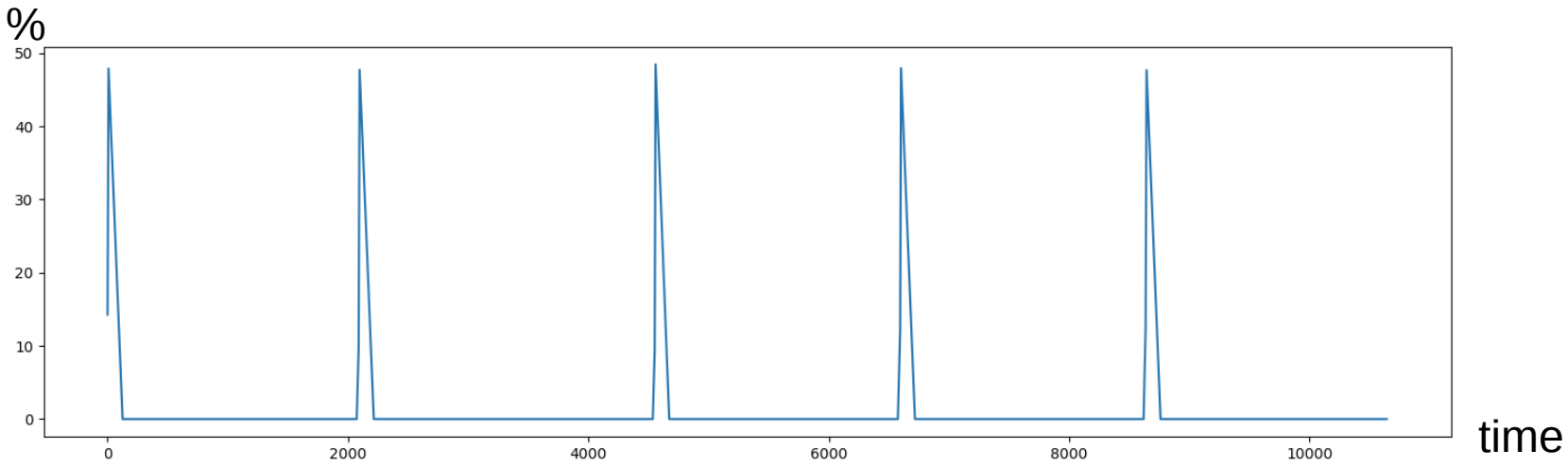


Loads from cache

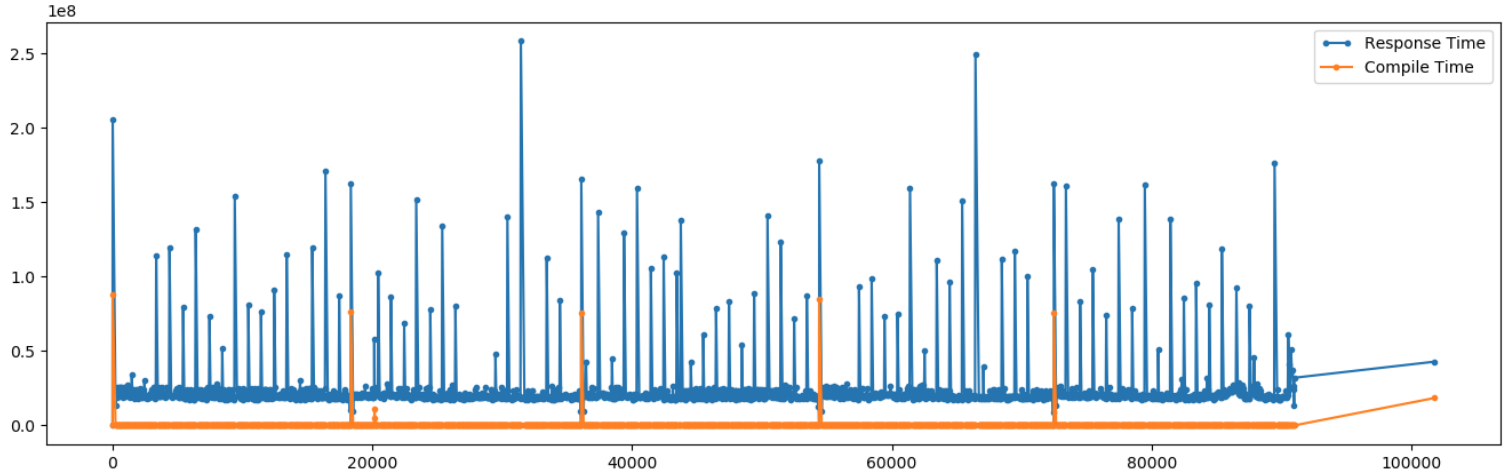
Resoponse time:
592 us --> 73 us (with caching)

