



# libusb Installation Instructions

## libusb Installation Instructions

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## 1 Introduction

libusb is a C library that gives applications easy access to USB devices on many different operating systems. This document covers the installation instructions of libusb.

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### 3 Installation Instructions

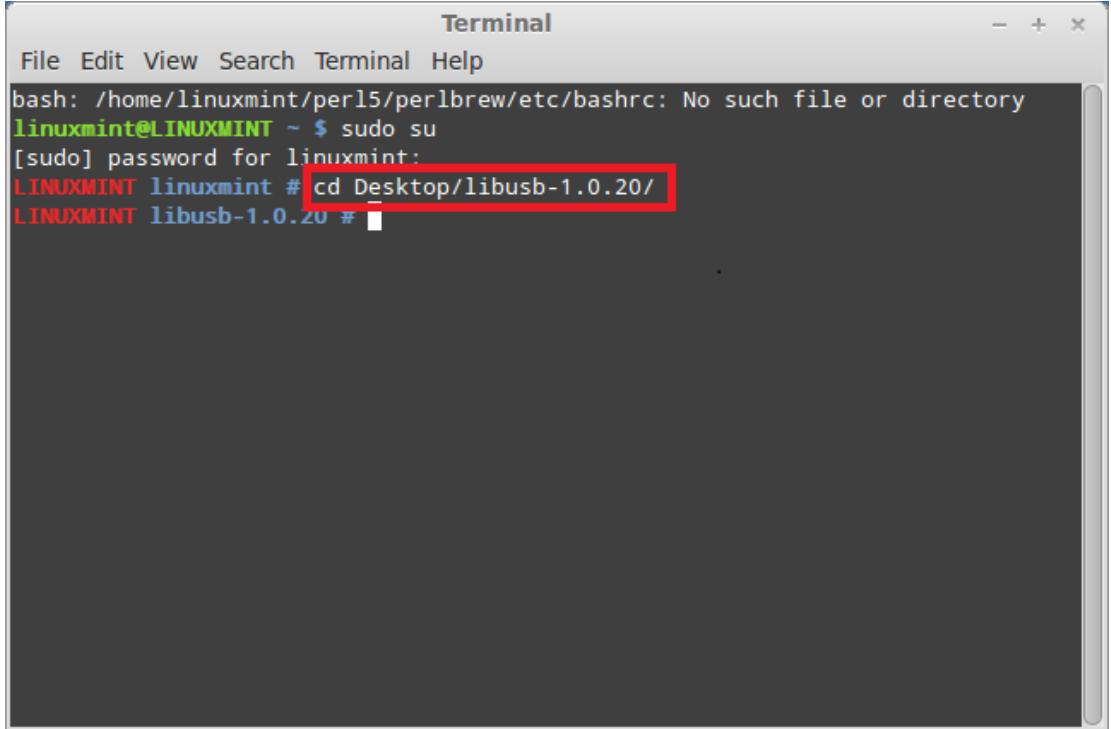
#### 3.1 *Package Download*

- Download the latest libusb from  
<http://sourceforge.net/projects/libusb/files/latest/download?source=files>

