1. Download bochs and pintos

- 1. download bochs-2.6.7.tar.gz
- 2. download pintos.tar.gz

2. Use the tar command to decompress two files separately

> tar -zxvf bochs-2.6.7.tar.gz
> tar -zxvf pintos.tar.gz

3. Install the following software

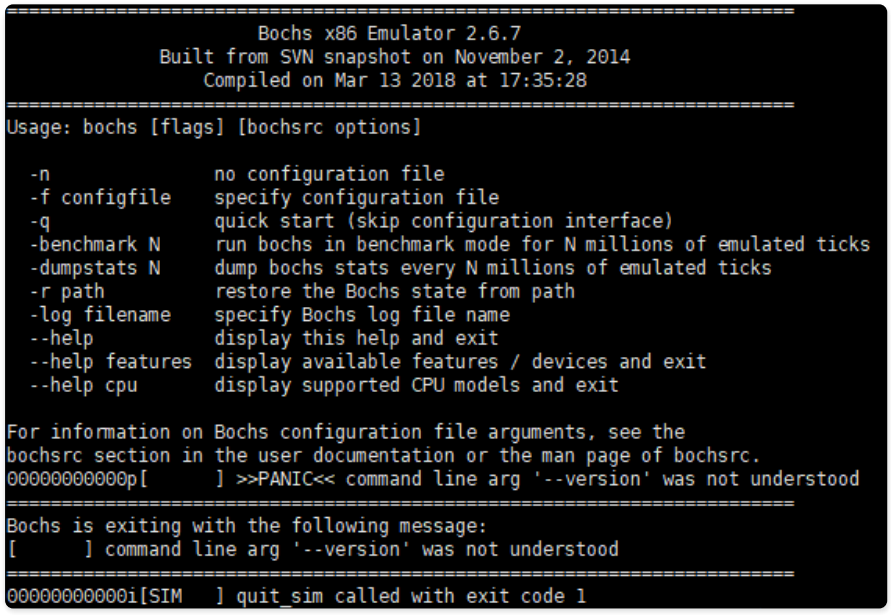
> sudo apt-get install buid-essential
> sudo apt-get install xorg-dev
> sudo apt-get install bison
> sudo apt-get install libgtk2.0-dev

4. Install bochs

> cd bochs-2.6.7
> ./configure --with-nogui --enable-gdb-stub
> make
> sudo make install

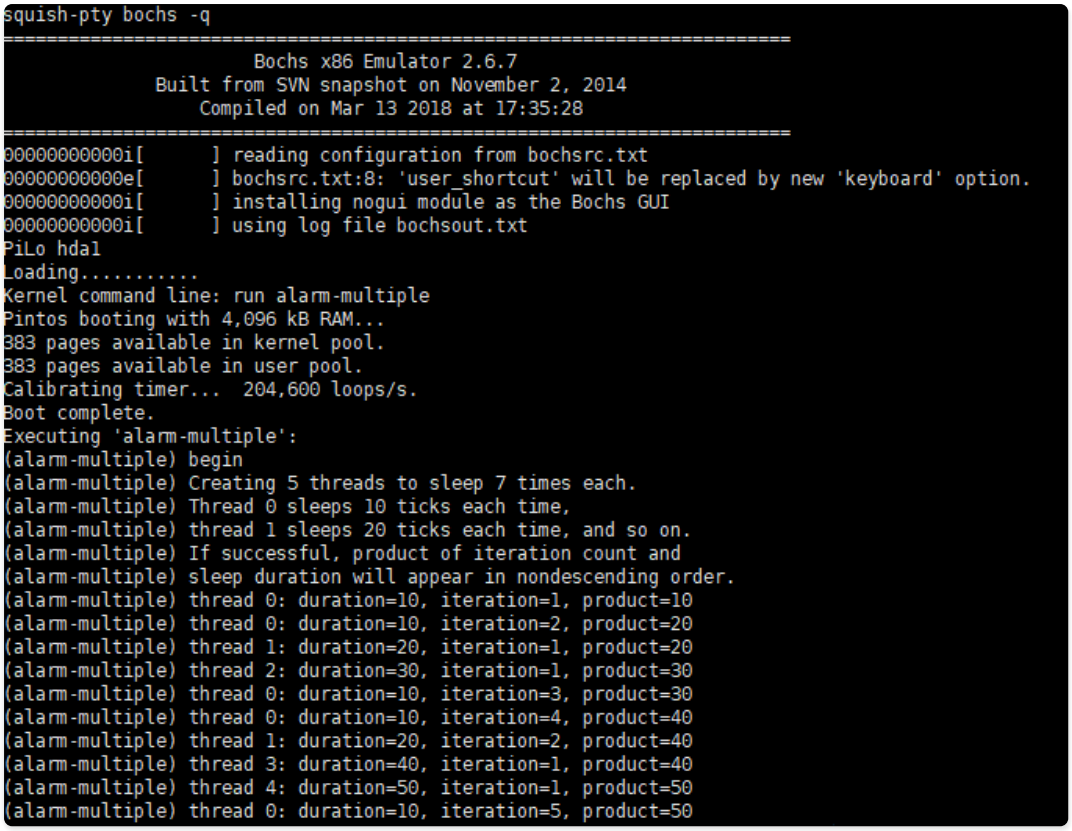
test bochs

> bochs --version



5. Running pintos on bochs

> cd pintos/src/threads
> make
> cd build
> …/…/utils/pintos – run alarm-multiple


squish-pty bochs -q
Bochs x86 Emulator 2.6.7
Built from SVN snapshot on November 2, 2014
Compiled on Mar 13 2018 at 17:35:28
00000000000i[ ] reading configuration from bochsrc.txt
00000000000e[ ] bochsrc.txt:8: 'user_shortcut' will be replaced by new 'keyboard' option.
00000000000i[ ] installing nogui module as the Bochs GUI
00000000000i[ ] using log file bochsout.txt
PiLo hda1
Loading.....
Kernel command line: run alarm-multiple
Pintos booting with 4,096 kB RAM...
383 pages available in kernel pool.
383 pages available in user pool.
Calibrating timer... 204,600 loops/s.
Boot complete.
Executing 'alarm-multiple':
(alarm-multiple) begin
(alarm-multiple) Creating 5 threads to sleep 7 times each.
(alarm-multiple) Thread 0 sleeps 10 ticks each time,
(alarm-multiple) thread 1 sleeps 20 ticks each time, and so on.
(alarm-multiple) If successful, product of iteration count and
(alarm-multiple) sleep duration will appear in nondescending order.
(alarm-multiple) thread 0: duration=10, iteration=1, product=10
(alarm-multiple) thread 0: duration=10, iteration=2, product=20
(alarm-multiple) thread 1: duration=20, iteration=1, product=20
(alarm-multiple) thread 2: duration=30, iteration=1, product=30
(alarm-multiple) thread 0: duration=10, iteration=3, product=30
(alarm-multiple) thread 0: duration=10, iteration=4, product=40
(alarm-multiple) thread 1: duration=20, iteration=2, product=40
(alarm-multiple) thread 3: duration=40, iteration=1, product=40
(alarm-multiple) thread 4: duration=50, iteration=1, product=50
(alarm-multiple) thread 0: duration=10, iteration=5, product=50