Basic Seismic Utilities (BSU)

This software has been compiled on a number of
Linux systems (64 bit for sure), Mac Sienna 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-3.0.3 has compiled on:
Debian 11, 12
Ubuntu 20
Slackware
Arch Linux
RedHat Fedora-38
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-3.0.3.tar.gz** in
/usr/local/src, and then change into the directory bsu-3.0.3.

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 12), 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-3.0.3.tar.gz.

Source Packages

- **Debian-12 Source**
    - bsu_3.0.3.orig.tar.gz
    - bsu_3.0.3-1.debian.tar.xz
    - bsu_3.0.3-1.dsc
- **RPM Source packages:**

    - **bsu-3.0.3-1.src.rpm**

    - **bsu-3.0.3+plplot-1.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become out of date as libraries and dependencies change.*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
- Red Hat Fedora-38
  - bsu-3.0.3-1.x86_64.rpm
  - bsu-3.0.3+plplot-1.x86_64.rpm

DEB
- Debian-12
  - bsu_3.0.3-1_amd64.deb
  - bsu_3.0.3-1+plplot_amd64.deb

Microsoft Windows
- BSU_EXEC-3.0.3.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" and "Running BSU" are the places 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)

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=zS6T
-----END PGP PUBLIC KEY BLOCK-----

Dr. Paul Michaels, PE <paulmichaels@boisestate.edu> Fri 23 Oct 2020 03:44:48 PM MDT