

[安装pip3](#)

[安装pip3遇到的问题](#)

[解决:](#)

[安装python2.7以及pip](#)

[又有问题了](#)

[安装虚拟环境包](#)

[创建虚拟环境](#)

[安装git](#)

安装pip3

```
1 root@richardhu-virtual-machine:/etc/apt# python3
2 Python 3.6.8 (default, Oct 7 2019, 12:59:55)
3 [GCC 8.3.0] on linux
4 Type "help", "copyright", "credits" or "license" for more information.
5 >>>
6 [1]+ 已停止 python3
7 root@richardhu-virtual-machine:/etc/apt# apt install python3-pip
8 正在读取软件包列表... 完成
9 正在分析软件包的依赖关系树
10 正在读取状态信息... 完成
11 下列软件包是自动安装的并且现在不需要了:
12   linux-headers-4.18.0-15 linux-headers-4.18.0-15-generic linux-image-4.18.0-15-generic
13   linux-modules-4.18.0-15-generic linux-modules-extra-4.18.0-15-generic
14 使用 'apt autoremove' 来卸载它(它们)。
15 将会同时安装下列软件:
16   cpp-5 gcc gcc-5 gcc-5-base libasan2 libatomic1 libcilkrts5 libgcc-5-dev libisl15 lib
17   libmpfr4 libmpx0 libquadmath0 libtsan0 libubsan0 make python-pip-whl python3-wheel
18 建议安装:
19   gcc-5-locales gcc-multilib manpages-dev autoconf automake libtool flex bison gcc-doc
20   gcc-5-doc libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg libasan2-dbg liblsan0-
21   libubsan0-dbg libcilkrts5-dbg libmpx0-dbg libquadmath0-dbg make-doc python3-setuptools
22 推荐安装:
23   libc6-dev | libc-dev libc6-dev build-essential python3-dev python3-setuptools
24 下列【新】软件包将被安装:
25   cpp-5 gcc gcc-5 gcc-5-base libasan2 libatomic1 libcilkrts5 libgcc-5-dev libisl15 lib
26   libmpfr4 libmpx0 libquadmath0 libtsan0 libubsan0 make python-pip-whl python3-pip py
27 升级了 0 个软件包, 新安装了 20 个软件包, 要卸载 0 个软件包, 有 0 个软件包未被升级。
28 需要下载 21.7 MB 的归档。
29 解压缩后会消耗 66.8 MB 的额外空间。
30 您希望继续执行吗? [Y/n] Y
```

```
31 获取:1 http://mirrors.ustc.edu.cn/ubuntu xenial-security/main amd64 gcc-5-base amd64 5
32 正在解包 make (4.1-6) ...
33 正在选中未选择的软件包 python-pip-whl。
34 正准备解包 .../17-python-pip-whl_8.1.1-2ubuntu0.4_all.deb ...
35 正在解包 python-pip-whl (8.1.1-2ubuntu0.4) ...
36 正在选中未选择的软件包 python3-pip。
37 正准备解包 .../18-python3-pip_8.1.1-2ubuntu0.4_all.deb ...
38 正在解包 python3-pip (8.1.1-2ubuntu0.4) ...
39 正在选中未选择的软件包 python3-wheel。
40 正准备解包 .../19-python3-wheel_0.29.0-1_all.deb ...
41 正在解包 python3-wheel (0.29.0-1) ...
42 正在设置 python-pip-whl (8.1.1-2ubuntu0.4) ...
43 正在设置 make (4.1-6) ...
44 正在设置 python3-wheel (0.29.0-1) ...
45 正在设置 libisl15:amd64 (0.16.1-1) ...
46 正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 ...
47 正在设置 python3-pip (8.1.1-2ubuntu0.4) ...
48 正在设置 libmpfr4:amd64 (3.1.4-1) ...
49 正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
50 正在设置 gcc-5-base:amd64 (5.4.0-6ubuntu1~16.04.12) ...
51 正在设置 libquadmath0:amd64 (5.4.0-6ubuntu1~16.04.12) ...
52 正在设置 libatomic1:amd64 (5.4.0-6ubuntu1~16.04.12) ...
53 正在设置 libmpx0:amd64 (5.4.0-6ubuntu1~16.04.12) ...
54 正在设置 libcilkrts5:amd64 (5.4.0-6ubuntu1~16.04.12) ...
55 正在设置 libubsan0:amd64 (5.4.0-6ubuntu1~16.04.12) ...
56 正在设置 libtsan0:amd64 (5.4.0-6ubuntu1~16.04.12) ...
57 正在设置 libasan2:amd64 (5.4.0-6ubuntu1~16.04.12) ...
58 正在设置 liblsan0:amd64 (5.4.0-6ubuntu1~16.04.12) ...
59 正在设置 cpp-5 (5.4.0-6ubuntu1~16.04.12) ...
60 正在设置 libitm1:amd64 (5.4.0-6ubuntu1~16.04.12) ...
61 正在设置 libgcc-5-dev:amd64 (5.4.0-6ubuntu1~16.04.12) ...
62 正在设置 gcc-5 (5.4.0-6ubuntu1~16.04.12) ...
63 正在设置 gcc (4:5.3.1-1ubuntu1) ...
64 正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 。
65 =====
66
```

安装pip3遇到的问题

```
1 root@richardhu-virtual-machine:/etc/apt# pip3
2 Traceback (most recent call last):
3   File "/usr/bin/pip3", line 9, in <module>
4     from pip import main
5   File "/usr/lib/python3/dist-packages/pip/__init__.py", line 14, in <module>
```

```
6     from pip.utils import get_installed_distributions, get_prog
7     File "/usr/lib/python3/dist-packages/pip/utils/__init__.py", line 23, in <module>
8         from pip.locations import (
9     File "/usr/lib/python3/dist-packages/pip/locations.py", line 9, in <module>
10         from distutils import sysconfig
11 ImportError: cannot import name 'sysconfig'
12 root@richardhu-virtual-machine:/etc/apt# which pip3
13 /usr/bin/pip3
14 root@richardhu-virtual-machine:/etc/apt# pip3 -v
15 Traceback (most recent call last):
16   File "/usr/bin/pip3", line 9, in <module>
17       from pip import main
18   File "/usr/lib/python3/dist-packages/pip/__init__.py", line 14, in <module>
19       from pip.utils import get_installed_distributions, get_prog
20   File "/usr/lib/python3/dist-packages/pip/utils/__init__.py", line 23, in <module>
21       from pip.locations import (
22   File "/usr/lib/python3/dist-packages/pip/locations.py", line 9, in <module>
23       from distutils import sysconfig
24 ImportError: cannot import name 'sysconfig'
```

