Multiple Python interpreters on Linux

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Required packages

Debian-based distributions

```
$ sudo apt-get install build-essential checkinstall
libreadline-dev libncursesw5-dev libssl-dev libsqlite3-dev
tk-dev libgdbm-dev libc6-dev libbz2-dev libffi-dev zlib1g-dev
liblzma-dev libgdbm-compact-dev libnsl-dev
```

Other distributions
Please refer to your distribution documentation for finding the equivalent packages.

Compilation

Example with Python 3.13

```
$ wget https://www.python.org/ftp/python/3.13.0/python-3.13.0.tgz

$ tar -xvf python-3.13.0.tgz
$ cd python-3.13.0
$ sudo ./configure --enable-optimizations
$ make
$ sudo make altinstall
```

Free threaded with Python 3.14

Python 3.14 allows to disable the GIL.

```
$ sudo ./configure --enable-optimizations --disable-gil
```

Alternatives

Update

```
$ sudo update-alternatives --install
/usr/bin/python3 python /usr/bin/python3.13 1
--slave /usr/bin/pip3 pip /usr/bin/pip3.13
$ update-alternatives --config python
```

Configure

```
$ update-alternatives --config python
```