### 3.2 *Installation of Libusb*

To install the Libusb follow the below instructions

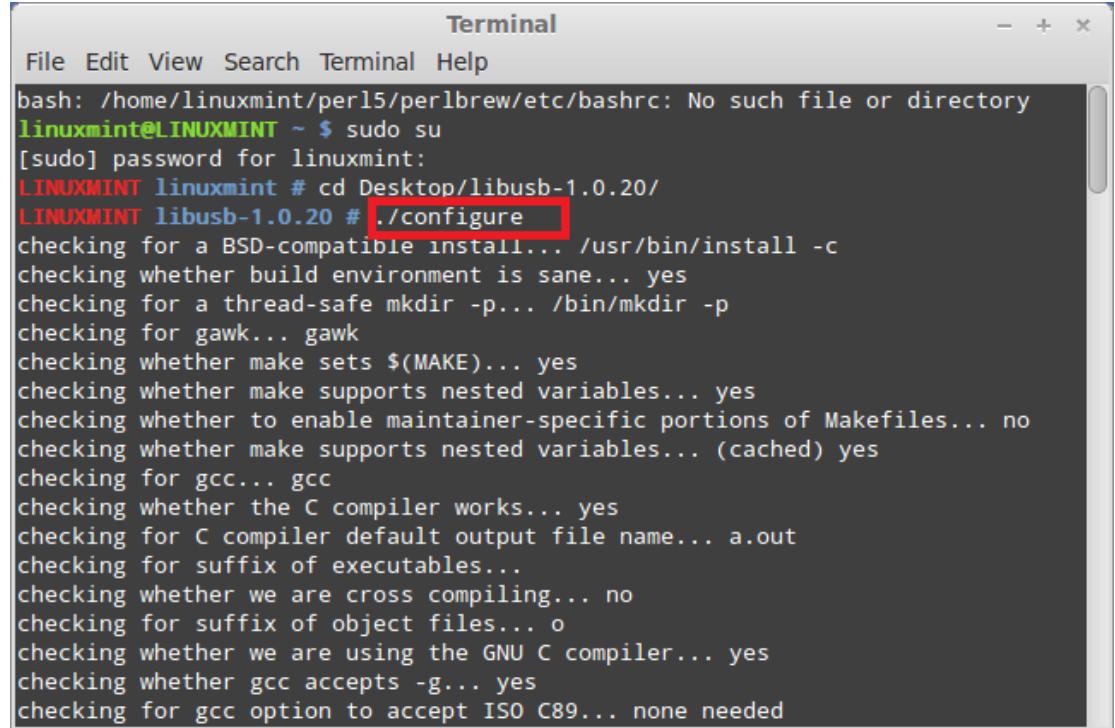
1. Untar the file using  
**tar -xvf libusb-1.0.20.tar.bz2**
2. Open terminal and navigate to appropriate directory



The screenshot shows a terminal window titled "Terminal". The window has a standard Linux desktop interface with a title bar and menu bar. The terminal itself displays a command-line session. The user has run "sudo su" to become root. The command "cd Desktop/libusb-1.0.20/" is shown, with the entire command line highlighted by a red rectangular box. The prompt "LINUXMINT libusb-1.0.20 # " is visible at the end of the line.

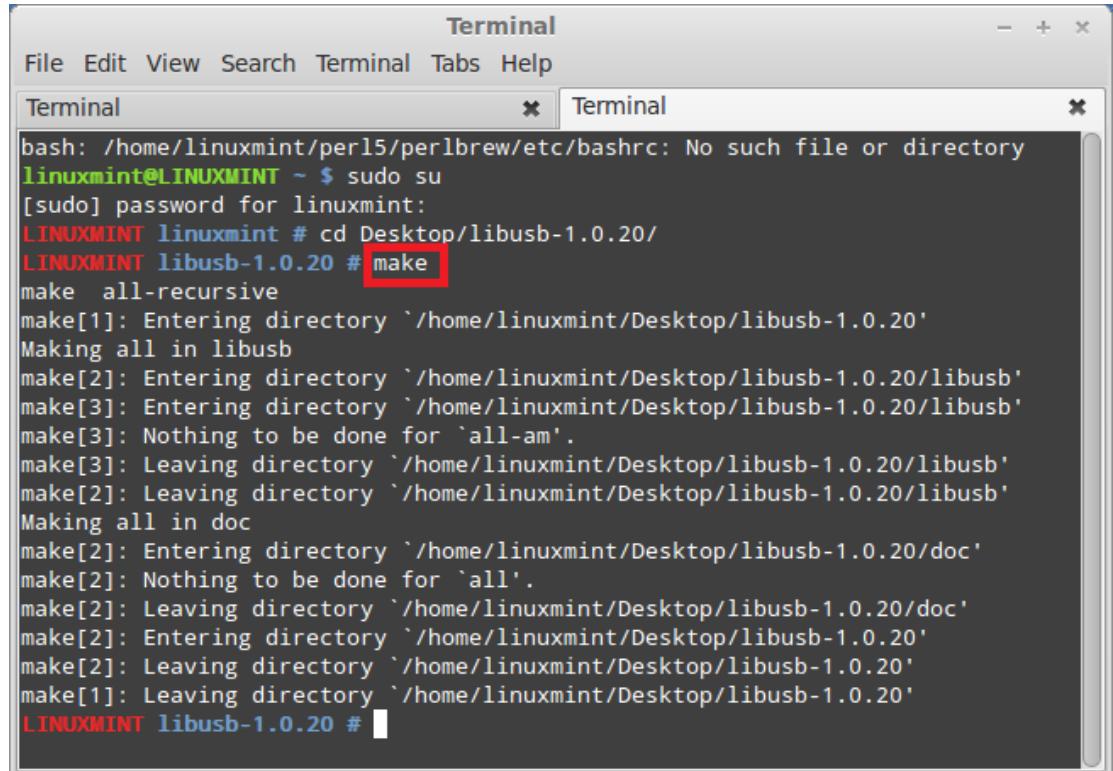
3. Run the following command configure command