解决:

https://blog.csdn.net/qq_27366789/article/details/80559074

https://blog.csdn.net/weixin_39394526/article/details/87937645


```
deb http://mirrors.ustc.edu.cn/ubuntu/ xenial main restricted universe multiverse
deb http://mirrors.ustc.edu.cn/ubuntu/ xenial-security main restricted universe multiverse
deb http://mirrors.ustc.edu.cn/ubuntu/ xenial-updates main restricted universe multiverse
deb http://mirrors.ustc.edu.cn/ubuntu/ xenial-proposed main restricted universe multiverse
deb http://mirrors.ustc.edu.cn/ubuntu/ xenial-backports main restricted universe multiverse
deb-src http://mirrors.ustc.edu.cn/ubuntu/ xenial main restricted universe multiverse
deb-src http://mirrors.ustc.edu.cn/ubuntu/ xenial-security main restricted universe multiverse
deb-src http://mirrors.ustc.edu.cn/ubuntu/ xenial-updates main restricted universe multiverse
deb-src http://mirrors.ustc.edu.cn/ubuntu/ xenial-proposed main restricted universe multiverse
deb-src http://mirrors.ustc.edu.cn/ubuntu/ xenial-backports main restricted universe multiverse
deb http://cn.archive.ubuntu.com/ubuntu bionic main multiverse restricted universe
deb http://cn.archive.ubuntu.com/ubuntu bionic-updates main multiverse restricted universe
deb http://cn.archive.ubuntu.com/ubuntu bionic-security main multiverse restricted universe
deb http://cn.archive.ubuntu.com/ubuntu bionic-proposed main multiverse restricted universe
```

```
root@richardhu-virtual-machine:/etc/apt# apt-get update
```

```
获取:1 http://cn.archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
获取:2 http://cn.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
获取:3 http://cn.archive.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
获取:4 http://cn.archive.ubuntu.com/ubuntu bionic-proposed InRelease [242 kB]
获取:5 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 Packages [1,019 kB]
获取:6 http://cn.archive.ubuntu.com/ubuntu bionic/main i386 Packages [1,007 kB]
获取:7 http://cn.archive.ubuntu.com/ubuntu bionic/main Translation-en [516 kB]
获取:8 http://cn.archive.ubuntu.com/ubuntu bionic/main Translation-zh_CN [67.7 kB]
获取:9 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 DEP-11 Metadata [477 kB]
获取:10 http://cn.archive.ubuntu.com/ubuntu bionic/main DEP-11 48x48 Icons [118 kB]
获取:11 http://cn.archive.ubuntu.com/ubuntu bionic/main DEP-11 64x64 Icons [245 kB]
获取:12 http://cn.archive.ubuntu.com/ubuntu bionic/multiverse i386 Packages [144 kB]
获取:13 http://cn.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
获取:14 http://cn.archive.ubuntu.com/ubuntu bionic/multiverse Translation-zh_CN [4,768 B]
获取:15 http://cn.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
获取:16 http://cn.archive.ubuntu.com/ubuntu bionic/multiverse amd64 DEP-11 Metadata [49.7 kB]
```

获取:17 <http://cn.archive.ubuntu.com/ubuntu bionic/multiverse DEP-11 48x48 Icons> [8,931 B]
获取:18 <http://cn.archive.ubuntu.com/ubuntu bionic/multiverse DEP-11 64x64 Icons> [225 kB]
获取:19 <http://cn.archive.ubuntu.com/ubuntu bionic/restricted i386 Packages> [9,156 B]
获取:20 <http://cn.archive.ubuntu.com/ubuntu bionic/restricted amd64 Packages> [9,184 B]
获取:21 http://cn.archive.ubuntu.com/ubuntu bionic/restricted Translation-zh_CN [1,188 B]
获取:22 <http://cn.archive.ubuntu.com/ubuntu bionic/restricted Translation-en> [3,584 B]
获取:23 <http://cn.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages> [8,570 kB]
命中:24 <http://mirrors.ustc.edu.cn/ubuntu xenial InRelease>
命中:25 <http://mirrors.ustc.edu.cn/ubuntu xenial-security InRelease>
命中:26 <http://mirrors.ustc.edu.cn/ubuntu xenial-updates InRelease>
命中:27 <http://mirrors.ustc.edu.cn/ubuntu xenial-proposed InRelease>
命中:28 <http://mirrors.ustc.edu.cn/ubuntu xenial-backports InRelease>
获取:29 <http://cn.archive.ubuntu.com/ubuntu bionic/universe i386 Packages> [8,531 kB]
获取:30 http://cn.archive.ubuntu.com/ubuntu bionic/universe Translation-zh_CN [174 kB]
获取:31 <http://cn.archive.ubuntu.com/ubuntu bionic/universe Translation-en> [4,941 kB]
获取:32 <http://cn.archive.ubuntu.com/ubuntu bionic/universe amd64 DEP-11 Metadata> [3,287 kB]
获取:33 <http://cn.archive.ubuntu.com/ubuntu bionic/universe DEP-11 48x48 Icons> [2,151 kB]
获取:34 <http://cn.archive.ubuntu.com/ubuntu bionic/universe DEP-11 64x64 Icons> [8,420 kB]
获取:35 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages> [817 kB]
获取:36 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main i386 Packages> [625 kB]
获取:37 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en> [288 kB]
获取:37 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en> [288 kB]
获取:38 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 DEP-11 Metadata> [295 B]
获取:39 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main DEP-11 48x48 Icons> [73.8 kB]
获取:40 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main DEP-11 64x64 Icons> [147 kB]
获取:41 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse i386 Packages> [7,484 B]
获取:42 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages> [9,284 B]
获取:43 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en> [4,508 B]
获取:44 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 DEP-11 Metadata> [295 B]
获取:45 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse DEP-11 48x48 Icons> [2,151 kB]
获取:46 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/multiverse DEP-11 64x64 Icons> [8,420 kB]
获取:47 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages> [24.1 kB]
获取:48 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/restricted i386 Packages> [9,584 B]
获取:49 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en> [6,620 B]
获取:50 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages> [1,033 kB]
获取:51 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe i386 Packages> [997 kB]
获取:52 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en> [319 kB]
获取:53 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 DEP-11 Metadata> [295 B]
获取:54 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe DEP-11 48x48 Icons> [2,151 kB]
获取:55 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe DEP-11 64x64 Icons> [8,420 kB]
获取:56 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main amd64 Packages> [593 kB]
获取:56 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main amd64 Packages> [593 kB]
获取:57 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main i386 Packages> [414 kB]
获取:58 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main Translation-en> [194 kB]
获取:59 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main amd64 DEP-11 Metadata> [295 B]
获取:60 <http://cn.archive.ubuntu.com/ubuntu bionic-security/main DEP-11 48x48 Icons> [17.6 kB]

