

# CoreLiza



Post Mortem Debugging

# CoreLiza



- ✓ A New Type of CoreFile **Analyzer**
- ✓ Errors in CoreFile Analysis  
A Thing of the PAST
- ✓ Auto - Correlation of CoreFile ,  
Executables and Libraries

# CoreLiza



Post Mortem Debugging

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- ✓ Automatic Release Detection
- ✓ No Errors Possible
- ✓ Simply upload the core file

## Analysis Result



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Corefile	Reason	IP	Thread	Note	Debugger	File
Summary	Information	NA	NA	Uploaded Files		txt
<a href="#">5a17e8cfb0c5b_core</a>	SIGFPE		Unknown	Analysis	<a href="#">gdb</a>	txt

This File: [/data/coreliza/demo/data/work/11B8A7B6/work/281E0599/core\\_analysis.txt](#)

```
Analysing File : 5a17e8cfb0c5b_core
Version Found : REL1
Time now is : 2017.11.24-10:39:29
Analysis DONE.
```

### Core File Analysis

```
spawn gdb -x /data/coreliza/demo/script/.gdbinit tester
GNU gdb (Ubuntu 7.11.1-0ubuntu1~16.5) 7.11.1
Copyright (C) 2016 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later
This is free software; you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
```

- ✓ CoreLiza has all Information about the corefile
- ✓ All Analysis stored in a powerful database
- ✓ No Information lost

# CoreLiza



Text Search

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- ✓ Retrieves all Information
- ✓ Full Text Search
- ✓ All Analysis in Database

# Analysis Result



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Corefile	Reason	IP	Thread	Note	Debugger	File
5a17e8cfb0c5b core	SIGFPE		Unknown	FREE TEXT	gdb	txt

```
gs          0x0      0x0
(gdb) info sharedlibrary
From          To          Syms Read  Shared Object Library
0x00007f52a28719e0 0x00007f52a2871c21 Yes         libt1.so
0x00007f52a2659ab0 0x00007f52a2666811 Yes (*)     /data/coreliza/demo/data/scratch/1/1/libpthread.so.0-968df33f83963b559243653d74d27d89605bed02
0x00007f52a244e0e0 0x00007f52a2450ecf Yes (*)     /data/coreliza/demo/data/scratch/1/1/librt.so.1-fe41526a83999f2fe9d0f8aadcd61d03a92cbb70
0x00007f52a21557e0 0x00007f52a21fdd49 Yes (*)     /data/coreliza/demo/data/scratch/1/1/libstdc++.so.6-9e79d92950117355fd694e178c26ade013cae38b
0x00007f52a1dcb680 0x00007f52a1e378da Yes (*)     /data/coreliza/demo/data/scratch/1/1/libm.so.6-90da054e12ea1a53ee0cbb5bb5e65f7069ae44
0x00007f52a1bb1a90 0x00007f52a1bc1895 Yes (*)     /data/coreliza/demo/data/scratch/1/1/libgcc_s.so.1-036dae71a7197c847fc5b720634642b922c74398
0x00007f52a182f910 0x00007f52a1959403 Yes (*)     /data/coreliza/demo/data/scratch/1/1/libc.so.6-79450f6e36287865d093ea209b85a222209925ff
0x00007f52a2a74aa0 0x00007f52a2a90340 Yes (*)     /data/coreliza/demo/data/scratch/1/1/ld-linux-x86-64.so.2-6f150f33b150d6a81e26a425dd47d713d00f2d29
(*) : Shared library is missing debugging information.
(gdb) disassemble /r
Dump of assembler code for function nanosleep:
0x00007f52a18c8220 <+0>: 83 3d 19 65 2e 00 00  cmpl  $0x0,0x2e6519(%rip)      # 0x7f52a1bae740
0x00007f52a18c8227 <+7>: 75 10                jne   0x7f52a18c8239
0x00007f52a18c8229 <+9>: b8 23 00 00 00      mov   $0x23,%eax
0x00007f52a18c822e <+14>: 0f 05                syscall
0x00007f52a18c8230 <+16>: 48 3d 01 f0 ff ff    cmp   $0xffffffffffff001,%rax
0x00007f52a18c8236 <+22>: 73 31                jae   0x7f52a18c8269
0x00007f52a18c8238 <+24>: c3                   retq
0x00007f52a18c8239 <+25>: 48 83 ec 08         sub   $0x8,%rsp
```

- ✓ All Information about the crash
- ✓ At your fingertips

## CoreLiza



- ✓ Multiplatform Support
- ✓ Just need your toolchain
- ✓ Coreliza does the rest

## Release Upload

File  No file selected.

Release Name

Location URI

Operating System

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- ✓ **Interactive Debugger**
- ✓ **Interactive Debugging any time**

**CoreLiza**

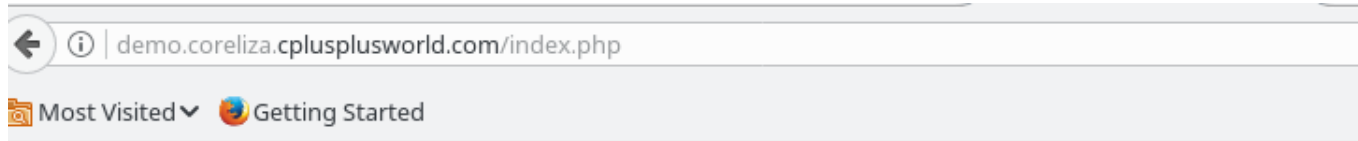


**Interactive Debugger**

```
rip          0x7f52a18c824d  0x7f52a18c824d <nanosleep+45>
eflags      0x293             [ CF AF SF IF ]
cs          0x33             0x33
ss          0x2b             0x2b
ds          0x0              0x0
es          0x0              0x0
fs          0x0              0x0
gs          0x0              0x0
(gdb) bt
#0  0x00007f52a18c824d in nanosleep ()
    from /data/coreliza/demo/data/scratch/1/1/libc.so.6-79450f6e36287865d093ea209b85a222209925ff
#1  0x00007f52a18f1bb4 in usleep ()
    from /data/coreliza/demo/data/scratch/1/1/libc.so.6-79450f6e36287865d093ea209b85a222209925ff
#2  0x000055d2a45840ca in main () at tester.c:404
#3  0x00007f52a18302b1 in __libc_start_main ()
    from /data/coreliza/demo/data/scratch/1/1/libc.so.6-79450f6e36287865d093ea209b85a222209925ff
#4  0x000055d2a458411a in _start ()
(gdb) □
```



- ✓ **CoreLiza WEB Based**
- ✓ **Accessible on the WWW**



# CoreLiza



## Post Mortem Debugging

No file selected.

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# Try Your Demo On

<http://www.cplusplusworld.com/products/coreliza/demo.html>

Demo User ID: *demoliza*

Demo passwd: *debug*