

## OsmoGSMTester - Bug #2321

### osmo-gsm-tester: store properly coredump files when a process crashes

06/12/2017 12:35 PM - pespin

|                        |                 |                    |            |
|------------------------|-----------------|--------------------|------------|
| <b>Status:</b>         | Closed          | <b>Start date:</b> | 06/12/2017 |
| <b>Priority:</b>       | Normal          | <b>Due date:</b>   |            |
| <b>Assignee:</b>       | osmo-gsm-tester | <b>% Done:</b>     | 100%       |
| <b>Category:</b>       |                 |                    |            |
| <b>Target version:</b> |                 |                    |            |
| <b>Spec Reference:</b> |                 |                    |            |

#### Description

When a process crashes (both on main unit or on the BTS), we should be able to record the details and store the coredump in the run directory of the trial.

- Configure the main unit correctly (ulimit, etc.) to output the core dump in the run directory of the crashed process, together with its stderr and stdout files.
- Same for the BTs + scp it back to the trial directory in the main unit.
- Extra: Add python code to automatically open the dump file and print a backtrace + other interesting stuff.

This can be tested apparently by sending a SIGQUIT signal to a process:

<https://stackoverflow.com/questions/6561194/force-a-core-to-dump-from-an-active-normally-running-program-on-freebsd>

#### History

##### #1 - 06/12/2017 12:35 PM - pespin

- Subject changed from *osmo-gsm-tester: store properly coredump files when a process crash* to *osmo-gsm-tester: store properly coredump files when a process crashes*

##### #2 - 06/13/2017 10:55 PM - neels

- Related to Bug #2325: *sporadic shutdown of osmo-bts-trx in osmo-gsm-tester runs (no clock from trx) added*

##### #3 - 06/13/2017 10:56 PM - neels

I remember to have seen a core file in a result tarball before, so I assumed this would work; (except for the sysmobts, where we simply don't have code to copy a core file back to the workspace yet.)

##### #4 - 06/14/2017 12:41 AM - neels

The recent "crash" of osmo-bts-trx that made us question the working core dumps is actually an intentional shutdown by osmo-bts-trx (see [#2325](#)) and is not expected to produce a core dump. Anyway, it can't hurt to verify that core dumps are working as intended.

##### #5 - 06/14/2017 12:41 AM - neels

- Related to *deleted (Bug #2325: sporadic shutdown of osmo-bts-trx in osmo-gsm-tester runs (no clock from trx))*

##### #6 - 08/28/2017 10:17 AM - pespin

- Status changed from *New* to *Resolved*

- % Done changed from *0* to *100*

I verified that crash dumps are working correctly. I added some bits to osmo-gsm-tester manuals which were missing.

I had a brief look at automatically dumping the backtrace with gdb but doesn't seem to have high priority as anyway we have all binaries available in the tar.gz and can be easily debugged at any time.

##### #7 - 10/11/2017 02:54 AM - laforge

- Status changed from *Resolved* to *Closed*