

解决声卡在Fedora下无声 (505) linux终端中文乱码, smr (457) CLAPACK配置错误安装 (396) Linux添加环境变量与GC (320)

评论排行 VC中sizeof用法以及编译 (0)linux终端中文乱码, smr (0) 解决声卡在Fedora下无声 (0) Linux添加环境变量与GC (0) 在linux下设置开机自动启 (0)CLAPACK配置错误安装 (0) 初学者简易 .vimrc 编写指 (0)HTTP协议与HTML表单 (0) [转]脱离图形界面,全命《 (0)Linux/Unix Display (0)

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- \* 搭建Ot界面的OpenCV开发环境
- \* OpenVPN的Linux内核版,鬼魅

```
/tmp/ccgVhMg3.s:336: Error: syntax error; found `(' but expected `,'
```

/tmp/ccgVhMg3.s:336: Error: junk at end of line: `(11)'

/tmp/ccgVhMg3.s:338: Error: operand out of range (000000000007ff8 not between 0 and 31)

/tmp/ccgVhMg3.s:338: Error: syntax error; found `(' but expected `,'

/tmp/ccgVhMg3.s:338: Error: junk at end of line: `(11)'

make[1]: \*\*\* [dgbtrf.o] Error 1

-O2: xeigtstz crash and has more "failures" than x86

NEP: Testing Nonsymmetric Eigenvalue Problem routines

./xeigtstz < nep.in > znep.out 2>&1

make[1]: \*\*\* [znep.out] Error 139

-O1: assembler errors:

gcc -DNO\_BLAS\_WRAP -O1 -c dgbtrf.c

/tmp/ccSTo2Vw.s: Assembler messages:

/tmp/ccSTo2Vw.s:248: Error: operand out of range (000000000007ff8 not between 0 and 31)

/tmp/ccSTo2Vw.s:248: Error: syntax error; found `(' but expected `,'

/tmp/ccSTo2Vw.s:248: Error: junk at end of line: `(9)'

/tmp/ccSTo2Vw.s:250: Error: operand out of range (000000000007ff8 not between 0 and 31)

/tmp/ccSTo2Vw.s:250: Error: syntax error; found `(' but expected `,'

/tmp/ccSTo2Vw.s:250: Error: junk at end of line: `(9)'

make[1]: \*\*\* [dgbtrf.o] Error 1

-O0: xeigtstz crash still however the "failures are more in line with FC6/gcc4.1.1:

./sgd.out: SXV drivers: 38 out of 5000 tests failed to pass the threshold

./csep.out: CST drivers: 1 out of 11664 tests failed to pass the threshold

./csep.out: CST: 1 out of 4662 tests failed to pass the threshold

./csep.out: CST: 1 out of 4662 tests failed to pass the threshold

./dgd.out: DXV drivers: 201 out of 5000 tests failed to pass the threshold

./dsep.out: DST: 1 out of 4662 tests failed to pass the threshold

./dsep.out: DST: 1 out of 4662 tests failed to pass the threshold

./dsep.out: DST drivers: 1 out of 14256 tests failed to pass the threshold

Here is the test failing with the seg fault

NEP: Testing Nonsymmetric Eigenvalue Problem routines

./xeigtstz < nep.in > znep.out 2>&1

make[1]: \*\*\* [znep.out] Error 139

### Two questions:

Any thoughts on the xeigtstz failure. It seg faults at start in zchkee.c, here is a gdb session for the crash: gdb xeigtstz -c core.22623

GNU gdb Red Hat Linux (6.0post-0.20040223.19.ydl.1rh)

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This GDB was configured as "ppc-yellowdog-linux-gnu"...Using host libthread\_db library

