

Ruby - Bug #5433

Bug # 5076 (Closed): Mac OS X Lion Support

PTY.spawn Kernel panic on macos lion

10/11/2011 05:58 AM - argami (Gamaliel Toro)

Status:	Third Party's Issue	
Priority:	Normal	
Assignee:	mrkn (Kenta Murata)	
Target version:		
ruby -v:	ruby-1.9.2	Backport:
Description		
If you execute a PTY.spawn with a non existing command give a kernel panic.		
Example		
require 'pty' PTY.spawn('nonexistent-command')		

History

#1 - 10/11/2011 06:17 AM - argami (Gamaliel Toro)

Just happen in 1.9.2 in 1.9.3-head its ok

#2 - 10/11/2011 06:48 AM - drbrain (Eric Hodel)

On Ruby 1.9.2-p290 compiled with GCC (not LLVM-GCC) OS X 10.7.1 panics when I run your command.

#3 - 10/11/2011 05:41 PM - mrkn (Kenta Murata)

- Assignee set to mrkn (Kenta Murata)

#4 - 10/11/2011 05:42 PM - sorah (Sorah Fukumori)

Any kernel panic logs?

#5 - 10/11/2011 05:43 PM - mrkn (Kenta Murata)

Gamaliel, please give us the precise information of "ruby -v".
Moreover, please tell us what compiler you use for compiling your ruby.

#6 - 10/11/2011 05:44 PM - mrkn (Kenta Murata)

- Status changed from Open to Feedback

#7 - 10/11/2011 07:47 PM - argami (Gamaliel Toro)

ok in this 2 i have the issue

ruby 1.9.2p312 (2011-08-11 revision 32926) [x86_64-darwin11.0.1]

ruby 1.9.2p180 (2011-02-18 revision 30909) [x86_64-darwin11.0.1]

Both installed with RVM compiler is gcc-4.2

here is the log:

Interval Since Last Panic Report: 11524 sec

Panics Since Last Report: 9

Anonymous UUID: 5F78A6A5-B768-4FE6-B6B3-CE638B44C1F2

Tue Oct 11 12:49:18 2011

panic(cpu 2 caller 0xfffff8000328b22): "Negative open count?"@/SourceCache/xnu/xnu-1699.23.4/bsd/miscfs/specfs/spec_vnops.c:1368

Backtrace (CPU 2), Frame : Return Address

0xfffff80b03f3c10 : 0xfffff8000220702

0xfffff80b03f3c90 : 0xfffff8000328b22

0xfffff80b03f3cd0 : 0xfffff800032c8c5

0xfffff80b03f3d20 : 0xfffff8000318f24

0xfffff80b03f3d60 : 0xfffff80002fd1da

0xffffffff80b03f3db0 : 0xffffffff80002fcde
0xffffffff80b03f3df0 : 0xffffffff80002fe401
0xffffffff80b03f3e20 : 0xffffffff8000316a4f
0xffffffff80b03f3e50 : 0xffffffff8000540e29
0xffffffff80b03f3ec0 : 0xffffffff800023b9db
0xffffffff80b03f3ef0 : 0xffffffff800023beda
0xffffffff80b03f3f20 : 0xffffffff800023bf70
0xffffffff80b03f3f50 : 0xffffffff800021e0ce
0xffffffff80b03f3f90 : 0xffffffff80002c1caa
0xffffffff80b03f3fb0 : 0xffffffff80002d7a0c

BSD process name corresponding to current thread: ruby

Mac OS version:
11B2118

Kernel version:
Darwin Kernel Version 11.0.1: Thu Jul 28 02:01:39 PDT 2011; root:xnu-1699.23.4~1/RELEASE_X86_64
Kernel UUID: 87D5C6BC-A017-3A47-ACE0-215AB85ACC2A
System model name: MacBookAir4,1 (Mac-C08A6BB70A942AC2)

