

Segmentation Fault in StatInit()

Source: <http://sci.tech-archive.net/Archive/sci.math.num-analysis/2005-03/0324.html>

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I installed ARPACK++ (from here: <http://www.ime.unicamp.br/~chico/arpack++/>) and compiled it. After installing ARPACK and SuperLU packages, I tried compiling the examples in ARPACK++ packages.

When I try to run the examples after they compile, only `asymreg` runs successfully. But all others end with Segmentation Fault. I tried to run them in `gdb` and noticed that all of them segfault in a `"StatInit()"` function (see an example below).

Anybody have any idea what could be going wrong or even seen this before?

I am using `gcc 3.2`.

Thanks,

->HS

PS: Here is a `gdb` session for `"asymbkl"` program in `"examples/sym"` directory:

```
{sym}> gdb asymbkl
GNU gdb Red Hat Linux (5.2.1-4)
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This GDB was configured as "i386-redhat-linux"...
(gdb) r
Starting program:
/home/cirrus/hs/include/arpack++_chico/examples/areig/sym/asymbkl

Program received signal SIGSEGV, Segmentation fault.
0x08059766 in StatInit ()
(gdb) bt
#0 0x08059766 in StatInit ()
#1 0x0804d3be in ARluSymPencil<double>::FactorAsB(double) (this=0xbffffbd4,
```

sci.math.num-analysis: Segmentation Fault in StatInit()

```
sigma=1)
  at /home/cirrus/hs/include/arpack++/include/arlspen.h:407
#2 0x0804c6fc in ARluSymGenEig<double>::ChangeShift(double)
(this=0xbffffbd0,
sigma=1)
  at /home/cirrus/hs/include/arpack++/include/arlgsym.h:120
#3 0x0804ac26 in ARluSymGenEig (this=0xbffffbd0, InvertMode=66 'B',
nevp=4,
A=@0xbffffbe30, B=@0xbffffbd40, sigma=1,
  whichp=0x8086f61 "LM", ncvp=0, tolp=0, maxitp=0, residp=0x0,
ishiftp=true)
  at /home/cirrus/hs/include/arpack++/include/arlgsym.h:211
#4 0x0804a21c in int AREig<double>(double*, double*, int, int, double*,
int*,
int*, int, double*, int*, int*, char, char, double, int, char*, int, double,
int, double*, bool) (EigVal=0xbffffdf10, EigVec=0xbffffbc0, n=100, nnzA=199,
A=0x8091920,
  irowA=0x8091f60, pcolA=0x8092280, nnzB=199, B=0x8092418,
irowB=0x8092a58,
pcolB=0x8092d78, uplo=85 'U',
  InvertMode=66 'B', sigma=1, nev=4, which=0x8086f61 "LM", ncv=0, tol=0,
maxit=0, resid=0x0, AutoShift=true)
  at areig.h:1100
#5 0x08049c80 in main () at asymgbkl.cc:89
#6 0x420158d4 in __libc_start_main () from /lib/i686/libc.so.6
```

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