

## Basic Seismic Utilities (BSU)

This software has been compiled on a number of Linux systems (64 bit for sure), Mac Sierra OS 10.12.5, and Chrome book assuming you have developer mode. It has also been cross compiled with the Mingw32 tool chain on Linux for Microsoft Windows (these are static binaries, and install Gnuplot for best functionality or the graphics will be very limited).

BSU-3.0.2 has compiled on:

Debian 10

Ubuntu 20

Slackware

Arch Linux

CentOS 7 (best) and 8 (the OS needs improvement)

Chrome Book OS (developer mode only)

MacBook Pro by Apple

Redhat enterprise (will have to build cmake to build current plplot first)

### Source Code:

This is the preferred way to install BSU. The configure script is good for both Linux X11 and Mac OSX Darwin. Your mileage will vary on Mac OSX due to the possible alternatives installing dependencies (Fink, MacPort, Homebrew). To build from source, one typically will untar the file **bsu-3.0.2.tar.gz** in **/usr/local/src**, and then change into the directory **bsu-3.0.1**.

Then type the following commands:

```
configure <arguments may be required>
```

```
make
```

```
make install
```

BUT, the configure command may need some arguments if you are on some Linux system either later than the one I worked on, (Debian 10), or some other distribution. See the userguide \*.pdf file for hints on that topic.

### Tar Archive

- For All Linux and Macbook Pro (Debian, Ubuntu, Slackware, Arch Linux, etc.), go to the Linux-or-Mac directory and use the file **bsu-3.0.2.tar.gz**.

### Source Packages

- **Debian-10 Source**
  - **bsu\_3.0.2.orig.tar.gz**, **bsu\_3.0.2-1.debian.tar.xz**, and **bsu\_3.0.2-1.dsc**
- **RPM Source packages:**
  - CENTOS-7
    - **bsu-3.0.1-2.src.rpm** and **bsu-3.0.1+plplot-2.src.rpm**

Compiled binaries are included with this archive. *However, binaries may quickly become out of date as libraries and dependencies change.*

## Compiled Binaries:

### RPMS

- CENTOS-7
- CENTOS-8

### DEB

- Debian-10

### Microsoft Windows

- BSU\_EXEC-3.0.2.zip (will expand to EXEC. The \*.exe files are static compiled) The \*.exe files can be run in Powershell. Recommend Gnuplot and Windows Mingw32 be installed for best results.

**The User Guide is the place to go for most questions.**

Also see Quickstart in this directory.

## Security

GPG Detached Signatures.

1. Install my public key, 4812C85C.asc (see PUBLIC\_KEY directory). Follow the README me file instructions in the key directory.
2. MD5SUM. Issue the following command, should see OK's
  - md5sum -c MD5SUM
3. SHA256SUM. Issue the following command, should see OK's
  - Sha256sum SHA256SUM

-----BEGIN PGP PUBLIC KEY BLOCK-----

Version: GnuPG v1.4.6 (GNU/Linux)

```
mQGiBDxZ9GIRBADJ/p9510p5ubYwLhGZgMNJUeCp2rkMoA/jtxFqqaWERjvMKwW4
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=zS6T
```

-----END PGP PUBLIC KEY BLOCK-----

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