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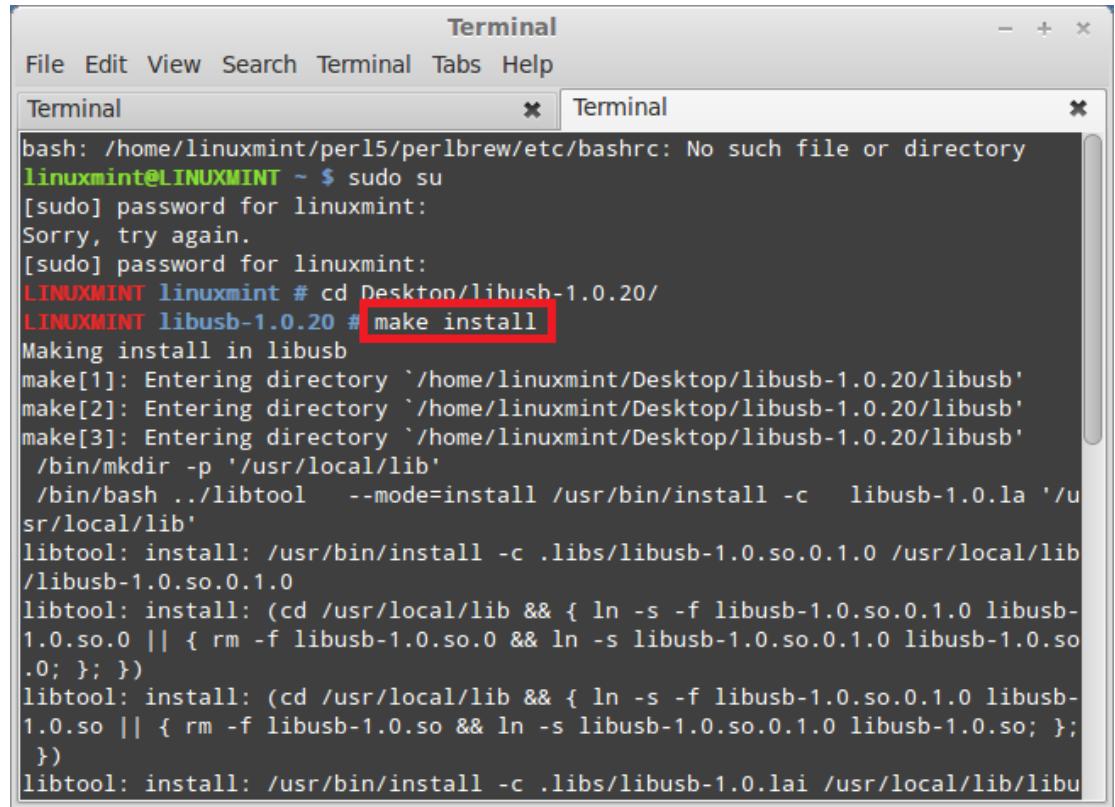
```
Terminal
File Edit View Search Terminal Help
bash: /home/linuxmint/perl5/perlbrew/etc/bashrc: No such file or directory
linuxmint@LINUXMINT ~ $ sudo su
[sudo] password for linuxmint:
LINUXMINT linuxmint # cd Desktop/libusb-1.0.20/
LINUXMINT libusb-1.0.20 # ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
checking for a thread-safe mkdir -p... /bin/mkdir -p
checking for gawk... gawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking whether to enable maintainer-specific portions of Makefiles... no
checking whether make supports nested variables... (cached) yes
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
```

