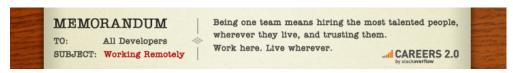
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is this a dynamic library linker issue

#include <stdio.h>

c linux dynamic linker libraries



I have some very simple C code I was trying to compile and link to try to understand how static and dynamic libraries work and also BFDs. The code snippet is below and my question beneath it.

```
#include <stdlib.h>
#include <string.h>
#include "bfd.h"
unsigned int number_of_sections(bfd *abfd)
  return bfd_count_sections(abfd);
int main (int argc, char *argv[])
  bfd *ibfd = NULL;
  unsigned int numSections = 0;
  if (argc < 2)
    {
      printf("Argc < 2\n");</pre>
       exit(EXIT_FAILURE);
    }
  else
      bfd_init();
      printf("filename = %s\n", argv[1]);
      ibfd = bfd_openr(argv[1], NULL);
      numSections = number_of_sections(ibfd);
      printf("num sections = %d\n", numSections);
  return 1;
}
The code to compile and link it is below, along with the error:
make -f makefile
\verb|gcc -L. -L/usr/lib64 -L/usr/bin -g -Wall -I. -I/usr/include -o getsections ./getse|\\
./libbfd.a(plugin.o): In function `try_load_plugin':
/home/abuild/rpmbuild/BUILD/binutils-2.23.1/build-dir/bfd/../../bfd/plugin.c:170:
/home/abuild/rpmbuild/BUILD/binutils-2.23.1/build-dir/bfd/../../bfd/plugin.c:177:
/home/abuild/rpmbuild/BUILD/binutils-2.23.1/build-dir/bfd/../../bfd/plugin.c:173:
collect2: error: ld returned 1 exit status
make: *** [build] Error 1
Compilation exited abnormally with code 2 at Thu Feb 27 16:26:12
I searched and searched and could not find the answer to what is most likely a very simple question, and I
apologize in advance for my ignorance!
```

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asked 23 hours ago

user1943660

11 2

edited 23 hours ago

18.2k 4 22 49

mah

- 1 Add the linker flag -1d1 ? Iwillnotexist Idonotexist 23 hours ago
- 1 Aren't you missing #include <dlfcn.h> ? Asblarf 23 hours ago

@Asblarf You don't have to include the header file for functions that you only call indirectly through another library. As another example, fopen calls open but you don't need to include unistd.h to call fopen. That seems to be the same case here with the dl* calls coming from bfd. – Wumpus Q. Wumbley 23 hours ago

add comment

1 Answer

Add -ldl after -lbfd to tell the linker where to find the missing functions.



Thank you all for responding! This was the problem. - user1943660 just now edit

add comment

Answer Your Question

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