

GammaLib - Bug #260

Ubuntu 12.04: can not locate the readline and ncurses libraries

06/30/2012 11:21 PM - Knödlseeder Jürgen

Status:	New	Start date:	06/30/2012
Priority:	Urgent	Due date:	
Assigned To:	Knödlseeder Jürgen	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Although the libraries are installed in the /lib/x86_64-linux-gnu folder, the configure step could not locate the libraries and thus disables the readline support.			
We should modify configure so that the libraries are correctly detected.			

History

#1 - 07/27/2017 12:35 PM - Knödlseeder Jürgen

- Assigned To set to Knödlseeder Jürgen
- Priority changed from Normal to Urgent
- Target version set to 1.4.0

In addition there are complaints about errors during the unit test. These seem to be related to not finding the cfitsio library.

On the CI Ubuntu 12.04 system the cfitsio library is installed into /usr/lib/x86_64-linux-gnu/libcfitsio.so. Testing for which directories are searched for gives the following:

```
$ cat /etc/ld.so.conf.d/*
# libc default configuration
/usr/local/lib
/usr/lib/vmware-tools/lib32/libvmGuestLib.so
/usr/lib/vmware-tools/lib64/libvmGuestLib.so
/usr/lib/vmware-tools/lib32/libvmGuestLibJava.so
/usr/lib/vmware-tools/lib64/libvmGuestLibJava.so
/usr/lib/vmware-tools/lib32/libDeployPkg.so
/usr/lib/vmware-tools/lib64/libDeployPkg.so
# Multiarch support
/lib/x86_64-linux-gnu
/usr/lib/x86_64-linux-gnu
/usr/lib/x86_64-linux-gnu/mesa
```

#2 - 07/27/2017 01:05 PM - Knödseder Jürgen

Trying to compile the following simple program

```
int main (int argc, char *argv[])
{
    // Initialise return code
    int rc = 1;

    // Return
    return rc;
}
```

on the Ubuntu 12.04 CI VM I get the following:

```
$ gcc main.cpp -lncurses
/usr/bin/ld: cannot find -lncurses
collect2: ld returned 1 exit status
$ gcc main.cpp -L/lib/x86_64-linux-gnu -lncurses
/usr/bin/ld: cannot find -lncurses
collect2: ld returned 1 exit status
$ gcc main.cpp -L/lib/x86_64-linux-gnu -lreadline
$ gcc main.cpp -L/lib/x86_64-linux-gnu -lcfitsio
```

So for some reason the ncurses library cannot be found, but the readline library can. Here what is in the /lib/x86_64-linux-gnu folder:

```
libreadline.so.6 -> libreadline.so.6.2
libreadline.so.6.2
libncurses.so.5 -> libncurses.so.5.9
libncurses.so.5.9
```

Note that this problem does not seem to occur on Ubuntu 16.

#3 - 07/27/2017 01:09 PM - Knödseder Jürgen

Note that at least on Ubuntu the ncurses library seems not to be needed:

```
$ ldd /lib/x86_64-linux-gnu/libreadline.so.6
linux-vdso.so.1 => (0x00007fff0dff0000)
libtinfo.so.5 => /lib/x86_64-linux-gnu/libtinfo.so.5 (0x00007ff24866e000)
libc.so.6 => /lib/x86_64-linux-gnu/libc.so.6 (0x00007ff2482af000)
/lib64/ld-linux-x86-64.so.2 (0x00007ff248ae9000)
```

But on my Mac I get

```
$ otool -L /usr/lib/libedit.3.dylib
/usr/lib/libedit.3.dylib:
/usr/lib/libedit.3.dylib (compatibility version 2.0.0, current version 3.0.0)
/usr/lib/libncurses.5.4.dylib (compatibility version 5.4.0, current version 5.4.0)
/usr/lib/libSystem.B.dylib (compatibility version 1.0.0, current version 1225.0.0)
```

#4 - 07/27/2017 01:19 PM - Knödseder Jürgen

- File config1.log added

- File config2.log added

Attached the configuration files for the two persons who reported problems on Ubuntu. In the first case the system is Ubuntu 12.04 with a 32 Bit architecture. In the second case the system is Ubuntu (probably 14.04) with a 64 Bit architecture. So the problem seems to occur invariably on both architectures.

#5 - 07/31/2017 11:06 PM - Knödseder Jürgen

- Target version changed from 1.4.0 to 1.5.0

#6 - 01/16/2018 12:41 PM - Knödseder Jürgen

- Target version deleted (1.5.0)

Files

config1.log	50.7 KB	07/27/2017	Knödseder Jürgen
config2.log	52.3 KB	07/27/2017	Knödseder Jürgen