获取:61 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/main DEP-11 64x64 Icons [41.5 k
获取:62 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse i386 Packages [4,288
获取:63 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse amd64 Packages [6,12
获取:64 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse Translation-en [2,60
获取:65 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse amd64 DEP-11 Metadata
获取:66 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse DEP-11 48x48 Icons |
获取:67 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/multiverse DEP-11 64x64 Icons |
获取:68 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/restricted i386 Packages [4,288
获取:69 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/restricted amd64 Packages [15.1
获取:70 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/restricted Translation-en [4,68
获取:71 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe i386 Packages [602 kB]
获取:72 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe amd64 Packages [627 kE
获取:72 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe amd64 Packages [627 kE
获取:73 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe Translation-en [210 kE
获取:74 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe amd64 DEP-11 Metadata
获取:74 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe amd64 DEP-11 Metadata
获取:75 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe DEP-11 48x48 Icons [16
获取:76 <http://cn.archive.ubuntu.com/ubuntu> bionic-security/universe DEP-11 64x64 Icons [11
获取:77 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main amd64 Packages [101 kB]
获取:78 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main i386 Packages [73.2 kB]
获取:79 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main Translation-zh_CN [67.7 kE
获取:80 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main Translation-en [40.4 kB]
获取:81 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main amd64 DEP-11 Metadata [102
获取:82 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main DEP-11 48x48 Icons [9,364
获取:83 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/main DEP-11 64x64 Icons [17.0 k
获取:84 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse amd64 Packages [1,08
获取:85 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse Translation-en [532
获取:86 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse Translation-zh_CN [4
获取:87 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse amd64 DEP-11 Metadata
获取:88 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse DEP-11 48x48 Icons |
获取:89 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/multiverse DEP-11 64x64 Icons |
获取:90 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/restricted amd64 Packages [7,63
获取:91 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/restricted Translation-en [2,20
获取:92 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/restricted Translation-zh_CN [1
获取:93 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe i386 Packages [43.3 kE
获取:94 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe amd64 Packages [47.4 k
获取:95 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe Translation-en [25.8 k
获取:96 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe Translation-zh_CN [174
获取:97 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe amd64 DEP-11 Metadata
获取:98 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe DEP-11 48x48 Icons [10
获取:99 <http://cn.archive.ubuntu.com/ubuntu> bionic-proposed/universe DEP-11 64x64 Icons [16

已下载 50.1 MB, 耗时 6分 0秒 (139 kB/s)

正在读取软件包列表... 完成

```
root@richardhu-virtual-machine:/etc/apt# apt-get remove python3-pip
```


正在读取软件包列表... 完成

正在分析软件包的依赖关系树

正在读取状态信息... 完成

下列软件包是自动安装的并且现在不需要了:

```
linux-headers-4.18.0-15 linux-headers-4.18.0-15-generic linux-image-4.18.0-15-generic
linux-modules-4.18.0-15-generic linux-modules-extra-4.18.0-15-generic python-pip-whl pyt
```

使用 'apt autoremove' 来卸载它(它们)。

下列软件包将被【卸载】:

```
python3-pip
```

升级了 0 个软件包, 新安装了 0 个软件包, 要卸载 1 个软件包, 有 339 个软件包未被升级。

解压缩后将会空出 569 kB 的空间。

您希望继续执行吗? [Y/n] Y

(正在读取数据库 ... 系统当前共安装有 204106 个文件和目录。)

正在卸载 python3-pip (8.1.1-2ubuntu0.4) ...

正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...

```
root@richardhu-virtual-machine:/etc/apt# apt-get install python3-pip
```

正在读取软件包列表... 完成

正在分析软件包的依赖关系树

正在读取状态信息... 完成

下列软件包是自动安装的并且现在不需要了:

```
linux-headers-4.18.0-15 linux-headers-4.18.0-15-generic linux-image-4.18.0-15-generic
linux-modules-4.18.0-15-generic linux-modules-extra-4.18.0-15-generic
```

使用 'apt autoremove' 来卸载它(它们)。

将会同时安装下列软件:

```
build-essential cpp-7 dh-python dpkg-dev fakeroot g++ g++-7 gcc gcc-7 gcc-7-base gcc-8-b
libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan4 libato
libc-dev-bin libc6-dev libcc1-0 libcilkrts5 libdpkg-perl libexpat1-dev libfakeroot libgc
libgcc1 libgomp1 libitm1 liblsan0 libmpx2 libpython3-dev libpython3.6 libpython3.6-dev
libpython3.6-minimal libpython3.6-stdlib libquadmath0 libstdc++-7-dev libstdc++6 libtsan
linux-libc-dev manpages-dev python-pip-whl python3-dev python3-distutils python3-lib2to3
python3-setuptools python3.6 python3.6-dev python3.6-minimal
```

建议安装:

```
gcc-7-locales debian-keyring g++-multilib g++-7-multilib gcc-7-doc libstdc++6-7-dbg gcc-
autoconf automake libtool flex bison gcc-doc gcc-7-multilib libgcc1-dbg libgomp1-dbg lib
libatomic1-dbg libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrts5-dbg libm
libquadmath0-dbg glibc-doc git bzr libstdc++-7-doc python-setuptools-doc python3.6-venv
binfmt-support
```

下列【新】软件包将被安装:

```
build-essential dh-python dpkg-dev fakeroot g++ g++-7 gcc-7 libalgorithm-diff-perl
libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan4 libc-dev-bin libc6-dev libexp
libfakeroot libgcc-7-dev libmpx2 libpython3-dev libpython3.6-dev libstdc++-7-dev linux-l
manpages-dev python3-dev python3-distutils python3-lib2to3 python3-pip python3-setuptools
python3.6-dev
```

下列软件包将被升级:

```
cpp-7 gcc gcc-7-base gcc-8-base libatomic1 libcc1-0 libcilkrts5 libdpkg-perl libgcc1 lib  
liblsan0 libpython3.6 libpython3.6-minimal libpython3.6-stdlib libquadmath0 libstdc++6 l  
libubsan0 python-pip-whl python3.6 python3.6-minimal
```

升级了 22 个软件包, 新安装了 28 个软件包, 要卸载 0 个软件包, 有 317 个软件包未被升级。

需要下载 93.4 MB 的归档。

解压缩后会消耗 203 MB 的额外空间。

您希望继续执行吗? [Y/n] Y

```
获取:1 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6 amd64 3.6.9-0ubuntu0~18.04.1  
获取:2 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6 amd64 3.6.9-0ubuntu0~18.04.1  
获取:3 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-stdlib amd64 3.6.9-0ubuntu0~18.04.1  
获取:4 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-minimal amd64 3.6.9-0ubuntu0~18.04.1  
获取:5 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-minimal amd64 3.6.9-0ubuntu0~18.04.1  
获取:6 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 gcc-8-base amd64 8.3.0-6ubuntu1  
获取:7 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libstdc++6 amd64 8.3.0-6ubuntu1  
获取:8 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libgomp1 amd64 8.3.0-6ubuntu1  
获取:9 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libcc1-0 amd64 8.3.0-6ubuntu1  
获取:10 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libgcc1 amd64 1:8.3.0-6ubuntu1  
获取:11 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 libc-dev-bin amd64 2.27-3ubuntu1  
获取:12 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 linux-libc-dev amd64 4.18.0-1ubuntu1  
获取:13 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 libc6-dev amd64 2.27-3ubuntu1  
获取:14 http://mirrors.ustc.edu.cn/ubuntu xenial/main amd64 libalgorithm-diff-perl all 1.19-1  
获取:15 http://mirrors.ustc.edu.cn/ubuntu xenial/main amd64 libalgorithm-merge-perl all 0.08-2  
获取:16 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 cpp-7 amd64 7.5.0-3ubuntu1  
获取:17 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 gcc-7-base amd64 7.5.0-3ubuntu1  
获取:18 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libitm1 amd64 8.3.0-6ubuntu1  
获取:19 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libatomic1 amd64 8.3.0-6ubuntu1  
获取:20 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libasan4 amd64 7.5.0-3ubuntu1  
获取:20 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libasan4 amd64 7.5.0-3ubuntu1  
获取:21 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 liblsan0 amd64 8.3.0-6ubuntu1  
获取:22 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libtsan0 amd64 8.3.0-6ubuntu1  
获取:23 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libubsan0 amd64 7.5.0-3ubuntu1  
获取:24 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libcilkrts5 amd64 7.5.0-3ubuntu1  
获取:25 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libmpx2 amd64 8.3.0-6ubuntu1  
获取:26 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libquadmath0 amd64 8.3.0-6ubuntu1  
获取:27 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libgcc-7-dev amd64 7.5.0-3ubuntu1  
获取:28 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 gcc-7 amd64 7.5.0-3ubuntu1  
获取:29 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 gcc amd64 4:7.4.0-1ubuntu1  
获取:30 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 libstdc++-7-dev amd64 7.5.0-3ubuntu1  
获取:31 http://cn.archive.ubuntu.com/ubuntu bionic-proposed/main amd64 g++-7 amd64 7.5.0-3ubuntu1  
获取:32 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 g++ amd64 4:7.4.0-1ubuntu1  
获取:33 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libdpkg-perl all 1.19.0.5ubuntu1  
获取:33 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libdpkg-perl all 1.19.0.5ubuntu1  
获取:34 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 dpkg-dev all 1.19.0.5ubuntu1  
获取:35 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 build-essential amd64 12.4ubuntu1  
获取:36 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-lib2to3 all 3.6.9-0ubuntu0~18.04.1  
获取:37 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-distutils all 3.6.9-0ubuntu0~18.04.1
```


