

Packages - Bug #3017

[sagemath] Unhandled SIGABRT when using solve_mod

2021-04-26 09:35 AM - theova

Status:	fixed	% Done:	0%
Priority:	bug		
Assignee:	bill-auger		
Category:			
Description			
Hello			
I'm using sagemath. Before I updated my system yesterday, everything was fine and smooth. Now, when I do			
sage			
<pre>SageMath version 9.2, Release Date: 2020-10-24 Using Python 3.9.4. Type "help()" for help.</pre>			
sage: T=var('T'); solve_mod(T == 3, 9)			
I get the following error:			
sig_error() without sig_on()			

/usr/lib/python3.9/site-packages/cysignals/signals.cpython-39-x86_64-linux-gnu.so (+0x774d) [0x7f9a7e03974d]			
/usr/lib/python3.9/site-packages/cysignals/signals.cpython-39-x86_64-linux-gnu.so (+0x780c) [0x7f9a7e03980c]			
/usr/lib/python3.9/site-packages/cysignals/signals.cpython-39-x86_64-linux-gnu.so (+0xa946) [0x7f9a7e03c946]			
/usr/lib/libc.so.6 (+0x3cf80) [0x7f9a80fa1f80]			
/usr/lib/libc.so.6 (kill+0xb) [0x7f9a80fa21fb]			
/usr/lib/python3.9/site-packages/sage/ext/memory.cpython-39-x86_64-linux-gnu.so (+0x3273) [0x7f9a76caa273]			
/usr/lib/python3.9/site-packages/sage/ext/memory.cpython-39-x86_64-linux-gnu.so (+0x3490) [0x7f9a76caa490]			
/usr/lib/libgmp.so.10 (__gmp_tmp_reentrant_alloc+0x19) [0x7f9a7e2f6fa9]			
/usr/lib/libgmp.so.10 (__gmpz_n_pow_ui+0x7af) [0x7f9a7e3091df]			
/usr/lib/libpolys-4.2.0.so (_Z11nrnInitCharP9n_Procs_sPv+0xc2) [0x7f9769d92cb2]			
/usr/lib/libpolys-4.2.0.so (_Z9nInitChar11n_coeffTypePv+0x343) [0x7f9769d8b3d3]			
/usr/lib/python3.9/site-packages/sage/libs/singular/ring.cpython-39-x86_64-linux-gnu.so (+0x153c6) [0x7f976974a3c6]			
/usr/lib/python3.9/site-packages/sage/rings/polynomial/multi_polynomial_libsingular.cpython-39-x86_64-linux-gnu.so (+0x25396) [0x7f976a254396]			
/usr/lib/libpython3.9.so.1.0 (_PyObject_MakeTpCall+0x38b) [0x7f9a812655fb]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalFrameDefault+0x4b21) [0x7f9a81260941]			
/usr/lib/libpython3.9.so.1.0 (+0x128cbd) [0x7f9a8125acbd]			
/usr/lib/libpython3.9.so.1.0 (_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalFrameDefault+0x2c9e) [0x7f9a8125eabe]			
/usr/lib/libpython3.9.so.1.0 (+0x1294df) [0x7f9a8125b4df]			
/usr/lib/libpython3.9.so.1.0 (_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalFrameDefault+0x3c6) [0x7f9a8125c1e6]			
/usr/lib/libpython3.9.so.1.0 (+0x1294df) [0x7f9a8125b4df]			
/usr/lib/libpython3.9.so.1.0 (_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalFrameDefault+0x3c6) [0x7f9a8125c1e6]			
/usr/lib/libpython3.9.so.1.0 (+0x1294df) [0x7f9a8125b4df]			
/usr/lib/libpython3.9.so.1.0 (_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalFrameDefault+0x3c6) [0x7f9a8125c1e6]			
/usr/lib/libpython3.9.so.1.0 (+0x128cbd) [0x7f9a8125acbd]			
/usr/lib/libpython3.9.so.1.0 (_PyEval_EvalCodeWithName+0x51) [0x7f9a8125a681]			
/usr/lib/libpython3.9.so.1.0 (PyEval_EvalCode+0x23) [0x7f9a8131e593]			

```
/usr/lib/libpython3.9.so.1.0(+0x1f385d) [0x7f9a8132585d]
/usr/lib/libpython3.9.so.1.0(+0x13bc31) [0x7f9a8126dc31]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x3c6) [0x7f9a8125c1e6]
/usr/lib/libpython3.9.so.1.0(+0x16b5d6) [0x7f9a8129d5d6]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5004) [0x7f9a81260e24]
/usr/lib/libpython3.9.so.1.0(+0x16b5d6) [0x7f9a8129d5d6]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5004) [0x7f9a81260e24]
/usr/lib/libpython3.9.so.1.0(+0x16b5d6) [0x7f9a8129d5d6]
/usr/lib/libpython3.9.so.1.0(+0x1492d9) [0x7f9a8127b2d9]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5fa) [0x7f9a8125c41a]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x1aa) [0x7f9a8126d25a]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x3c6) [0x7f9a8125c1e6]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x1aa) [0x7f9a8126d25a]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5fa) [0x7f9a8125c41a]
/usr/lib/libpython3.9.so.1.0(+0x128cbd) [0x7f9a8125acbd]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]
/usr/lib/libpython3.9.so.1.0(+0x14beb4) [0x7f9a8127deb4]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x1184) [0x7f9a8125cfa4]
/usr/lib/libpython3.9.so.1.0(+0x128cbd) [0x7f9a8125acbd]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5fa) [0x7f9a8125c41a]
/usr/lib/libpython3.9.so.1.0(+0x128cbd) [0x7f9a8125acbd]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x34e) [0x7f9a8126d3fe]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5fa) [0x7f9a8125c41a]
/usr/lib/libpython3.9.so.1.0(_PyFunction_Vectorcall+0x1aa) [0x7f9a8126d25a]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalFrameDefault+0x5fa) [0x7f9a8125c41a]
/usr/lib/libpython3.9.so.1.0(+0x128cbd) [0x7f9a8125acbd]
/usr/lib/libpython3.9.so.1.0(_PyEval_EvalCodeWithName+0x51) [0x7f9a8125a681]
/usr/lib/libpython3.9.so.1.0(PyEval_EvalCode+0x23) [0x7f9a8131e593]
/usr/lib/libpython3.9.so.1.0(+0x1fca4d) [0x7f9a8132ea4d]
/usr/lib/libpython3.9.so.1.0(+0x1f82eb) [0x7f9a8132a2eb]
/usr/lib/libpython3.9.so.1.0(+0x985bc) [0x7f9a811ca5bc]
/usr/lib/libpython3.9.so.1.0(PyRun_SimpleFileExFlags+0x388) [0x7f9a811c9970]
/usr/lib/libpython3.9.so.1.0(Py_RunMain+0x32a) [0x7f9a8134042a]
/usr/lib/libpython3.9.so.1.0(Py_BytesMain+0x39) [0x7f9a81311529]
/usr/lib/libc.so.6(__libc_start_main+0xd5) [0x7f9a80f8cb25]
/usr/bin/python(_start+0x2e) [0x55f38f40004e]
```