"/lib/tls/libthread db.so.1".

```
Core was generated by `./xeigtstz'.
Program terminated with signal 11, Segmentation fault.
Reading symbols from /lib/tls/libm.so.6...done.
Loaded symbols for /lib/tls/libm.so.6
Reading symbols from /lib/tls/libc.so.6...done.
Loaded symbols for /lib/tls/libc.so.6
Reading symbols from /lib/ld.so.1...done.
Loaded symbols for /lib/ld.so.1
#0 0x10000d64 in MAIN__ () at zchkee.c:78
78 {
(gdb)
And the second question:
Are the "failures" acceptable or is there additional work to do?
Thanks
Doug
DouglasD
      Posts: 2
      Joined: Wed Aug 12, 2009 4:03 pm
Top
Re: CLAPACK 3.2.1 xeigtstz fails
\hfill \square by admin » Thu Aug 13, 2009 11:44 am
Doug, the failures you see are fine, they are just numerical failures that we are aware of.
Regarding the crash of XEIGTSTZ, it is due to a stack size to small.
Try to do a
Code: Select all
      ulimit -s 65000
before running the testing
Let me know if it helps.
admin
      Site Admin
      Posts: 241
      Joined: Wed Dec 08, 2004 7:07 pm
Top
Re: CLAPACK 3.2.1 xeigtstz fails
by DouglasD » Thu Aug 13, 2009 2:11 pm
Thank you, that "fixed" the seg fault and the build.
```

Changing ulimit and rebuilding from scratch got a clean reference blas test and only these "failures" which you

said are expected:

./sgd.out: SXV drivers: 38 out of 5000 tests failed to pass the threshold

./zsep.out: ZST: 1 out of 4662 tests failed to pass the threshold

./csep.out: CST drivers: 1 out of 11664 tests failed to pass the threshold

./csep.out: CST: 1 out of 4662 tests failed to pass the threshold

./csep.out: CST: 1 out of 4662 tests failed to pass the threshold

./zgd.out: ZXV drivers: 24 out of 5000 tests failed to pass the threshold ./dgd.out: DXV drivers: 201 out of 5000 tests failed to pass the threshold

./dsep.out: DST: 1 out of 4662 tests failed to pass the threshold ./dsep.out: DST: 1 out of 4662 tests failed to pass the threshold

./dsep.out: DST drivers: 1 out of 14256 tests failed to pass the threshold

Is it worth going back and trying other optimzation levels. I know -O3 is out because the reference blas then report erroneous machine limits, but do you think it's worth trying the others? At what level do you begin to worry about the number of tests that fail to pass the threshold?

Thanks

Doug

### DouglasD

Posts: 2

Joined: Wed Aug 12, 2009 4:03 pm

### Top

# Re: CLAPACK 3.2.1 xeigtstz fails

D by admin » Thu Aug 13, 2009 2:18 pm

Is it worth going back and trying other optimization levels. I know -03 is out because the reference blas then report erroneous machine limits, but do you think it's worth trying the others? At what level do you begin to worry about the number of tests that fail to pass the threshold?

No the optimization level won't fix it.

But you should try to use a optimized BLAS library (ACML, MKL, GOTO, ATLAS etc...). Reference BLAS gives very poor performance.

### admin

Site Admin

**Posts:** 241

Joined: Wed Dec 08, 2004 7:07 pm

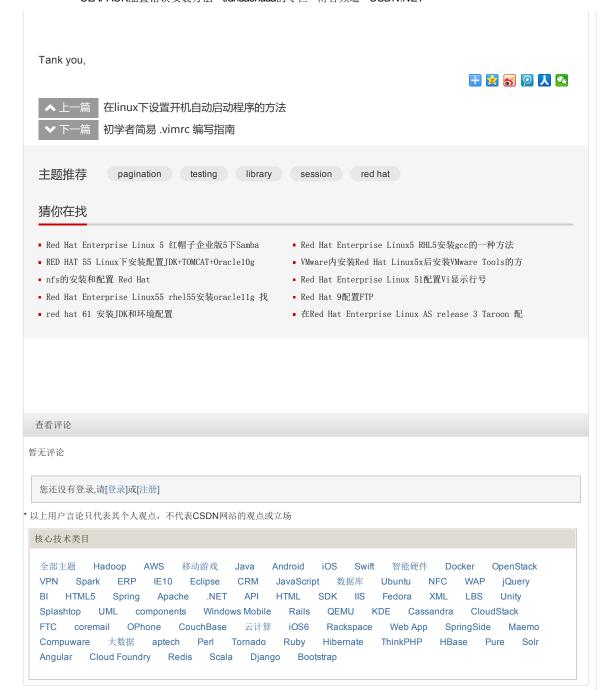
## Тор

### Re: CLAPACK 3.2.1 xeigtstz fails

🗅 by aaronsmith » Sat Dec 19, 2009 12:45 pm

Hi!

I am also see that the optimization level won't fix it. and it's right that Reference BLAS gives very poor performance.



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