获取:38 <http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 dh-python all 3.20180325ubuntu1>
获取:39 <http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 libfakeroot amd64 1.22-2ubuntu1>
获取:40 <http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 fakeroot amd64 1.22-2ubuntu1>
获取:41 <http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 libalgorithm-diff-xs-perl amd64 0.04-2ubuntu1>
获取:42 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libexpat1-dev amd64 2.1.0-1ubuntu0.18.04.1>
获取:43 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-dev amd64 3.6.9-1ubuntu0.18.04.1>
获取:44 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3-dev amd64 3.6.9-1ubuntu0.18.04.1>
获取:45 [http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 manpages-dev all 4.15-1 \[2,21\]](http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 manpages-dev all 4.15-1 [2,21])
获取:46 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python-pip-whl all 10.0.1-2ubuntu0.18.04.1>
获取:47 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-dev amd64 3.6.9-1ubuntu0.18.04.1>
获取:48 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-dev amd64 3.6.9-1ubuntu0.18.04.1>
获取:49 <http://cn.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-pip all 9.0.1-2ubuntu0.18.04.1>
获取:50 <http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 python3-setuptools all 39.0.1-2ubuntu0.18.04.1>

已下载 93.2 MB, 耗时 19分 0秒 (81.7 kB/s)

正在从软件包中解出模板: 100%

(正在读取数据库 ... 系统当前共安装有 204033 个文件和目录。)

正准备解包 .../0-libpython3.6_3.6.9-1~18.04_amd64.deb ...

正在将 libpython3.6:amd64 (3.6.9-1~18.04) 解包到 (3.6.8-1~18.04.3) 上 ...

正准备解包 .../1-python3.6_3.6.9-1~18.04_amd64.deb ...

正在将 python3.6 (3.6.9-1~18.04) 解包到 (3.6.8-1~18.04.3) 上 ...

正准备解包 .../2-libpython3.6-stdlib_3.6.9-1~18.04_amd64.deb ...

正在将 libpython3.6-stdlib:amd64 (3.6.9-1~18.04) 解包到 (3.6.8-1~18.04.3) 上 ...

正准备解包 .../3-python3.6-minimal_3.6.9-1~18.04_amd64.deb ...

正在将 python3.6-minimal (3.6.9-1~18.04) 解包到 (3.6.8-1~18.04.3) 上 ...

正准备解包 .../4-libpython3.6-minimal_3.6.9-1~18.04_amd64.deb ...

正在将 libpython3.6-minimal:amd64 (3.6.9-1~18.04) 解包到 (3.6.8-1~18.04.3) 上 ...

正准备解包 .../5-gcc-8-base_8.3.0-26ubuntu1~18.04_amd64.deb ...

正在将 gcc-8-base:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (8.3.0-6ubuntu1~18.04.1) 上 ...

正在设置 gcc-8-base:amd64 (8.3.0-26ubuntu1~18.04) ...

(正在读取数据库 ... 系统当前共安装有 204033 个文件和目录。)

正准备解包 .../libstdc++6_8.3.0-26ubuntu1~18.04_amd64.deb ...

正在将 libstdc++6:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (8.3.0-6ubuntu1~18.04.1) 上 ...

正在设置 libstdc++6:amd64 (8.3.0-26ubuntu1~18.04) ...

(正在读取数据库 ... 系统当前共安装有 204033 个文件和目录。)

正准备解包 .../libgomp1_8.3.0-26ubuntu1~18.04_amd64.deb ...

正在将 libgomp1:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (8.3.0-6ubuntu1~18.04.1) 上 ...

正准备解包 .../libcc1-0_8.3.0-26ubuntu1~18.04_amd64.deb ...

正在将 libcc1-0:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (8.3.0-6ubuntu1~18.04.1) 上 ...

正准备解包 .../libgcc1_1%3a8.3.0-26ubuntu1~18.04_amd64.deb ...

正在将 libgcc1:amd64 (1:8.3.0-26ubuntu1~18.04) 解包到 (1:8.3.0-6ubuntu1~18.04.1) 上 ...

正在设置 libgcc1:amd64 (1:8.3.0-26ubuntu1~18.04) ...

正在选中未选择的软件包 libc-dev-bin。

(正在读取数据库 ... 系统当前共安装有 204033 个文件和目录。)

正准备解包 .../00-libc-dev-bin_2.27-3ubuntu1_amd64.deb ...

正在解包 libc-dev-bin (2.27-3ubuntu1) ...

