

rtl-sdr - Bug #3797

Exits with "Bus error"

02/12/2019 02:28 PM - gilani

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|-------------------------|-------------------------------|
| Status: New | Start date: 02/12/2019 |
| Priority: Normal | Due date: |
| Assignee: | % Done: 0% |
| Category: | |
| Target version: | |
| Spec Reference: | |

Description

Hi, I have an SDR dongle connected on a Raspberry Pi 3 running Kali Linux Arm64.

The SDR itself I bought from here:

<https://web.archive.org/web/20190212141813/https://www.aliexpress.com/item/100KHz-1-7GHz-Full-Band-UV-HF-RTL-SDR-USB-Tuner-Receiver-R820T-8232U-Ham-Radio/32859880270.html>

Trouble is, whenever I connect to the rtl_tcp server remotely, it exits:

```
tl_tcp -a 192.168.200.132
Found 1 device(s):
 0: Realtek, RTL2838UHIDIR, SN: 00000001

Using device 0: Generic RTL2832U OEM
Found Rafael Micro R820T tuner
[R82XX] PLL not locked!
Tuned to 100000000 Hz.
listening...
Use the device argument 'rtl_tcp=192.168.200.132:1234' in OsmoSDR (gr-osmosdr) source
to receive samples in GRC and control rtl_tcp parameters (frequency, gain, ...).
client accepted! 192.168.200.102 64098
Allocating 15 zero-copy buffers
Bus error
```

Testing with the -t flag is fine:

```
rtl_test -t
Found 1 device(s):
 0: Realtek, RTL2838UHIDIR, SN: 00000001

Using device 0: Generic RTL2832U OEM
Found Rafael Micro R820T tuner
Supported gain values (29): 0.0 0.9 1.4 2.7 3.7 7.7 8.7 12.5 14.4 15.7 16.6 19.7 20.7 22.9 25.4 28
.0 29.7 32.8 33.8 36.4 37.2 38.6 40.2 42.1 43.4 43.9 44.5 48.0 49.6
[R82XX] PLL not locked!
Sampling at 2048000 S/s.
No E4000 tuner found, aborting.
```

But testing with a sample rate results in the same undesired behavior.

```
rtl_test -s 2048000
Found 1 device(s):
 0: Realtek, RTL2838UHIDIR, SN: 00000001

Using device 0: Generic RTL2832U OEM
Found Rafael Micro R820T tuner
Supported gain values (29): 0.0 0.9 1.4 2.7 3.7 7.7 8.7 12.5 14.4 15.7 16.6 19.7 20.7 22.9 25.4 28
.0 29.7 32.8 33.8 36.4 37.2 38.6 40.2 42.1 43.4 43.9 44.5 48.0 49.6
[R82XX] PLL not locked!
Sampling at 2048000 S/s.
```

Info: This tool will continuously read from the device, and report if samples get lost. If you observe no further output, everything is fine.

```
Reading samples in async mode...  
Allocating 15 zero-copy buffers  
Bus error
```

How do I keep this from happening?