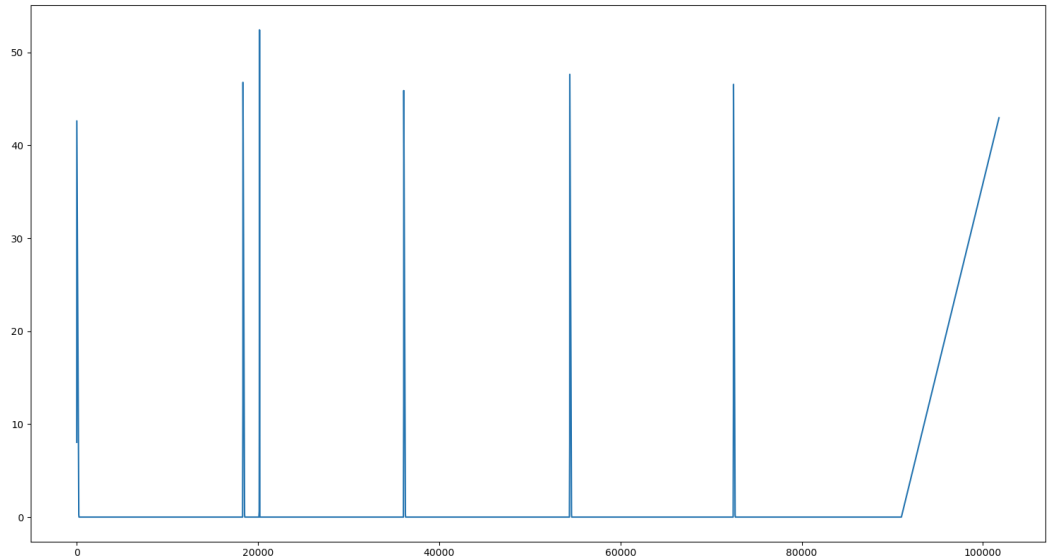
Compile Time: Drupal



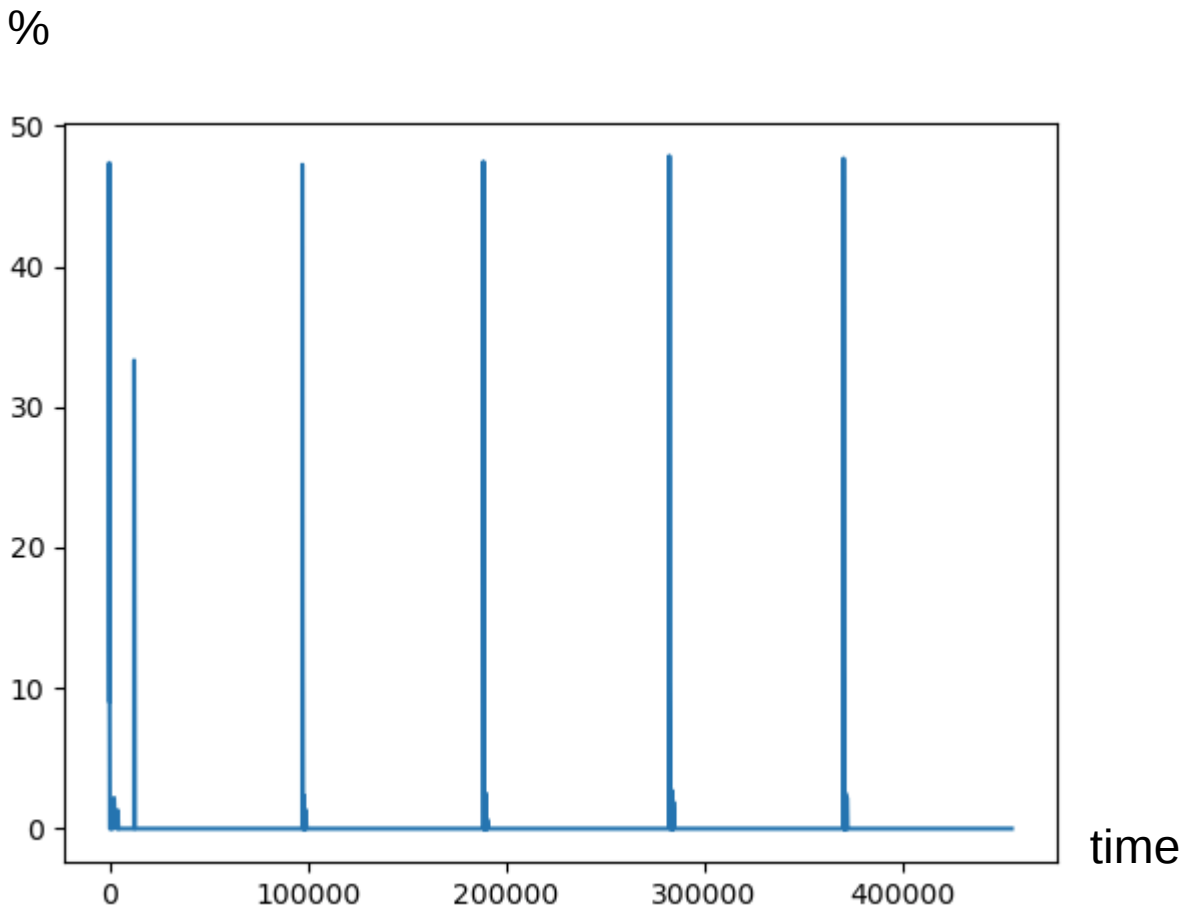


Compile Time: WordPress

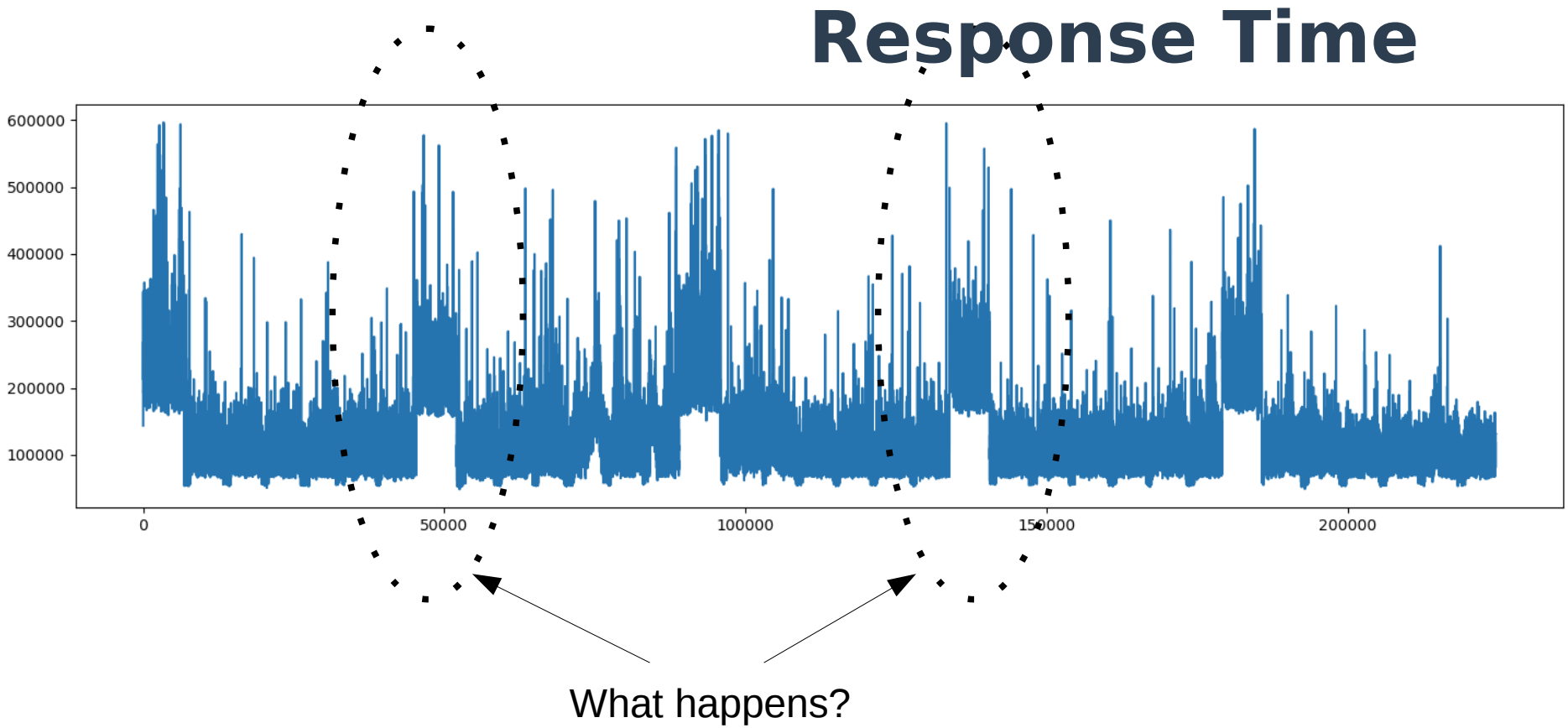


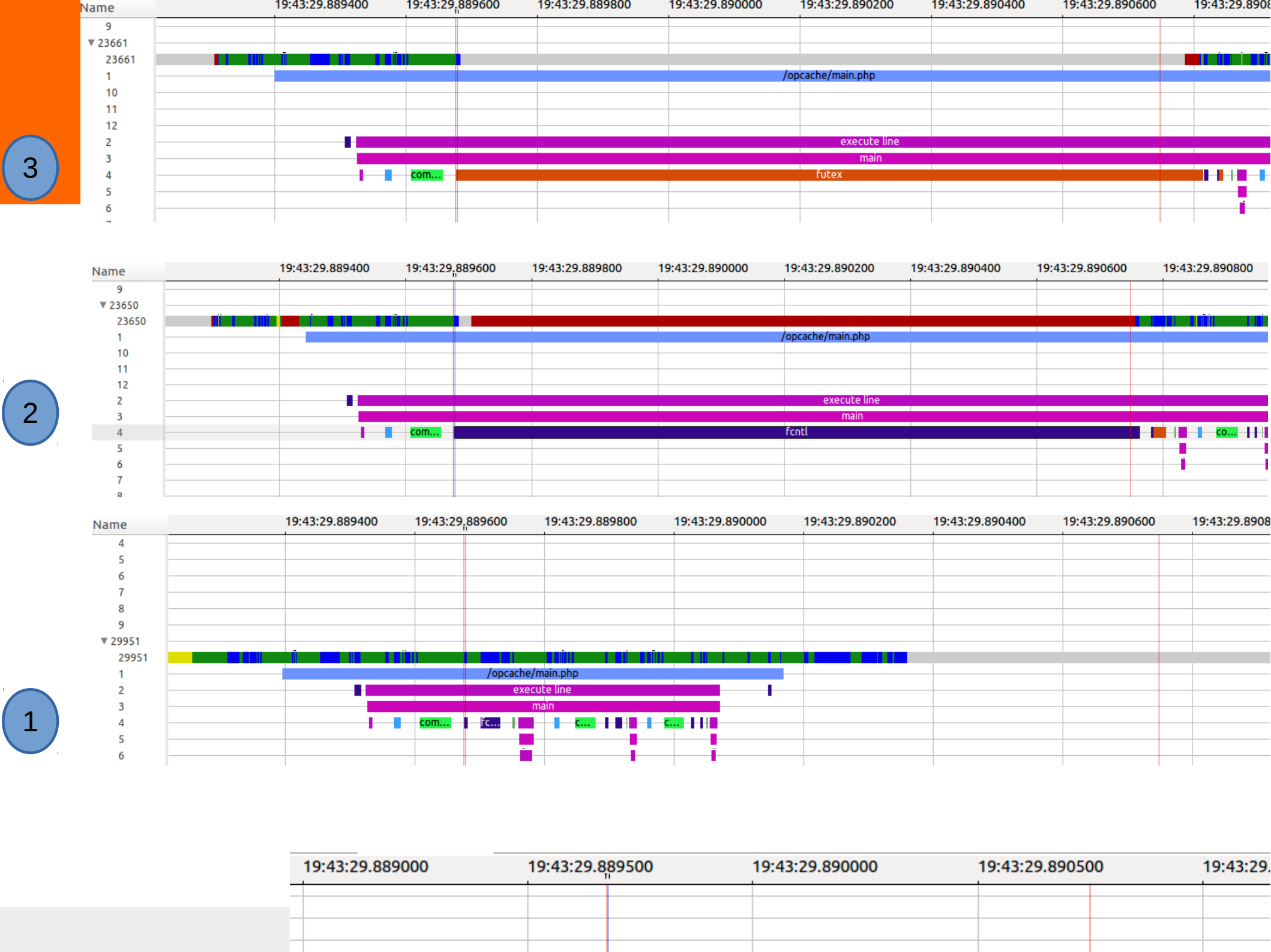


Compile Time: MediaWiki

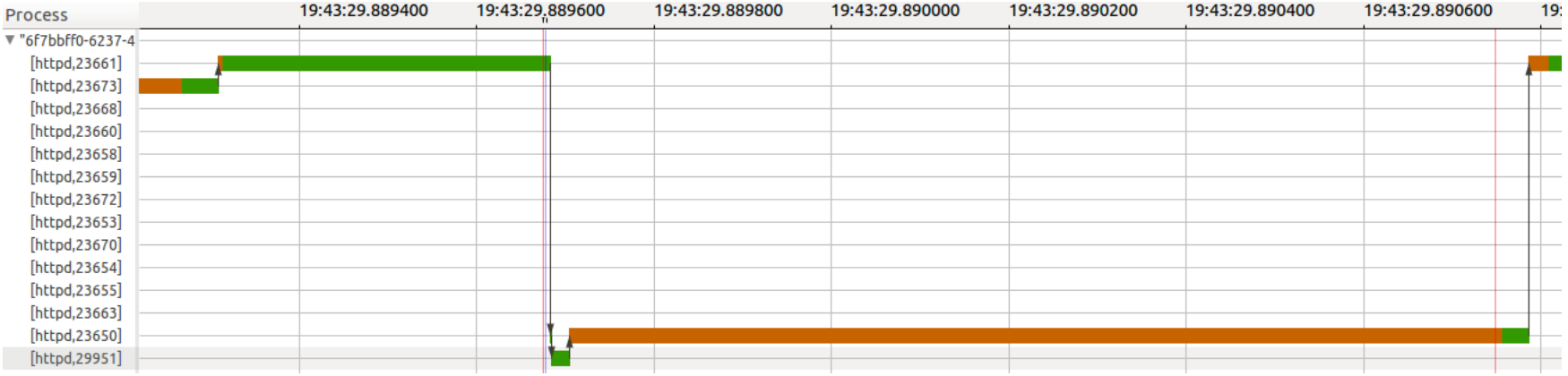