正在选中未选择的软件包 linux-libc-dev:amd64。

```
正准备解包 .../01-linux-libc-dev_4.15.0-74.84_amd64.deb ...
正在解包 linux-libc-dev:amd64 (4.15.0-74.84) ...
正在选中未选择的软件包 libc6-dev:amd64。
正准备解包 .../02-libc6-dev_2.27-3ubuntu1_amd64.deb ...
正在解包 libc6-dev:amd64 (2.27-3ubuntu1) ...
正准备解包 .../03-cpp-7_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在将 cpp-7 (7.5.0-3ubuntu1~18.04) 解包到 (7.4.0-1ubuntu1~18.04.1) 上 ...
正准备解包 .../04-gcc-7-base_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在将 gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) 解包到 (7.4.0-1ubuntu1~18.04.1) 上 ...
正准备解包 .../05-libitm1_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在将 libitm1:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正准备解包 .../06-libatomic1_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在将 libatomic1:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正在选中未选择的软件包 libasan4:amd64。
正准备解包 .../07-libasan4_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在解包 libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...
正准备解包 .../08-liblsan0_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在将 liblsan0:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正准备解包 .../09-libtsan0_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在将 libtsan0:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正准备解包 .../10-libubsan0_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在将 libubsan0:amd64 (7.5.0-3ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正准备解包 .../11-libcilkrt5_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在将 libcilkrt5:amd64 (7.5.0-3ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正在选中未选择的软件包 libmpx2:amd64。
正准备解包 .../12-libmpx2_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在解包 libmpx2:amd64 (8.3.0-26ubuntu1~18.04) ...
正准备解包 .../13-libquadmath0_8.3.0-26ubuntu1~18.04_amd64.deb ...
正在将 libquadmath0:amd64 (8.3.0-26ubuntu1~18.04) 解包到 (5.4.0-6ubuntu1~16.04.12) 上 ...
正在选中未选择的软件包 libgcc-7-dev:amd64。
正准备解包 .../14-libgcc-7-dev_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在解包 libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...
正在选中未选择的软件包 gcc-7。
正准备解包 .../15-gcc-7_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在解包 gcc-7 (7.5.0-3ubuntu1~18.04) ...
正准备解包 .../16-gcc_4%3a7.4.0-1ubuntu2.3_amd64.deb ...
正在将 gcc (4:7.4.0-1ubuntu2.3) 解包到 (4:5.3.1-1ubuntu1) 上 ...
正在选中未选择的软件包 libstdc++-7-dev:amd64。
正准备解包 .../17-libstdc++-7-dev_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在解包 libstdc++-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...
正在选中未选择的软件包 g++-7。
正准备解包 .../18-g++-7_7.5.0-3ubuntu1~18.04_amd64.deb ...
正在解包 g++-7 (7.5.0-3ubuntu1~18.04) ...
正在选中未选择的软件包 g++。
正准备解包 .../19-g++_4%3a7.4.0-1ubuntu2.3_amd64.deb ...
正在解包 g++ (4:7.4.0-1ubuntu2.3) ...
```

正准备解包 .../20-libdpkg-perl_1.19.0.5ubuntu2.3_all.deb ...
正在将 libdpkg-perl (1.19.0.5ubuntu2.3) 解包到 (1.19.0.5ubuntu2.1) 上 ...
正在选中未选择的软件包 dpkg-dev。
正准备解包 .../21-dpkg-dev_1.19.0.5ubuntu2.3_all.deb ...
正在解包 dpkg-dev (1.19.0.5ubuntu2.3) ...
正在选中未选择的软件包 build-essential。
正准备解包 .../22-build-essential_12.4ubuntu1_amd64.deb ...
正在解包 build-essential (12.4ubuntu1) ...
正在选中未选择的软件包 python3-lib2to3。
正准备解包 .../23-python3-lib2to3_3.6.9-1~18.04_all.deb ...
正在解包 python3-lib2to3 (3.6.9-1~18.04) ...
正在选中未选择的软件包 python3-distutils。
正准备解包 .../24-python3-distutils_3.6.9-1~18.04_all.deb ...
正在解包 python3-distutils (3.6.9-1~18.04) ...
正在选中未选择的软件包 dh-python。
正准备解包 .../25-dh-python_3.20180325ubuntu2_all.deb ...
正在解包 dh-python (3.20180325ubuntu2) ...
正在选中未选择的软件包 libfakeroot:amd64。
正准备解包 .../26-libfakeroot_1.22-2ubuntu1_amd64.deb ...
正在解包 libfakeroot:amd64 (1.22-2ubuntu1) ...
正在选中未选择的软件包 fakeroot。
正准备解包 .../27-fakeroot_1.22-2ubuntu1_amd64.deb ...
正在解包 fakeroot (1.22-2ubuntu1) ...
正在选中未选择的软件包 libalgorithm-diff-perl。
正准备解包 .../28-libalgorithm-diff-perl_1.19.03-1_all.deb ...
正在解包 libalgorithm-diff-perl (1.19.03-1) ...
正在选中未选择的软件包 libalgorithm-diff-xs-perl。
正准备解包 .../29-libalgorithm-diff-xs-perl_0.04-5_amd64.deb ...
正在解包 libalgorithm-diff-xs-perl (0.04-5) ...
正在选中未选择的软件包 libalgorithm-merge-perl。
正准备解包 .../30-libalgorithm-merge-perl_0.08-3_all.deb ...
正在解包 libalgorithm-merge-perl (0.08-3) ...
正在选中未选择的软件包 libexpat1-dev:amd64。
正准备解包 .../31-libexpat1-dev_2.2.5-3ubuntu0.2_amd64.deb ...
正在解包 libexpat1-dev:amd64 (2.2.5-3ubuntu0.2) ...
正在选中未选择的软件包 libpython3.6-dev:amd64。
正准备解包 .../32-libpython3.6-dev_3.6.9-1~18.04_amd64.deb ...
正在解包 libpython3.6-dev:amd64 (3.6.9-1~18.04) ...
正在选中未选择的软件包 libpython3-dev:amd64。
正准备解包 .../33-libpython3-dev_3.6.7-1~18.04_amd64.deb ...
正在解包 libpython3-dev:amd64 (3.6.7-1~18.04) ...
正在选中未选择的软件包 manpages-dev。
正准备解包 .../34-manpages-dev_4.15-1_all.deb ...
正在解包 manpages-dev (4.15-1) ...
正准备解包 .../35-python-pip-whl_9.0.1-2.3~ubuntu1.18.04.1_all.deb ...
正在将 python-pip-whl (9.0.1-2.3~ubuntu1.18.04.1) 解包到 (8.1.1-2ubuntu0.4) 上 ...

```
正在选中未选择的软件包 python3.6-dev。
正准备解包 .../36-python3.6-dev_3.6.9-1~18.04_amd64.deb ...
正在解包 python3.6-dev (3.6.9-1~18.04) ...
正在选中未选择的软件包 python3-dev。
正准备解包 .../37-python3-dev_3.6.7-1~18.04_amd64.deb ...
正在解包 python3-dev (3.6.7-1~18.04) ...
正在选中未选择的软件包 python3-pip。
正准备解包 .../38-python3-pip_9.0.1-2.3~ubuntu1.18.04.1_all.deb ...
正在解包 python3-pip (9.0.1-2.3~ubuntu1.18.04.1) ...
正在选中未选择的软件包 python3-setuptools。
正准备解包 .../39-python3-setuptools_39.0.1-2_all.deb ...
正在解包 python3-setuptools (39.0.1-2) ...
正在设置 libquadmath0:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 libgomp1:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 libatomic1:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 python-pip-whl (9.0.1-2.3~ubuntu1.18.04.1) ...
正在设置 libcc1-0:amd64 (8.3.0-26ubuntu1~18.04) ...
正在处理用于 mime-support (3.60ubuntu1) 的触发器 ...
正在处理用于 desktop-file-utils (0.23-1ubuntu3.18.04.2) 的触发器 ...
正在设置 libtsan0:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 linux-libc-dev:amd64 (4.15.0-74.84) ...
正在设置 libdpkg-perl (1.19.0.5ubuntu2.3) ...
正在设置 liblsan0:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 gcc-7-base:amd64 (7.5.0-3ubuntu1~18.04) ...
正在设置 libpython3.6-minimal:amd64 (3.6.9-1~18.04) ...
正在设置 libmpx2:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 dpkg-dev (1.19.0.5ubuntu2.3) ...
正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 ...
正在设置 libfakeroot:amd64 (1.22-2ubuntu1) ...
正在设置 libalgorithm-diff-perl (1.19.03-1) ...
正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
正在设置 libc-dev-bin (2.27-3ubuntu1) ...
正在处理用于 gnome-menus (3.13.3-11ubuntu1.1) 的触发器 ...
正在设置 python3-lib2to3 (3.6.9-1~18.04) ...
正在设置 manpages-dev (4.15-1) ...
正在设置 libc6-dev:amd64 (2.27-3ubuntu1) ...
正在设置 python3-distutils (3.6.9-1~18.04) ...
正在设置 libitm1:amd64 (8.3.0-26ubuntu1~18.04) ...
正在设置 libpython3.6-stdlib:amd64 (3.6.9-1~18.04) ...
正在设置 libasan4:amd64 (7.5.0-3ubuntu1~18.04) ...
正在设置 libcilkrts5:amd64 (7.5.0-3ubuntu1~18.04) ...
正在设置 libubsan0:amd64 (7.5.0-3ubuntu1~18.04) ...
正在设置 python3.6-minimal (3.6.9-1~18.04) ...
正在设置 fakeroot (1.22-2ubuntu1) ...
update-alternatives: 使用 /usr/bin/fakeroot-sysv 来在自动模式中提供 /usr/bin/fakeroot (fakeroot)
正在设置 libgcc-7-dev:amd64 (7.5.0-3ubuntu1~18.04) ...
```

```
1 apt install python2.7
2 获取:2 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-stdlib
3 获取:3 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-minimal
4 获取:4 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7-minimal
5 获取:5 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7 amd64 2.7.18-0ubuntu1
```

```
6 已下载 4,845 kB, 耗时 1分 49秒 (44.4 kB/s)
7 (正在读取数据库 ... 系统当前共安装有 209779 个文件和目录。)
8 正准备解包 .../libpython2.7_2.7.17-1~18.04_amd64.deb ...
9 正在将 libpython2.7:amd64 (2.7.17-1~18.04) 解包到 (2.7.15-4ubuntu4~18.04.2) 上 ...
10 正准备解包 .../libpython2.7-stdlib_2.7.17-1~18.04_amd64.deb ...
11 正在将 libpython2.7-stdlib:amd64 (2.7.17-1~18.04) 解包到 (2.7.15-4ubuntu4~18.04.2) 上 ...
12 正准备解包 .../libpython2.7-minimal_2.7.17-1~18.04_amd64.deb ...
13 正在将 libpython2.7-minimal:amd64 (2.7.17-1~18.04) 解包到 (2.7.15-4ubuntu4~18.04.2) 上 ...
14 正在选中未选择的软件包 python2.7-minimal。
15 正准备解包 .../python2.7-minimal_2.7.17-1~18.04_amd64.deb ...
16 正在解包 python2.7-minimal (2.7.17-1~18.04) ...
17 正在选中未选择的软件包 python2.7。
18 正准备解包 .../python2.7_2.7.17-1~18.04_amd64.deb ...
19 正在解包 python2.7 (2.7.17-1~18.04) ...
20 正在处理用于 mime-support (3.60ubuntu1) 的触发器 ...
21 正在处理用于 desktop-file-utils (0.23-1ubuntu3.18.04.2) 的触发器 ...
22 正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 ...
23 正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
24 正在处理用于 gnome-menus (3.13.3-11ubuntu1.1) 的触发器 ...
25 正在设置 libpython2.7-minimal:amd64 (2.7.17-1~18.04) ...
26 正在设置 libpython2.7-stdlib:amd64 (2.7.17-1~18.04) ...
27 正在设置 python2.7-minimal (2.7.17-1~18.04) ...
28 Linking and byte-compiling packages for runtime python2.7...
29 正在设置 python2.7 (2.7.17-1~18.04) ...
30 正在设置 libpython2.7:amd64 (2.7.17-1~18.04) ...
31 正在处理用于 libc-bin (2.27-3ubuntu1) 的触发器 ...
32
33
34 =====
35
36 root@richardhu-virtual-machine:/etc/apt# apt install python-pip
37 正在读取软件包列表... 完成
38 正在分析软件包的依赖关系树
39 正在读取状态信息... 完成
40 下列软件包是自动安装的并且现在不需要了:
41   linux-headers-4.18.0-15 linux-headers-4.18.0-15-generic linux-image-4.18.0-15-gener
42   linux-modules-4.18.0-15-generic linux-modules-extra-4.18.0-15-generic
43 使用 'apt autoremove' 来卸载它(它们)。
44 将会同时安装下列软件:
45   libpython-all-dev libpython-dev libpython-stdlib libpython2.7-dev python python-all
46   python-asn1crypto python-cffi-backend python-crypto python-cryptography python-dbus
47   python-enum34 python-gi python-idna python-ipaddress python-keyring python-keyrings
48   python-pkg-resources python-secretstorage python-setuptools python-six python-wheel
49   python2.7-dev
50 建议安装:
51   python-doc python-tk python-crypto-doc python-cryptography-doc python-cryptography-
```

