

会员中心 📅 足迹 动态 消息

如何有选择的进行静态编译呢?

-Bstatic

-I:filename

参考资料

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日录

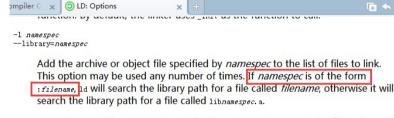
Do not link against shared libraries. This is only meaningful on platforms for which shared libraries are supported. The different variants of this option are for compatibility with various systems. You may use this option multiple times on the command line: it affects library searching for -1 options which follow it. This option also implies --unresolved-symbols=report-all. This option can be used with -shared. Doing so means that a shared library is being created but that all of the library's external references must be resolved by pulling in entries from static libraries.

大意就是-Bstatic参数指定对跟在它后面的所有库执行静态连接,如下就指定LDFLAGS对png这个库静态连接,ld会自动去搜索libpng.a

-Bstatic -lpng -l:

## -l:filename

如果你觉得上面一种静态连接方式不适合你,可以看看Id的官方手册《2.1 Command Line Options》中关于-1参数的说明,如下:



On systems which support shared libraries, 1d may also search for files other than libramespec. a. Specifically, on ELF and SunOS systems, 1d will search a directory for a library called libramespec. so before searching for one called libramespec. a. (By convention, a.so extension indicates a shared library.) Note that this behavior does not apply to :filename, which always specifies a file called filename.

The linker will search an archive only once, at the location where it is specified on the command line. If the archive defines a symbol which was undefined in some object which appeared before the archive on the command line, the linker will include the appropriate file(s) from the archive. However, an undefined symbol in an object appearing later on the command line will not cause the linker to search the archive again.

See the -( option for a way to force the linker to search archives multiple times.

You may list the same archive multiple times on the command line.

This type of archive searching is standard for Unix linkers. However, if you are using 14 on AIX, note that it is different from the behaviour of the AIX linker.

注意上面的说明中红框标注的内容,如果-1:filename格式指定一个文件名,连接程序直接去找这个文件名了,不会再像使用-lname 时将name扩展成lib<name>.a格式的文件名.

所以使用-1:libpng.a这样的形式来指定连接库,就指定了静态连接png库。

当然如果库的位置不在gcc默认搜索路径中,要用-I参数另外指定搜索库的路径,否则连接程序不知道该从哪里找到filename。

-L/your/library/path -l:libmylib.a

-L searchdir --library-path=searchdir

> Add path searchdir to the list of paths that 14 will search for archive libraries and 1d control scripts. You may use this option any number of times. The directories are searched in the order in which they are specified on the command line. Directories specified on the command line are searched before the default directories. All -L options apply to all -1 options, regardless of the order in which the options appear. -L options do not affect how 1d searches for a linker script unless -T option is specified.

If searchdir begins with = or \$SYSROOT, then this prefix will be replaced by the sysroot prefix, controlled by the '--sysroot' option, or specified when the linker is configured.

The default set of paths searched (without being specified with '-L' ) depends on which emulation mode 1d is using, and in some cases also on how it was configured. See Environment.

The paths can also be specified in a link script with the SEARCH\_DIR command. Directories specified this way are searched at the point in which the linker script appears in the command line.

以上内容只是我对最近做项目编译的一些总结和体会,可能会有所遗漏,权威资料还请参见gcc的官方文档

《3.14 Options for Linking》

《2.1 Command Line Options》

斃 文章知识点与官方知识档案匹配,可进一步学习相关知识

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## GCC 编译使用动态链接库和静态链接库的方法

根据<mark>链接</mark>时期的不同,库又有<mark>静态库</mark>和动态库之分,有别于<mark>静态库</mark>,动态库的链接是在程序执行的时候被链接的

makefile gcc优先链接静态库、指定链接静态库的几种方法

STCNXPARM的博客 ① 2万+

方法一: 简单粗暴 1、直接指定<mark>静态库</mark>全称 一般我们用-I来指定<mark>链接库</mark>,如果动态**库。静态库**都可以使用,会优先<mark>链接</mark>动态**库**,我们可以直接指定**静态库** 

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09-05

如何使用高版本gcc 静态链接 (gcc 7.2 如何静态链接...

find -name"libstdc++.a" 1 我的目录是这样的 /home/yutian/Downloads/gcc-7.2.0/stage1-x86 64-pc-linux-gnu/libstdc++-v3/src/.libs/libstdc++.a 1 生.

gcc静态链接问题 chy's tech-life

gcc静态链接问题 http://blog.zheezes.com/senior-gcc-compiler-link-parameters.html 摘要: 1.gcc可以设置一部分库用动态链接,同时另一部分库用静态链接...

GCC编译过程与动态链接库和静态链接库 最新发布

qq 36075612的博客 ① 2336

1. <mark>库</mark>的介绍 <mark>库</mark>是写好的现有的,成熟的,可以复用的代码。现实中每个程序都要依赖很多基础的底层<mark>库</mark>,不可能每个人的代码都从零开始,因此<mark>库</mark>的存在...

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