Let's back to our example



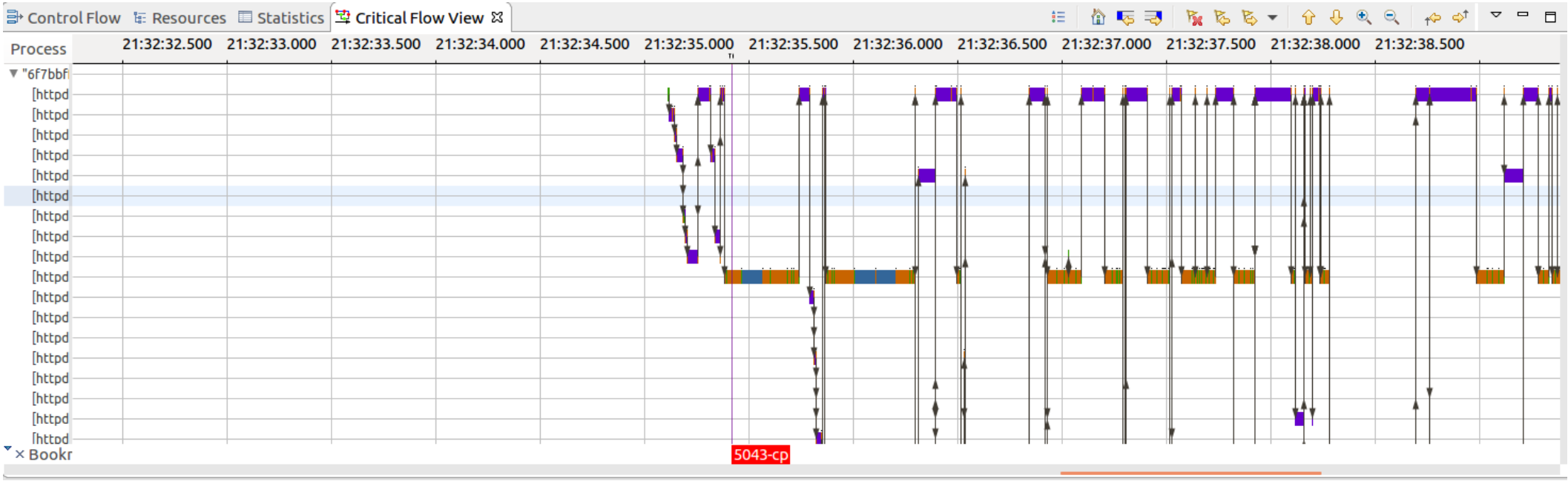

Name
19:43:29.889400
19:43:29.889600
19:43:29.889800
19:43:29.890000
19:43:29.890200
19:43:29.890400
19:43:29.890600
19:43:29.890800
9
▼ 23661
23661
1
10
11
12
2
3
4
5
6
/opcache/main.php
execute line
main
com...
futex
3
Name
19:43:29.889400
19:43:29.889600
19:43:29.889800
19:43:29.890000
19:43:29.890200
19:43:29.890400
19:43:29.890600
19:43:29.890800
9
▼ 23650
23650
1
10
11
12
2
3
4
5
6
7
/opcache/main.php
execute line
main
com...
fcntl
2
Name
19:43:29.889400
19:43:29.889600
19:43:29.889800
19:43:29.890000
19:43:29.890200
19:43:29.890400
19:43:29.890600
19:43:29.8908
4
5
6
7
8
9
▼ 29951
29951
1
2
3
4
5
6
/opcache/main.php
execute line
main
com...
1
19:43:29.889000
19:43:29.889500
19:43:29.890000
19:43:29.890500
19:43:29.

Critical Flow



Every PHP process that is willing to write into shared memory will lock every other process willing to write into shared memory as well.

Critical Flow



Resources

Modules to install:

https://github.com/naser

Traces and XML files:

https://github.com/naser/tracingsumit2017

Trace Compass:

http://tracecompass.org

LTTng:

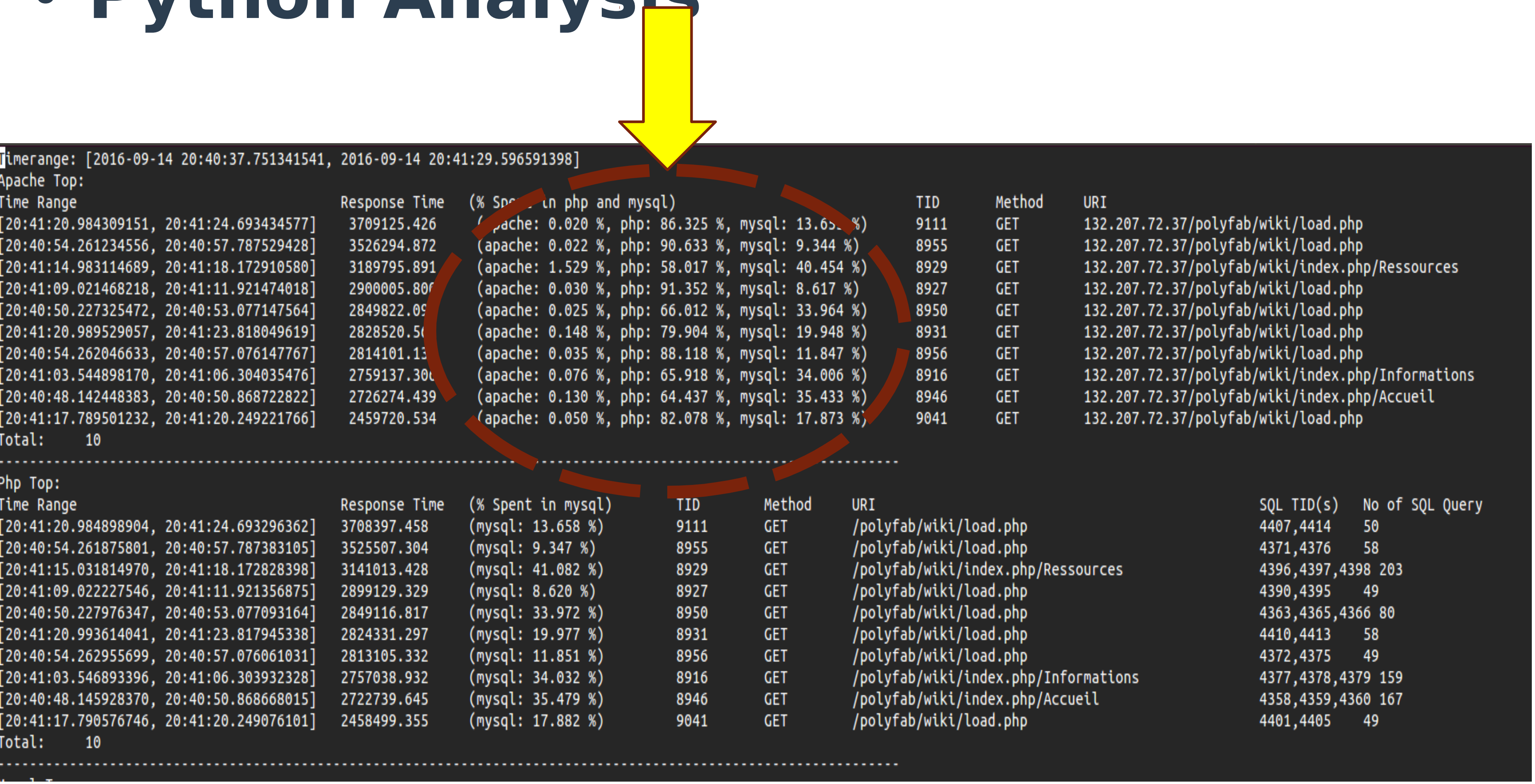
http://lttng.org/

Thank you

n.ezzati@polymtl.ca

Other Slides

- **Python Analysis**



```
Timerange: [2016-09-14 20:40:37.751341541, 2016-09-14 20:41:29.596591398]
Apache Top:
Time Range                                Response Time   (% Sp    in php and mysql)                               TID      Method     URI
[20:41:20.984309151, 20:41:24.693434577]   3709125.426      pache: 0.020 %, php: 86.325 %, mysql: 13.65  %)    9111     GET        132.207.72.37/polyfab/wiki/load.php
[20:40:54.261234556, 20:40:57.787529428]   3526294.872     (apache: 0.022 %, php: 90.633 %, mysql: 9.344 %)    8955     GET        132.207.72.37/polyfab/wiki/load.php
[20:41:14.983114689, 20:41:18.172910580]   3189795.891     (apache: 1.529 %, php: 58.017 %, mysql: 40.454 %)   8929     GET        132.207.72.37/polyfab/wiki/index.php/Ressources
[20:41:09.021468218, 20:41:11.921474018]   2900005.80      (apache: 0.030 %, php: 91.352 %, mysql: 8.617 %)    8927     GET        132.207.72.37/polyfab/wiki/load.php
[20:40:50.227325472, 20:40:53.077147564]   2849822.09      (apache: 0.025 %, php: 66.012 %, mysql: 33.964 %)   8950     GET        132.207.72.37/polyfab/wiki/load.php
[20:41:20.989529057, 20:41:23.818049619]   2828520.5       (apache: 0.148 %, php: 79.904 %, mysql: 19.948 %)   8931     GET        132.207.72.37/polyfab/wiki/load.php
[20:40:54.262046633, 20:40:57.076147767]   2814101.13      (apache: 0.035 %, php: 88.118 %, mysql: 11.847 %)   8956     GET        132.207.72.37/polyfab/wiki/load.php
[20:41:03.544898170, 20:41:06.304035476]   2759137.30      (apache: 0.076 %, php: 65.918 %, mysql: 34.006 %)   8916     GET        132.207.72.37/polyfab/wiki/index.php/Informations
[20:40:48.142448383, 20:40:50.868722822]   2726274.439     (apache: 0.130 %, php: 64.437 %, mysql: 35.433 %)   8946     GET        132.207.72.37/polyfab/wiki/index.php/Accueil
[20:41:17.789501232, 20:41:20.249221766]   2459720.534     (apache: 0.050 %, php: 82.078 %, mysql: 17.873 %)   9041     GET        132.207.72.37/polyfab/wiki/load.php
Total:     10
