

## GDP - Bug #86

### Multiple subscriptions and/or multireads to the same log don't work

11/01/2016 10:41 AM - Nitesh Mor

|                        |             |                        |            |
|------------------------|-------------|------------------------|------------|
| <b>Status:</b>         | Closed      | <b>Start date:</b>     | 11/01/2016 |
| <b>Priority:</b>       | Normal      | <b>Due date:</b>       |            |
| <b>Assignee:</b>       | Eric Allman | <b>% Done:</b>         | 0%         |
| <b>Category:</b>       | gdplogd     | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b> |             |                        |            |

#### Description

*This is a long known bug, but hadn't been reported earlier. Reporting it to make sure everyone is aware of it and duplicated bug-reporting can be avoided.*

In a single client program, multiple subscriptions and/or multireads to the same log do not work.

An example program to reproduce is attached (in Python, but similar behavior is observed in C). It starts one thread appending data to a single log, and a number of threads all subscribed to the same log. Example output is shown below, where two threads are subscribed and each of them gets half of the events. Ideally, both of them should get all the events.

```
$ ./sub.py edu.berkeley.eecs.mor.nov01.01 2 3 10
0.000027 ## MainThread] logname: edu.berkeley.eecs.mor.nov01.01
0.000192 ## MainThread] Starting Append Thread
0.001046 ## MainThread] Starting SThread1
0.002986 ## MainThread] Starting SThread2
0.018443 ## SThread2] <gdp.GDP_GCL.GDP_GCL object at 0x7f0e96988f10>
0.018925 ## SThread1] <gdp.GDP_GCL.GDP_GCL object at 0x7f0e96988f10>
0.019084 ## AThread] <gdp.GDP_GCL.GDP_GCL object at 0x7f0e96988f10>
4.019747 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-0" to edu.berkeley.eecs.mor.nov01.01
4.029345 ## SThread2] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-0" on edu.berkeley.eecs.mor.nov01.01
5.033138 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-1" to edu.berkeley.eecs.mor.nov01.01
5.041354 ## SThread1] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-1" on edu.berkeley.eecs.mor.nov01.01
6.045596 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-2" to edu.berkeley.eecs.mor.nov01.01
6.053885 ## SThread2] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-2" on edu.berkeley.eecs.mor.nov01.01
7.058105 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-3" to edu.berkeley.eecs.mor.nov01.01
7.066408 ## SThread1] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-3" on edu.berkeley.eecs.mor.nov01.01
8.070576 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-4" to edu.berkeley.eecs.mor.nov01.01
8.078007 ## SThread2] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-4" on edu.berkeley.eecs.mor.nov01.01
9.082260 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-5" to edu.berkeley.eecs.mor.nov01.01
9.090351 ## SThread1] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-5" on edu.berkeley.eecs.mor.nov01.01
10.094745 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-6" to edu.berkeley.eecs.mor.nov01.01
10.103920 ## SThread2] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-6" on edu.berkeley.eecs.mor.nov01.01
11.108260 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-7" to edu.berkeley.eecs.mor.nov01.01
11.116652 ## SThread1] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-7" on edu.berkeley.eecs.mor.nov01.01
12.120698 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-8" to edu.berkeley.eecs.mor.nov01.01
12.128886 ## SThread2] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-8" on edu.berkeley.eecs.mor.nov01.01
```

```
or.nov01.01
13.133071 ## AThread] Appending "edu.berkeley.eecs.mor.nov01.01-AThread-9" to edu.berkeley.eecs.mo
r.nov01.01
13.141810 ## SThread1] Got data: "edu.berkeley.eecs.mor.nov01.01-AThread-9" on edu.berkeley.eecs.m
or.nov01.01
```

## History

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### #1 - 11/11/2016 10:12 AM - Eric Allman

- *Category changed from libgdp to gdplogd*
- *Status changed from New to Resolved*

I believe this should be fixed in commit:029cf007. It turns out it was in gdplogd, not libgdp.

### #2 - 11/12/2016 03:31 PM - Nitesh Mor

- *Status changed from Resolved to Closed*

Seems to work. I can no longer reproduce this bug. Closing.

## Files

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|        |         |            |            |
|--------|---------|------------|------------|
| sub.py | 2.66 KB | 11/01/2016 | Nitesh Mor |
|--------|---------|------------|------------|