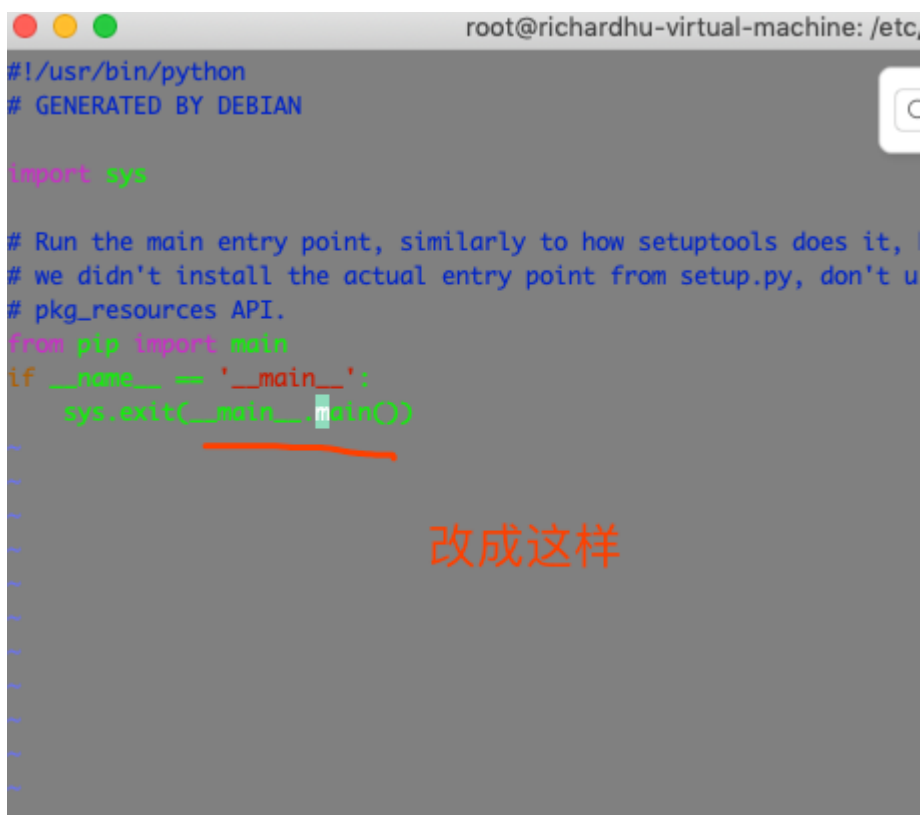


```
52 python-dbus-dbg python-dbus-doc python-enum34-doc python-gi-cairo libkf5wallet-bin
53 gir1.2-gnomekeyring-1.0 python-fs python-gdata python-keyczar python-secretstorage-
54 python-setuptools-doc
55 下列【新】软件包将被安装:
56 libpython-all-dev libpython-dev libpython-stdlib libpython2.7-dev python python-all
57 python-asn1crypto python-cffi-backend python-crypto python-cryptography python-dbus
58 python-enum34 python-gi python-idna python-ipaddress python-keyring python-keyrings
59 python-pip python-pkg-resources python-secretstorage python-setuptools python-six p
60 python-xdg python2.7-dev
61 升级了 0 个软件包, 新安装了 28 个软件包, 要卸载 0 个软件包, 有 314 个软件包未被升级。
62 需要下载 30.4 MB 的归档。
63 解压缩后会消耗 51.4 MB 的额外空间。
64 您希望继续执行吗? [Y/n] Y
65 正在选中未选择的软件包 python-wheel。
66 正准备解包 .../24-python-wheel_0.30.0-0.2_all.deb ...
67 正在解包 python-wheel (0.30.0-0.2) ...
68 正在选中未选择的软件包 python-xdg。
69 正准备解包 .../25-python-xdg_0.25-4ubuntu1_all.deb ...
70 正在解包 python-xdg (0.25-4ubuntu1) ...
71 正在设置 libpython-stdlib:amd64 (2.7.15~rc1-1) ...
72 正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
73 正在设置 libpython2.7-dev:amd64 (2.7.17-1~18.04) ...
74 正在设置 python2.7-dev (2.7.17-1~18.04) ...
75 正在设置 python (2.7.15~rc1-1) ...
76 正在设置 python-xdg (0.25-4ubuntu1) ...
77 正在设置 python-idna (2.6-1) ...
78 正在设置 libpython-dev:amd64 (2.7.15~rc1-1) ...
79 正在设置 python-asn1crypto (0.24.0-1) ...
80 正在设置 python-crypto (2.6.1-8ubuntu2) ...
81 正在设置 python-dev (2.7.15~rc1-1) ...
82 正在设置 python-wheel (0.30.0-0.2) ...
83 正在设置 libpython-all-dev:amd64 (2.7.15~rc1-1) ...
84 正在设置 python-pkg-resources (39.0.1-2) ...
85 正在设置 python-cffi-backend (1.11.5-1) ...
86 正在设置 python-gi (3.26.1-2ubuntu1) ...
87 正在设置 python-six (1.11.0-2) ...
88 正在设置 python-enum34 (1.1.6-2) ...
89 正在设置 python-dbus (1.2.6-1) ...
90 正在设置 python-ipaddress (1.0.17-1) ...
91 正在设置 python-pip (9.0.1-2.3~ubuntu1.18.04.1) ...
92 正在设置 python-all (2.7.15~rc1-1) ...
93 正在设置 python-setuptools (39.0.1-2) ...
94 正在设置 python-keyrings.alt (3.0-1) ...
95 正在设置 python-all-dev (2.7.15~rc1-1) ...
96 正在设置 python-cryptography (2.1.4-1ubuntu1.3) ...
97 正在设置 python-secretstorage (2.3.1-2) ...
```

```
98 正在设置 python-keyring (10.6.0-1) ...
99 =====
100
101 root@richardhu-virtual-machine:/etc/apt# pip install --upgrade pip
102 Requirement already up-to-date: pip in /usr/local/lib/python3.6/dist-packages (19.3.1)
103
104 oot@richardhu-virtual-machine:/etc/apt# pip2 install --upgrade pip
105 Cache entry deserialization failed, entry ignored
106 Collecting pip
107   Using cached https://files.pythonhosted.org/packages/00/b6/9cfa56b4081ad13874b0c6f9
108 Installing collected packages: pip
109   Found existing installation: pip 9.0.1
110     Not uninstalling pip at /usr/lib/python2.7/dist-packages, outside environment /us
111 Successfully installed pip-19.3.1
```

