

### Instruction Sheet for Sandhi Installation Sandhi Team IIT Bombay



#### The procedure to install Sandhi in Ubuntu Linux OS

### 1 Pre-requisites

- 1. To follow the installation procedure, you need to be connected to the internet.
- 2. You must have a system with Linux OS Ubuntu version 12.04 or 14.04.
- 3. You must have Synaptic Package Manager installed on your machine.

#### 2 The procedure to install git

On Ubuntu 12.04 - open Terminal and type:

- 1. sudo add-apt-repository ppa:git-core/ppa -y
- 2. sudo apt-get update
- 3. sudo apt-get install git
- 4. git --version

On Ubuntu 14.04 - open Terminal and type:

1. sudo apt-get install git

This shall install git on your system.

Note: The git version should be 2.3.4 or higher.

## 3 The procedure to install Dependencies

On Ubuntu 12.04 - open Terminal and type:

1. sudo apt-get -y install cmake autoconf automake make libtool g++ python-dev swig pkg-config libboost1.48-all-dev libfftw3-dev libcppunit-dev libgsl0-dev libusb-dev sdcc libsdl1.2-dev python-wxgtk2.8 python-numpy python-cheetah python-lxml doxygen python-qt4 python-qwt5-qt4 libxi-dev libqt4-opengl-dev libqwt5-qt4-dev libfontconfig1-dev libxrender-dev python-serial python-matplotlib

On Ubuntu 14.04 - open Terminal and type:

1. sudo apt-get -y install cmake autoconf automake make libtool g++ python-dev swig pkg-config libboost1.55-all-dev libfftw3-dev libcppunit-dev libgsl0-dev libusb-dev sdcc libsdl1.2-dev python-wxgtk2.8 python-numpy python-cheetah python-lxml doxygen python-qt4 python-qwt5-qt4 libxi-dev libqt4-opengl-dev libqwt5-qt4-dev libfontconfig1-dev libxrender-dev python-serial python-matplotlib

This shall install the dependencies on your system.

## 4 The procedure to install and upgrade sciscipy

On Ubuntu 12.04 and 14.04- open Terminal and type:

- 1. git clone https://github.com/manojgudi/sciscipy-1.0.0.git
- 2. cd sciscipy-1.0.0/
- 3. sudo ./install

This shall install sciscipy on your system.

### 5 The procedure to upgrade scipy

On Ubuntu 12.04 - open Terminal and type:

1. sudo apt-get build-dep python-scipy

On Ubuntu 14.04 - open Terminal and type:

1. sudo apt-get install python-scipy

This shall install scipy on your system.

Please note that the scipy version should be 0.13.1 or higher.

#### 6 The procedure to build & compile Sandhi

On Ubuntu 12.04 & 14.04 - open Terminal and type:

- 1. git clone http://github.com/gnu-sandhi/sandhi.git
- 2. cd sandhi/
- 3. git submodule init
- 4. git submodule update
- 5. git submodule update --remote gr36
- 6. mkdir build
- 7. cd build/
- 8. cmake ../
- 9. make -j 2
- 10. sudo make install
- 11. sudo ldconfig

This shall install Sandhi on your system.

# 7 The procedure to install and upgrade sciscipy

On Ubuntu 12.04 and 14.04- open Terminal and type:

- 1. sandhi
- 2. If you have installed Sandhi as a root user then to open Sandhi interface type: sudo sandhi
- 3. Enter root password when prompted.

This shall open Sandhi interface on your system.