How to run Brainix on Unix-like Operating Systems and Bochs

pqnelson

June 19, 2007

OK, you have downloaded your copy of brainix by first installing subversion (you need to install subversion!), then type in:

```
$ svn checkout http://brainix.googlecode.com/svn/trunk/ brainix
```

It should start downloading. You wait until its downloading is complete. I assume that the working directory is `/home/your_user_name_here/`. You type into the command line:

```
$ mkdir mnt
```

Then go into the Brainix directory. Create several scripts:

```
#!/usr/bin/bash

make clean
make
```

Code fragment 1: brainix/compile.sh

The `compile.sh` script.

```
#!/usr/bin/bash

sudo mount -o loop Bootdisk.img ../mnt/
sudo cp ./bin/Brainix ../mnt
sudo rm ../mnt/Brainix.gz
sudo gzip ../mnt/Brainix
sudo umount ../mnt/
```

Code fragment 2: brainix/update_bootdisk.sh

This is the `update_bootdisk` script that updates the boot disk with the Brainix binary image (the Brainix binary image is made after compilation and put in /brainix/bin). Now, to make a bochs `bochsrc` file. I have included a `dot-bochsrc` file in this documentation (its external to this file), I use it to run Brainix in bochs.

Now to put it all together:

```
#!/usr/bin/bash

sh compile.sh
sudo sh update-bootdisk.sh
bochs -f dot-bochsrc
```

Code fragment 3: brainix/run.sh

This is the script you invoke in order to compile and run the compiled image in bochs.

I have included sample scripts **THAT YOU NEED TO MOVE TO THE BRAINIX FOLDER**, i.e. type into the command line:

```
$ mv compile.sh ../ $ mv update-bootdisk.sh ../ $ mv dot-bochsrc ../
$ mv run.sh ../
```