Attaching gdb to process id 2178.

GNU gdb (GDB) 10.1

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For help, type "help".

Type "apropos word" to search for commands related to "word".

[New LWP 2181]

0x00007f9a8103110f in wait4 () from /usr/lib/libc.so.6

Stack backtrace

No symbol table info available.

#1 0x00007f9a7e038fea in ?? ()

from /usr/lib/python3.9/site-packages/csignals/signals.cpython-39-x86_64-linux-gnu.so

No symbol table info available.

#2 0x00007f9a7e03984b in ?? ()

from /usr/lib/python3.9/site-packages/csignals/signals.cpython-39-x86_64-linux-gnu.so

No symbol table info available.

#3 0x00007f9a7e03c946 in ?? ()

```

    from /usr/lib/python3.9/site-packages/cysignals/signals.cpython-39-x86_64-linux-gnu.so
No symbol table info available.
#4 <signal handler called>
No symbol table info available.
#5 0x00007f9a80fa21fb in kill () from /usr/lib/libc.so.6
No symbol table info available.
#6 0x00007f9a76caa273 in ?? ()
    from /usr/lib/python3.9/site-packages/sage/ext/memory.cpython-39-x86_64-linux-gnu.so
No symbol table info available.
#7 0x00007f9a76caa490 in ?? ()
    from /usr/lib/python3.9/site-packages/sage/ext/memory.cpython-39-x86_64-linux-gnu.so
No symbol table info available.
#8 0x00007f9a7e2f6fa9 in __gmp_tmp_reentrant_alloc ()
    from /usr/lib/libgmp.so.10
No symbol table info available.
#9 0x00007f9a7e3091df in __gmpz_n_pow_ui () from /usr/lib/libgmp.so.10
No symbol table info available.
#10 0x00007f9769d92cb2 in nrnInitChar(n_Procs_s*, void*) ()
    from /usr/lib/libpolys-4.2.0.so
No symbol table info available.
#11 0x00007f9769d8b3d3 in nInitChar(n_coeffType, void*) ()
    from /usr/lib/libpolys-4.2.0.so
No symbol table info available.
#12 0x00007f976974a3c6 in ?? ()
    from /usr/lib/python3.9/site-packages/sage/libs/singular/ring.cpython-39-x86_64-linux-gnu.so
No symbol table info available.
#13 0x00007f976a254396 in ?? ()
    from /usr/lib/python3.9/site-packages/sage/rings/polynomial/multi_polynomial_libsingular.cpython-39-x86_64-linux-gnu.so
No symbol table info available.
#14 0x00007f9a812655fb in _PyObject_MakeTpCall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#15 0x00007f9a81260941 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#16 0x00007f9a8125acbd in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#17 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#18 0x00007f9a8125eabe in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#19 0x00007f9a8125b4df in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#20 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#21 0x00007f9a8125c1e6 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#22 0x00007f9a8125b4df in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#23 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#24 0x00007f9a8125c1e6 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#25 0x00007f9a8125b4df in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#26 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#27 0x00007f9a8125c1e6 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0