又有问题了

```
1 root@richardhu-virtual-machine:/etc/apt# pip3 -v
2 Traceback (most recent call last):
3   File "/usr/bin/pip3", line 9, in <module>
4     from pip import main
5 ImportError: cannot import name 'main'
6
7
```



```
#!/usr/bin/python
# GENERATED BY DEBIAN

import sys

# Run the main entry point, similarly to how setuptools does it,
# we didn't install the actual entry point from setup.py, don't u
# pkg_resources API.
from pip import main
if __name__ == '__main__':
    sys.exit(__main__.main())
```

改成这样

上面有问题,改成下面

```

import sys

# Run the main entry point, similarly to how setuptools does it, but
# we didn't install the actual entry point from setup.py, don't use the
# pkg_resources API.
from pip import main
if __name__ == '__main__':
    sys.exit(__main__.main())

```

还是有问题,下面改才对:

```

1 root@richardhu-virtual-machine:/etc/apt# vi /usr/bin/pip3
2

```

```

#!/usr/bin/python3
# GENERATED BY DEBIAN

import sys

# Run the main entry point, similarly to how setuptools does it, but be
# we didn't install the actual entry point from setup.py, don't use the
# pkg_resources API.
from pip import __main__
if __name__ == '__main__':
    sys.exit(__main__.main())

```

一定要注意单下横线和双下横线

需要修改的地方是两处,第一行一处,最后一行一处

一定要认真修改,亲测有效

之后运行pip3 --version就可以正常使用了

```

1 root@richardhu-virtual-machine:/etc/apt# pip2 --version
2 pip 19.3.1 from /usr/local/lib/python2.7/dist-packages/pip (python 2.7)

```

```
3 root@richardhu-virtual-machine:/etc/apt# pip3 --version
4 pip 19.3.1 from /usr/local/lib/python3.6/dist-packages/pip (python 3.6)
5 root@richardhu-virtual-machine:/etc/apt# pip --version
6 pip 19.3.1 from /usr/local/lib/python2.7/dist-packages/pip (python 2.7)
```

安装虚拟环境包

```
1 root@richardhu-virtual-machine:/etc/apt# pip install virtualenvwrapper
2 DEPRECATION: Python 2.7 will reach the end of its life on January 1st, 2020. Please up
3 Collecting virtualenvwrapper
4   Downloading https://files.pythonhosted.org/packages/c1/6b/2f05d73b2d2f2410b48b90d378
5   |████████████████████████████████████████| 337kB 16kB/s
6 Collecting stevedore
7   Downloading https://files.pythonhosted.org/packages/b1/e1/f5ddbd83f60b03f522f173c03e
8   |████████████████████████████████████████| 51kB 14kB/s
9 Collecting virtualenv
10  Downloading https://files.pythonhosted.org/packages/05/f1/2e07e8ca50e047b9cc9ad56cf4
11  |████████████████████████████████████████| 3.4MB 27kB/s
12 Collecting virtualenv-clone
13  Downloading https://files.pythonhosted.org/packages/ba/f8/50c2b7dbc99e05fce5e5b9d9a3
14 Collecting pbr!=2.1.0,>=2.0.0
15  Downloading https://files.pythonhosted.org/packages/7a/db/a968fd7beb9fe06901c1841cb2
16  |████████████████████████████████████████| 112kB 14kB/s
17 Requirement already satisfied: six>=1.10.0 in /usr/lib/python2.7/dist-packages (from s
18 Building wheels for collected packages: virtualenvwrapper
19   Building wheel for virtualenvwrapper (setup.py) ... done
20   Created wheel for virtualenvwrapper: filename=virtualenvwrapper-4.8.4-py2.py3-none-a
21   Stored in directory: /root/.cache/pip/wheels/70/d7/39/a522e494b0e145a1bec42f45a6e542
22 Successfully built virtualenvwrapper
23 Installing collected packages: pbr, stevedore, virtualenv, virtualenv-clone, virtualen
24 Successfully installed pbr-5.4.4 stevedore-1.31.0 virtualenv-16.7.9 virtualenv-clone-0
```

