

## GDP - Bug #110

### gdp\_gcl\_close() raises assertion failure with active subscriptions

06/21/2017 11:56 AM - Nitesh Mor

<b>Status:</b>	Closed	<b>Start date:</b>	06/21/2017
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Eric Allman	<b>% Done:</b>	0%
<b>Category:</b>	libgdp	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<p>If there are active subscription on a GCL, a call to <code>gdp_gcl_close()</code> causes assertion failures (see relevant output below). The expected behavior is that if the gcl is not being referenced elsewhere (other than subscriptions, multireads, etc), it should be <i>freed</i> cleanly and any active subscriptions be terminated. (<a href="#">source:gdp/gdp_gcl_ops.c#L522</a>)</p> <pre>*** Processing ack/nak 128=ACK_SUCCESS from socket 7 gdp_pdu_proc_resp(0x7fc128000f90 ACK_SUCCESS) gcl 0x215b900 _gdp_req_dispatch &gt;&gt;&gt; ACK_SUCCESS (128) [gcl-&gt;refcnt 1] ack_success: received ACK_SUCCESS for CMD_CLOSE _gdp_req_dispatch &lt;&lt;&lt; ACK_SUCCESS [gcl-&gt;refcnt 1]     OK [200 = 0xc8] &lt;&lt;&lt; _gdp_invoke(0x215cc40 rid=0) CMD_CLOSE: OK [200 = 0xc8] Assertion failed at gdp-reader:gdp_req.c:282: mutex &amp;req-&gt;gcl-&gt;mutex (0x215b900) is not locked (should be 836)</pre>			
<p>A quick way to reproduce this behavior is</p> <ol style="list-style-type: none"><li>1. Apply the attached patch to <code>apps/gdp-reader.c</code>, which intentionally calls <code>gdp_gcl_close()</code> with an active subscription.</li><li>2. Invoke something like <code>gdp-reader -D *=20 -s -f 0 -n 5 LOGNAME</code>.</li><li>3. Start appending data to LOGNAME using <code>gdp-writer</code>.</li></ol>			

## History

### #1 - 06/21/2017 05:08 PM - Eric Allman

- Status changed from New to Feedback

I believe this to be fixed in commit:c89b74ec, but with the network problems today I haven't been able to push the changes to the repo yet. Please check it and verify when I can push it out, probably tomorrow. Or you can apply the patch manually (below). Thanks.

```
----- gdp/gdp_gcl_ops.c -----
index afcd038..d195777 100644
@@ -154,12 +154,12 @@ _gdp_gcl_freehandle(gdp_gcl_t *gcl)
     // drop it from the name -> handle cache
     _gdp_gcl_cache_drop(gcl);

-    // should be inaccessible now
-    _gdp_gcl_unlock(gcl);
-
     // release any remaining requests
     _gdp_req_freeall(&gcl->reqs, NULL);

+    // should be inaccessible now
+    _gdp_gcl_unlock(gcl);
+
     // free any additional per-GCL resources
     if (gcl->freefunc != NULL)
         (*gcl->freefunc)(gcl);
```

(Hmm, I guess I forgot to correct the spelling on "inaccessible".)

**#2 - 06/21/2017 08:39 PM - Nitesh Mor**

- *Status changed from Feedback to Closed*

Yes, it works. Thanks.  
Closing the issue.

**Files**

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gdp-reader.patch	577 Bytes	06/21/2017	Nitesh Mor
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