System uptime in nanoseconds: 7159081099713
last loaded kext at 5971573891126: com.apple.iokit.SCSITaskUserClient 3.0.0 (addr 0xffffffff7f80851000, size 36864)
last unloaded kext at 6067203917013: com.apple.driver.AppleUSBCDC 4.1.15 (addr 0xffffffff7f80802000, size 12288)
loaded kexts:
com.apple.filesystems.smbfs 1.7.0
com.apple.driver.AppleHWSensor 1.9.4d0
com.apple.filesystems.autofs 3.0
com.apple.driver.AppleMikeyHIDDriver 122
com.apple.driver.AppleUpstreamUserClient 3.5.9
com.apple.driver.AppleMCCSControl 1.0.24
com.apple.driver.AppleHDA 2.1.2f23
com.apple.driver.AppleMikeyDriver 2.1.2f23
com.apple.driver.AppleIntelHDGraphics 7.0.6
com.apple.driver.ApplePlatformEnabler 2.0.4d2
com.apple.driver.AGPM 100.12.41
com.apple.driver.AudioAUUC 1.59
com.apple.iokit.IOUserEthernet 1.0.0d1
com.apple.Dont_Steal_Mac_OS_X 7.0.0
com.apple.driver.AudioIPCDriver 1.2.0
com.apple.driver.ACPI_SMC_PlatformPlugin 4.7.5d4
com.apple.driver.AppleLPC 1.5.3
com.apple.driver.AppleBacklight 170.1.9
com.apple.driver.AppleIntelSNBGraphicsFB 7.0.6
com.apple.driver.AppleSMCLMU 2.0.1d2
com.apple.driver.AppleUSBTCTButtons 225.2
com.apple.driver.AppleUSBTCTKeyboard 225.2
com.apple.AppleFSCompression.AppleFSCompressionTypeDataless 1.0.0d1
com.apple.AppleFSCompression.AppleFSCompressionTypeZlib 1.0.0d1
com.apple.BootCache 32
com.apple.iokit.IOAHCIBlockStorage 2.0.0
com.apple.driver.AppleUSBHub 4.4.5
com.apple.driver.AirPort.Brcm4331 511.20.10
com.apple.driver.AppleEFINVRAM 1.5.0
com.apple.driver.AppleSmartBatteryManager 161.0.0
com.apple.driver.AppleAHCIPort 2.1.9
com.apple.driver.AppleUSBEGHCI 4.4.5
com.apple.driver.AppleACPIButtons 1.4
com.apple.driver.AppleRTC 1.4
com.apple.driver.AppleHPET 1.6
com.apple.driver.AppleSMBIOS 1.7
com.apple.driver.AppleACPIEC 1.4
com.apple.driver.AppleAPIC 1.5
com.apple.driver.AppleIntelCPUPowerManagementClient 166.0.0
com.apple.nke.applicationfirewall 3.0.30
com.apple.security.quarantine 1
com.apple.driver.AppleIntelCPUPowerManagement 166.0.0
com.apple.iokit.IOCSIBlockCommandsDevice 3.0.0
com.apple.iokit.IOUSBMassStorageClass 3.0.0
com.apple.kext.triggers 1.0
com.apple.iokit.IOCSIArchitectureModelFamily 3.0.0
com.apple.driver.DspFuncLib 2.1.2f23
com.apple.driver.AppleAVBAudio 1.0.0d11
com.apple.driver.AppleSMBusController 1.0.10d0
com.apple.iokit.IOSurface 80.0