```

```
No symbol table info available.
#28 0x00007f9a8125acbd in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#29 0x00007f9a8125a681 in _PyEval_EvalCodeWithName ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#30 0x00007f9a8131e593 in PyEval_EvalCode () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#31 0x00007f9a8132585d in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#32 0x00007f9a8126dc31 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#33 0x00007f9a8125c1e6 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#34 0x00007f9a8129d5d6 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#35 0x00007f9a81260e24 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#36 0x00007f9a8129d5d6 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#37 0x00007f9a81260e24 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#38 0x00007f9a8129d5d6 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#39 0x00007f9a8127b2d9 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#40 0x00007f9a8125c41a in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#41 0x00007f9a8126d25a in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#42 0x00007f9a8125c1e6 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#43 0x00007f9a8126d25a in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#44 0x00007f9a8125c41a in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#45 0x00007f9a8125acbd in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#46 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#47 0x00007f9a8127deb4 in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#48 0x00007f9a8125cfa4 in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#49 0x00007f9a8125acbd in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#50 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#51 0x00007f9a8125c41a in _PyEval_EvalFrameDefault ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#52 0x00007f9a8125acbd in ?? () from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
#53 0x00007f9a8126d3fe in _PyFunction_Vectorcall ()
    from /usr/lib/libpython3.9.so.1.0
No symbol table info available.
```



```
#30 0x00007f9a8131e570 in PyEval_EvalCode ()
#31 0x0000000000000000 in ?? ()
#32 0x0000000000000000 in ?? ()
#33 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#34 0x0000000000000000 in ?? ()
#35 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#36 0x0000000000000000 in ?? ()
#37 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#38 0x0000000000000000 in ?? ()
#39 0x0000000000000000 in ?? ()
#40 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#41 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#42 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#43 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#44 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#45 0x0000000000000000 in ?? ()
#46 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#47 0x0000000000000000 in ?? ()
#48 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#49 0x0000000000000000 in ?? ()
#50 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#51 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#52 0x0000000000000000 in ?? ()
#53 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#54 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#55 0x00007f9a8126d0b0 in _PyFunction_Vectorcall ()
#56 0x00007f9a8125be20 in _PyEval_EvalFrameDefault ()
#57 0x0000000000000000 in ?? ()
#58 0x00007f9a8125a630 in _PyEval_EvalCodeWithName ()
#59 0x00007f9a8131e570 in PyEval_EvalCode ()
#60 0x0000000000000000 in ?? ()
#61 0x0000000000000000 in ?? ()
#62 0x0000000000000000 in ?? ()
#63 0x00007f9a811c95e8 in PyRun_SimpleFileExFlags ()
#64 0x00007f9a81340100 in Py_RunMain ()
#65 0x00007f9a813114f0 in Py_BytesMain ()
#66 0x00007f9a80f8ca50 in __libc_start_main ()
#67 0x000055f38f400020 in _start ()
```

```
[Inferior 1 (process 2178) detached]
Error while reading shared library symbols for /usr/lib/libpthread.so.0:
Cannot find user-level thread for LWP 2181: generic error
Saved trace to /home/theo/cysignals_crash_logs/crash_0khlrwtm.log
```

```
-----
Unhandled SIGABRT: An abort() occurred.
This probably occurred because a *compiled* module has a bug
in it and is not properly wrapped with sig_on(), sig_off().
Python will now terminate.
```

```
-----
[1] 2178 abort (core dumped) sage
```

I tried to find the source of the problem, but I could not find it. Is it a Python problem? A Cython problem? Or even something in the kernel (running linux-libre 5.10.27-gnu-1-lts)?

I'm also not sure, whether this is the correct place to ask for help. Should I ask the sage people directly?

As always, please tell me if I can provide more informations.

Thank you for your help!

History

#1 - 2021-04-26 10:56 PM - bill-auger

- Status changed from unconfirmed to confirmed

the bug exists in arch

#2 - 2021-04-26 10:58 PM - bill-auger

- *Status changed from confirmed to forwarded upstream*

#3 - 2021-04-27 06:43 AM - theova

Thanks for forwarding, it got fixed by now.

#4 - 2021-04-27 02:44 PM - bill-auger

its not fixed for parabola yet though - the fix is in v9.2-17 -
sometime today it should propagate across the parabola mirrors

#5 - 2021-05-01 12:49 AM - bill-auger

- *Assignee set to bill-auger*

#6 - 2021-05-01 12:49 AM - bill-auger

- *Status changed from forwarded upstream to fixed*