#### 4. Run make command to build libusb



```
Terminal
File Edit View Search Terminal Tabs Help
Terminal Terminal
bash: /home/linuxmint/perl5/perlbrew/etc/bashrc: No such file or directory
linuxmint@LINUXMINT ~ $ sudo su
[sudo] password for linuxmint:
LINUXMINT linuxmint # cd Desktop/libusb-1.0.20/
LINUXMINT libusb-1.0.20 # make
make all-recurse
make[1]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20'
Making all in libusb
make[2]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
make[3]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
make[3]: Nothing to be done for `all-am'.
make[3]: Leaving directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
make[2]: Leaving directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
Making all in doc
make[2]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/doc'
make[2]: Nothing to be done for `all'.
make[2]: Leaving directory '/home/linuxmint/Desktop/libusb-1.0.20/doc'
make[2]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20'
make[2]: Leaving directory '/home/linuxmint/Desktop/libusb-1.0.20'
make[1]: Leaving directory '/home/linuxmint/Desktop/libusb-1.0.20'
LINUXMINT libusb-1.0.20 #
```

5. Install LibUsb using **make install** command

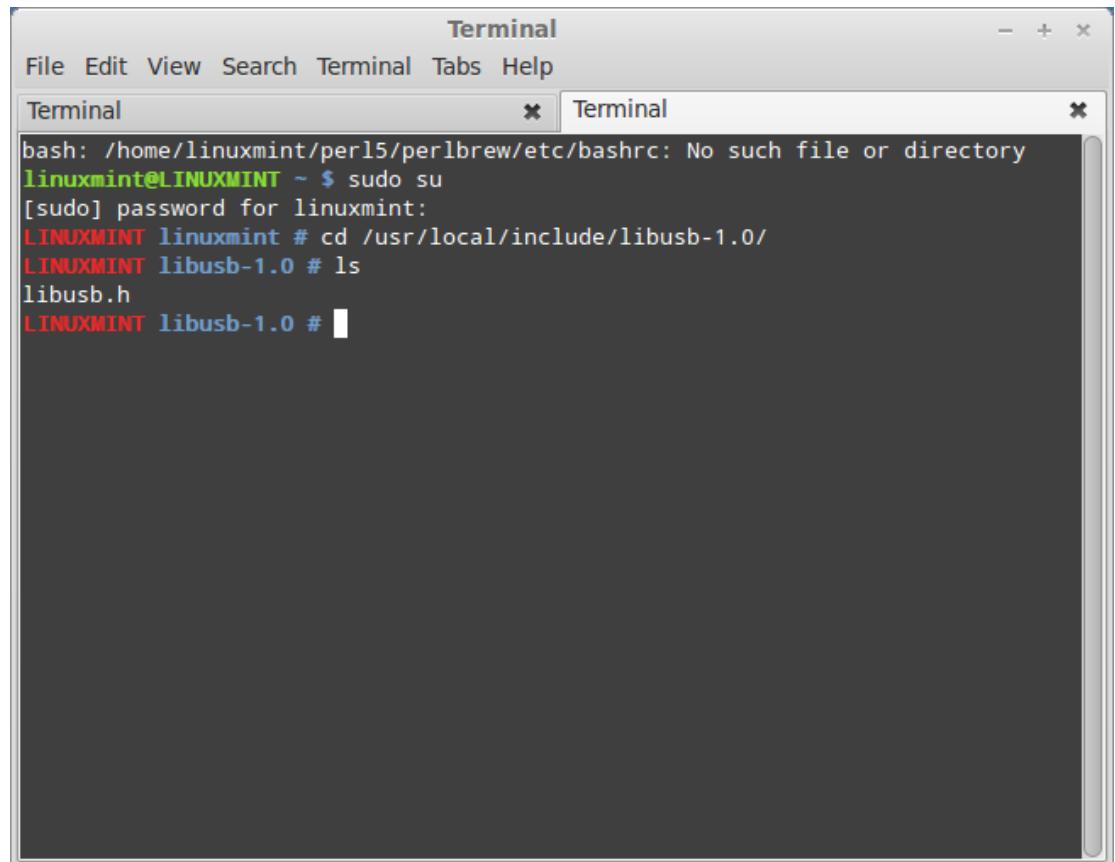


The screenshot shows a terminal window titled "Terminal" with two tabs. The left tab is labeled "Terminal" and the right tab is also labeled "Terminal". The terminal window displays a command-line session. The user has entered the command "make install" in red, which is highlighted by a red rectangle. The terminal output shows the process of installing the libusb library, including directory changes and file installations.

```
bash: /home/linuxmint/perl5/perlbrew/etc/bashrc: No such file or directory
linuxmint@LINUXMINT ~ $ sudo su
[sudo] password for linuxmint:
Sorry, try again.
[sudo] password for linuxmint:
LINUXMINT linuxmint # cd Desktop/libusb-1.0.20/
LINUXMINT libusb-1.0.20 # make install