设置环境变量

```
1 root@richardhu-virtual-machine:~# vim .bashrc
2
3 export WORKON_HOME=$HOME/.virtualenvs
4 source /usr/local/bin/virtualenvwrapper.sh
5
```

esac

```

# enable color support of ls and also add handy aliases
if [ -x /usr/bin/dircolors ]; then
    test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"
    alias ls='ls --color=auto'
    #alias dir='dir --color=auto'
    #alias vdir='vdir --color=auto'

    alias grep='grep --color=auto'
    alias fgrep='fgrep --color=auto'
    alias egrep='egrep --color=auto'
fi

# some more ls aliases
alias ll='ls -alF'
alias la='ls -A'
alias l='ls -CF'

# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
#if [ -f /etc/bash_completion ] && ! shopt -oq posix; then
#    . /etc/bash_completion
#fi
export WORKON_HOME=$HOME/.virtualenvs
source /usr/local/bin/virtualenvwrapper.sh

```

101,43

虚

```

1 root@richardhu-virtual-machine:~# vim .bashrc
2 root@richardhu-virtual-machine:~# vim .bashrc
3 root@richardhu-virtual-machine:~# source ~/.bashrc
4 virtualenvwrapper.user_scripts creating /root/.virtualenvs/premkproject
5 virtualenvwrapper.user_scripts creating /root/.virtualenvs/postmkproject
6 virtualenvwrapper.user_scripts creating /root/.virtualenvs/initialize
7 virtualenvwrapper.user_scripts creating /root/.virtualenvs/premkvirtualenv
8 virtualenvwrapper.user_scripts creating /root/.virtualenvs/postmkvirtualenv
9 virtualenvwrapper.user_scripts creating /root/.virtualenvs/prermvirtualenv
10 virtualenvwrapper.user_scripts creating /root/.virtualenvs/postrmvirtualenv
11 virtualenvwrapper.user_scripts creating /root/.virtualenvs/predeactivate
12 virtualenvwrapper.user_scripts creating /root/.virtualenvs/postdeactivate
13 virtualenvwrapper.user_scripts creating /root/.virtualenvs/preactivate
14 virtualenvwrapper.user_scripts creating /root/.virtualenvs/postactivate
15 virtualenvwrapper.user_scripts creating /root/.virtualenvs/get_env_details

```

创建虚拟环境

```
1 root@richardhu-virtual-machine:~# which python3
2 /usr/bin/python3
3 root@richardhu-virtual-machine:~# mkvirtualenv --python=/usr/bin/python3 bbs-env
4 Running virtualenv with interpreter /usr/bin/python3
5 Already using interpreter /usr/bin/python3
6 Using base prefix '/usr'
7 New python executable in /root/.virtualenvs/bbs-env/bin/python3
8 Also creating executable in /root/.virtualenvs/bbs-env/bin/python
9 Installing setuptools, pip, wheel...
10 done.
11 virtualenvwrapper.user_scripts creating /root/.virtualenvs/bbs-env/bin/predeactivate
12 virtualenvwrapper.user_scripts creating /root/.virtualenvs/bbs-env/bin/postdeactivate
13 virtualenvwrapper.user_scripts creating /root/.virtualenvs/bbs-env/bin/preactivate
14 virtualenvwrapper.user_scripts creating /root/.virtualenvs/bbs-env/bin/postactivate
15 virtualenvwrapper.user_scripts creating /root/.virtualenvs/bbs-env/bin/get_env_details
16
```

安装git

```
1 (bbs-env) root@richardhu-virtual-machine:~# cd /srv
2 mkdir bbs
3 cd bbs
4 apt install git
5 下列【新】软件包将被安装：
6   git git-man liberror-perl
7 升级了 0 个软件包，新安装了 3 个软件包，要卸载 0 个软件包，有 314 个软件包未被升级。
8 需要下载 4,738 kB 的归档。
9 解压缩后会消耗 33.9 MB 的额外空间。
10 您希望继续执行吗？ [Y/n] Y
11 获取:1 http://cn.archive.ubuntu.com/ubuntu bionic/main amd64 liberror-perl all 0.17025
12 获取:2 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git-man all 1:2.1
13 获取:3 http://cn.archive.ubuntu.com/ubuntu bionic-updates/main amd64 git amd64 1:2.17.
14 已下载 4,738 kB，耗时 6秒 (861 kB/s)
15 正在选中未选择的软件包 liberror-perl。
16 (正在读取数据库 ... 系统当前共安装有 210811 个文件和目录。)
17 正准备解包 .../liberror-perl_0.17025-1_all.deb ...
18 正在解包 liberror-perl (0.17025-1) ...
19 正在选中未选择的软件包 git-man。
20 正准备解包 .../git-man_1%3a2.17.1-1ubuntu0.5_all.deb ...
21 正在解包 git-man (1:2.17.1-1ubuntu0.5) ...
22 正在选中未选择的软件包 git。
23 正准备解包 .../git_1%3a2.17.1-1ubuntu0.5_amd64.deb ...
24 正在解包 git (1:2.17.1-1ubuntu0.5) ...
```



```
25 正在设置 git-man (1:2.17.1-1ubuntu0.5) ...
26 正在设置 liberror-perl (0.17025-1) ...
27 正在处理用于 man-db (2.8.3-2ubuntu0.1) 的触发器 ...
28 正在设置 git (1:2.17.1-1ubuntu0.5) ...
29
```

下载代码

```
1 (bbs-env) root@richardhu-virtual-machine:/srv/bbs# git init
2 已初始化空的 Git 仓库于 /srv/bbs/.git/
3 #注意这里面由于没有在服务器上面设置ssh,故这里没有用git协议!
4 (bbs-env) root@richardhu-virtual-machine:/srv/bbs# git remote add origin https://gitee.com/richard1230/learning_forum_source_code
5 (bbs-env) root@richardhu-virtual-machine:/srv/bbs# git pull origin master
6 Username for 'https://gitee.com': richard1230
7 Password for 'https://richard1230@gitee.com':
8 remote: Counting objects: 516, done.
9 remote: Compressing objects: 100% (441/441), done.
10 remote: Total 516 (delta 58), reused 512 (delta 58)
11 接收对象中: 100% (516/516), 3.09 MiB | 779.00 KiB/s, 完成.
12 处理 delta 中: 100% (58/58), 完成.
13 来自 https://gitee.com/richard1230/learning_forum_source_code
14 * branch master -> FETCH_HEAD
15 * [新分支] master -> origin/master
16
```