-------------------------------------------------------------------------------------------------------------------------------
Php Top:
Time Range                                Response Time   (% Spent in mysql)    TID      Method    URI                                          SQL TID(s)      No of SQL Query
[20:41:20.984898904, 20:41:24.693296362]  3708397.458     (mysql: 13.658 %)     9111     GET       /polyfab/wiki/load.php                       4407,4414       50
[20:40:54.261875801, 20:40:57.787383105]  3525507.304     (mysql: 9.347 %)      8955     GET       /polyfab/wiki/load.php                       4371,4376       58
[20:41:15.031814970, 20:41:18.172828398]  3141013.428     (mysql: 41.082 %)     8929     GET       /polyfab/wiki/index.php/Ressources           4396,4397,4398 203
[20:41:09.022227546, 20:41:11.921356875]  2899129.329     (mysql: 8.620 %)      8927     GET       /polyfab/wiki/load.php                       4390,4395       49
[20:40:50.227976347, 20:40:53.077093164]  2849116.817     (mysql: 33.972 %)     8950     GET       /polyfab/wiki/load.php                       4363,4365,4366 80
[20:41:20.993614041, 20:41:23.817945338]  2824331.297     (mysql: 19.977 %)     8931     GET       /polyfab/wiki/load.php                       4410,4413       58
[20:40:54.262955699, 20:40:57.076061031]  2813105.332     (mysql: 11.851 %)     8956     GET       /polyfab/wiki/load.php                       4372,4375       49
[20:41:03.546893396, 20:41:06.303932328]  2757038.932     (mysql: 34.032 %)     8916     GET       /polyfab/wiki/index.php/Informations         4377,4378,4379 159
[20:40:48.145928370, 20:40:50.868668015]  2722739.645     (mysql: 35.479 %)     8946     GET       /polyfab/wiki/index.php/Accueil              4358,4359,4360 167
[20:41:17.790576746, 20:41:20.249076101]  2458499.355     (mysql: 17.882 %)     9041     GET       /polyfab/wiki/load.php                       4401,4405       49
Total:     10
-------------------------------------------------------------------------------------------------------------------------------
```