Making install in libusb
make[1]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
make[2]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
make[3]: Entering directory '/home/linuxmint/Desktop/libusb-1.0.20/libusb'
  /bin/mkdir -p '/usr/local/lib'
  /bin/bash ./libtool --mode=install /usr/bin/install -c libusb-1.0.la '/usr/local/lib'
libtool: install: /usr/bin/install -c .libs/libusb-1.0.so.0.1.0 /usr/local/lib/libusb-1.0.so.0.1.0
libtool: install: (cd /usr/local/lib && { ln -s -f libusb-1.0.so.0.1.0 libusb-1.0.so.0 || { rm -f libusb-1.0.so.0 && ln -s libusb-1.0.so.0.1.0 libusb-1.0.so.0; }})
libtool: install: (cd /usr/local/lib && { ln -s -f libusb-1.0.so.0.1.0 libusb-1.0.so || { rm -f libusb-1.0.so && ln -s libusb-1.0.so.0.1.0 libusb-1.0.so; }})
libtool: install: /usr/bin/install -c .libs/libusb-1.0.lai /usr/local/lib/libu
```

6. Check libusb.h file is available in path  
**/usr/local/include/libusb-1.0**. If file is available then libusb installation was success.

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The screenshot shows a terminal window titled "Terminal" with two tabs. The left tab is active and displays the following command-line session:

```
bash: /home/linuxmint/perl5/perlbrew/etc/bashrc: No such file or directory
linuxmint@LINUXMINT ~ $ sudo su
[sudo] password for linuxmint:
LINUXMINT linuxmint # cd /usr/local/include/libusb-1.0/
LINUXMINT libusb-1.0 # ls
libusb.h
LINUXMINT libusb-1.0 #
```

### 3.3 *FAQ (Frequently asked Questions)*

1. Error: libusb.h: No such file or directory.

Answer: **To resolve this error need to specify include path of the libusb-1.0 in make file**

**Libusb.h header file will be available in  
/usr/local/include/libusb-1.0**

2. Error : ‘libusb\_get\_port\_numbers’ was not declared in this scope

Answer: **If older version of Libusb is installed then it will throw ‘libusb\_get\_port\_numbers’ error. To resolve this error, install latest libusb.**