

Recording RTT and RTO values

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-12/0001.html>

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To: freebsd-performance@freebsd.org
Date: Fri, 26 Dec 2003 16:19:05 +0530

Hello,

I am a student from the University of Southern California. I am currently pursuing my master.

I am working on a project in which I need to record the RTT and RTO values of a TCP connection.

To achieve the same I first re-compiled my kernel to support debug mode.

I then used a simple client server socket program to transfer a file. The sockets had the debug option set.

Thus the kernel logs were then collected using the `trpt` command.

But the problem is I am not able to figure out the required RTT and RTO values from the log.

The log looks somewhat like the following

```
762 ESTABLISHED:input (src=128.8.126.6,32858,  
dst=204.57.0.2,1666)f5ac168b@5269bce1(win=f8e0)<ACK> -> ESTABLISHED  
rcv_nxt f5ac168b rcv_wnd e240 snd_una 5269bce1 snd_nxt 5269d381 snd_max  
5269d381  
snd_wl1 f5ac168b snd_wl2 5269bce1 snd_wnd f8e0
```

```
762 ESTABLISHED:output (src=204.57.0.2,1666,  
dst=128.8.126.6,32858)[5269d381..5269d36d]@f5ac168b(win=e240)<ACK> ->  
ESTABLISHED  
rcv_nxt f5ac168b rcv_wnd e240 snd_una 5269bce1 snd_nxt 5269d929 snd_max  
5269d929  
snd_wl1 f5ac168b snd_wl2 5269bce1 snd_wnd f8e0
```

I am really not able to understand which are the RTT and RTO values in these.

Please if anyone knows do let me know. It would really be useful.

Also if anyone knows any other methods of recording the RTT and RTO values of a connection

please do let me know abt it.

I would really be grateful.

Thanking you,

Yours truly,
Tanmay Ganacharya

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