com.apple.iokit.IOBluetoothSerialManager 4.0f4
com.apple.iokit.IOSerialFamily 10.0.5
com.apple.iokit.IOAVBFamily 1.0.0d22
com.apple.iokit.IOEthernetAVBController 1.0.0d5
com.apple.iokit.IOAudioFamily 1.8.3fc11
com.apple.kext.OSvKernDSPLib 1.3
com.apple.driver.AppleHDAController 2.1.2f23
com.apple.iokit.IOHDAFamily 2.1.2f23
com.apple.driver.IOPPlatformPluginFamily 4.7.5d4
com.apple.driver.AppleSMBusPCI 1.0.10d0
com.apple.driver.AppleBacklightExpert 1.0.3
com.apple.iokit.IONDRVSupport 2.3
com.apple.driver.AppleSMC 3.1.1d2
com.apple.iokit.IOGraphicsFamily 2.3
com.apple.driver.AppleThunderboltDPInAdapter 1.3.5
com.apple.driver.AppleThunderboltDPAdapterFamily 1.3.5
com.apple.driver.AppleThunderboltPCIDownAdapter 1.1.6
com.apple.driver.BroadcomUSBBluetoothHCIController 4.0f4
com.apple.driver.AppleUSBBluetoothHCIController 4.0f4
com.apple.iokit.IOBluetoothFamily 4.0f4
com.apple.driver.AppleUSBMultitouch 225.4
com.apple.iokit.IOUSBHIDDriver 4.4.5
com.apple.driver.AppleUSBMergeNub 4.4.5
com.apple.driver.AppleUSBComposite 3.9.0
com.apple.driver.XsanFilter 403
com.apple.driver.AppleThunderboltNHI 1.2.6
com.apple.iokit.IOTThunderboltFamily 1.5.1
com.apple.iokit.IOUSBUserClient 4.4.5
com.apple.iokit.IO80211Family 410.1
com.apple.iokit.IONetworkingFamily 2.0
com.apple.iokit.IOAHCIFamily 2.0.6
com.apple.iokit.IOUSBFamily 4.4.5
com.apple.driver.AppleEFIRuntime 1.5.0
com.apple.iokit.IOHIDFamily 1.7.0
com.apple.iokit.IOSMBusFamily 1.1
com.apple.security.sandbox 165
com.apple.kext.AppleMatch 1.0.0d1
com.apple.security.TMSafetyNet 7
com.apple.driver.DiskImages 330
com.apple.iokit.IOStorageFamily 1.7
com.apple.driver.AppleKeyStore 28.18
com.apple.driver.AppleACPIPlatform 1.4
com.apple.iokit.IOPCIFamily 2.6.5
com.apple.iokit.IOACPIFamily 1.4
Model: MacBookAir4,1, BootROM MBA41.0077.B08, 2 processors, Intel Core i5, 1.6 GHz, 4 GB, SMC 1.74f1
Graphics: Intel HD Graphics 3000, Intel HD Graphics 3000, Built-In, 384 MB
Memory Module: BANK 0/DIMM0, 2 GB, DDR3, 1333 MHz, 0x80CE, 0x4D34373142353737334448302D4348392020
Memory Module: BANK 1/DIMM0, 2 GB, DDR3, 1333 MHz, 0x80CE, 0x4D34373142353737334448302D4348392020
AirPort: spairport_wireless_card_type_airport_extreme (0x14E4, 0xE9), Broadcom BCM43xx 1.0 (5.100.98.75.10)
Bluetooth: Version 4.0.0f4, 2 service, 18 devices, 1 incoming serial ports
Network Service: Wi-Fi, AirPort, en0
Serial ATA Device: APPLE SSD TS128C, 121,33 GB
USB Device: FaceTime Camera (Built-in), apple_vendor_id, 0x850a, 0xfa200000 / 3
USB Device: hub_device, 0x0424 (SMSC), 0x2513, 0xfa100000 / 2
USB Device: BRCM20702 Hub, 0x0a5c (Broadcom Corp.), 0x4500, 0xfa110000 / 5
USB Device: Bluetooth USB Host Controller, apple_vendor_id, 0x821f, 0xfa113000 / 7
USB Device: Apple Internal Keyboard / Trackpad, apple_vendor_id, 0x024a, 0xfa120000 / 4
USB Device: hub_device, 0x0424 (SMSC), 0x2513, 0xfd100000 / 2

#8 - 10/12/2011 05:50 PM - nobu (Nobuyoshi Nakada)

- Status changed from Feedback to Third Party's Issue

Obviously, kernel bug.

#9 - 10/12/2011 08:51 PM - kosaki (Motohiro KOSAKI)

Obviously, kernel bug.

Even if so, we need workaround. isn't it?

#10 - 10/12/2011 09:09 PM - shyouhei (Shyouhei Urabe)

Motohiro KOSAKI wrote:

Obviously, kernel bug.

Even if so, we need workaround. isn't it?

It is an Apple's fault.

The first thing to be done is to blame Apple, not to report here.

You are a customer of Apple, not us.

However if you are not a customer but an employee of Apple, and you insist us to give a workaround, we can. If it is the case please give us a more detailed background of how to achieve it.

#11 - 10/12/2011 10:20 PM - argami (Gamaliel Toro)

So i have a question if is kernel bug why give a kernel error in 1.9.2 and not 1.9.3 or 1.8.7.

#12 - 10/12/2011 10:41 PM - shyouhei (Shyouhei Urabe)

@argami_toro It seems there may be some circumstances for Lion kernel to panic.

It is not always. 1.9.3 happen to hit that.

When Apple disclose that exact condition, we are possible to workaround.

#13 - 02/21/2012 10:32 AM - naruse (Yui NARUSE)

- Parent task set to #5076