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Subject: dlopen error

Posted by [Ajay Kumar](#) on Mon, 23 Jan 2012 07:09:48 GMT

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Hi.

Now I installed pandaroot version whatever given by you still I am getting that dlopen error:-  
dlopen error: libPythia6.so: cannot open shared object file: No such file or directory  
Load Error: Failed to load Dynamic link library  
/home/physiclab4/fairsoft2/tools/root/lib/libEGPythia6.so

then i have added the following line

```
gSystem->Load("/home/physiclab4/fairsoft2/generator/lib/libPythia6.so") in the file  
run_sim_tpccombi.C
```

then that above error is not there. But I am getting the following error-

```
Processing run_sim_tpccombi.C...
```

```
Error: Symbol FairRunSim is not defined in current scope run_sim_tpccombi.C:14:
```

```
Error: Symbol FairRunSim is not defined in current scope run_sim_tpccombi.C:14:
```

```
Error: type FairRunSim not defined
```

```
FILE:/home/physiclab4/pandaroot3/tutorials/charmonium/jul10/./run_sim_tpccombi.C LINE:14
```

```
Warning: Automatic variable FairRunSim*fRun is allocated run_sim_tpccombi.C:14:
```

```
Error: Undeclared variable FairRunSim*fRun run_sim_tpccombi.C:14:
```

So where is the problem?

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Subject: Re: dlopen error

Posted by [Ralf Kliemt](#) on Mon, 23 Jan 2012 07:13:00 GMT

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Hello.

Just to make sure: Did you load the config.sh?

```
[yourpandabuilddir]>. config.sh
```

It contains the library paths to your pandaroot installation.

Cheers

Ralf

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Subject: Re: dlopen error

Posted by [Florian Uhlig](#) on Mon, 23 Jan 2012 08:40:37 GMT

Hi,

you probably have already checked if the Pythia library exist. If libPythia6.so is where you expect the library to be, please check if libEGPythia6.so expect the library at that location. This can be done on Linux using ldd

```
ldd /home/physiclab4/fairsoft2/tools/root/lib/libEGPythia6.so
```

on Mac OS use otool

```
otool -L /home/physiclab4/fairsoft2/tools/root/lib/libEGPythia6.so
```

The output looks like

```
linux-vdso.so.1 => (0x00007fff3d3ff000)
libPythia6.so => not found
libstdc++.so.6 => /usr/lib/libstdc++.so.6 (0x00007f884d032000)
libm.so.6 => /lib/libm.so.6 (0x00007f884cdaf000)
libgcc_s.so.1 => /lib/libgcc_s.so.1 (0x00007f884cb99000)
libc.so.6 => /lib/libc.so.6 (0x00007f884c838000)
/lib64/ld-linux-x86-64.so.2 (0x00007f884d598000)
```

You can get from this some info. First of all there are fixed libraries, e.g. the c library libc.so.6 which are expected at a defined location here in /lib and there are libraries as libPythia6.so which are not expected at a defined location. In our example libPythia6.so isn't found because I did not set the LD\_LIBRARY\_PATH. If I add the directory where the libPythia6.so is located to the LD\_LIBRARY\_PATH I get the following output as result of ldd

```
linux-vdso.so.1 => (0x00007fff09dff000)
libPythia6.so => /data.local1/fairsoft/fairsoft_may11/generators/lib/libPythia6.so
(0x00007fe69cd7a000)
libstdc++.so.6 => /usr/lib/libstdc++.so.6 (0x00007fe69ca4d000)
libm.so.6 => /lib/libm.so.6 (0x00007fe69c7ca000)
libgcc_s.so.1 => /lib/libgcc_s.so.1 (0x00007fe69c5b4000)
libc.so.6 => /lib/libc.so.6 (0x00007fe69c253000)
libgfortran.so.3 => /usr/lib/libgfortran.so.3 (0x00007fe69bf66000)
/lib64/ld-linux-x86-64.so.2 (0x00007fe69d684000)
```

Now the dynamic linker can find the library. Please check where the dynamic linker expect your libPythia6.so. I can imagine two problems. Either the directory where your libPythia6.so can be found isn't in the LD\_LIBRARY\_PATH, or you have a fixed location where to look for the library which is wrong.

Hope this helps to find the problem.

Ciao

Florian

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