PROJECT 1
COMP 7506
January 19, 2018

**Installing CentOS** 

# Table of Contents

2.1	2
2.2	13
	24
2.3.2	24
2.3.3	24
2.3.4	24
Conclusion	30

### 2.1

# I set the root password during the installation

```
Script started on Wed 17 Jan 2018 07:40:20 PM CST
```

]777;notify;Command

completed;exit ]0;root@localhost:~ ]7;file://localhost.localdomain/root [?1034h[root@localhost ~]#

[K[root@localhost ~]#

[K[root@localhost ~]#

[K[root@localhost ~]#

[K[root@localhost ~]# yum -y install gx [Kcc

Loaded plugins: fastestmirror, langpacks

base | 3.6 kB 00:00

extras | 3.4 kB 00:00

updates | 3.4 kB 00:00

updates/7/x86\_64/primary\_d 30% [====- ] 0.0 B/s | 1.6 MB --:-- ETA

updates/7/x86\_64/primary\_db

| 5.2 MB 00:00

Loading mirror speeds from cached hostfile

- \* base: mirror.compevo.com
- \* extras: repos-tx.psychz.net
- \* updates: mirrors.lga7.us.voxel.net

Package gcc-4.8.5-16.el7 4.1.x86 64 already installed and latest version

Nothing to do

]777;notify;Command completed;yum -y install

gcc ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# yum -y install gcc-c++

Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile

- \* base: mirror.fdcservers.net
- \* extras: mirrors.centos.webair.com
- \* updates: ftp.linux.ncsu.edu

Package gcc-c++-4.8.5-16.el7\_4.1.x86\_64 already installed and latest version

Nothing to do

]777;notify;Command completed;yum -y install gcc-

c++ ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# yum -y install gcc-

c++ [K [K [K [K [K Kvim-enhanced

Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile

- \* base: centos.vwtonline.net
- \* extras: mirrors.centos.webair.com

\* updates: mirror.ash.fastserv.com

Package 2:vim-enhanced-7.4.160-2.el7.x86 $\_$ 64 already installed and latest version Nothing to do

]777;notify;Command completed;yum -y install vim-

enhanced ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost~]# yum -y

install vim-enhanced [K [Kemacs

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

- \* base: centos.vwtonline.net
- \* extras: repos-tx.psychz.net
- \* updates: mirrors.lga7.us.voxel.net

#### **Resolving Dependencies**

- --> Running transaction check
- ---> Package emacs.x86 64 1:24.3-20.el7 4 will be installed
- --> Processing Dependency: emacs-common = 1:24.3-20.el7\_4 for package: 1:emacs-24.3-20.el7\_4.x86\_64
- --> Processing Dependency: libotf.so.0()(64bit) for package: 1:emacs-24.3-20.el7\_4.x86\_64
- --> Processing Dependency: libMagickWand.so.5()(64bit) for package: 1:emacs-24.3-20.el7\_4.x86\_64
- --> Processing Dependency: libMagickCore.so.5()(64bit) for package: 1:emacs-24.3-20.el7\_4.x86\_64
- --> Running transaction check
- ---> Package ImageMagick.x86\_64 0:6.7.8.9-15.el7\_2 will be installed
- --> Processing Dependency: libwmflite-0.2.so.7()(64bit) for package: ImageMagick-6.7.8.9-
- 15.el7 2.x86 64
- --> Processing Dependency: libImath.so.6()(64bit) for package: ImageMagick-6.7.8.9-15.el7\_2.x86\_64
- --> Processing Dependency: libIlmThread.so.6()(64bit) for package: ImageMagick-6.7.8.9-
- 15.el7 2.x86 64
- --> Processing Dependency: libIlmImf.so.7()(64bit) for package: ImageMagick-6.7.8.9-15.el7\_2.x86\_64
- --> Processing Dependency: liblexMath.so.6()(64bit) for package: ImageMagick-6.7.8.9-15.el7\_2.x86\_64
- --> Processing Dependency: liblex.so.6()(64bit) for package: ImageMagick-6.7.8.9-15.el7 2.x86 64
- --> Processing Dependency: libHalf.so.6()(64bit) for package: ImageMagick-6.7.8.9-15.el7\_2.x86\_64
- ---> Package emacs-common.x86\_64 1:24.3-20.el7\_4 will be installed
- --> Processing Dependency: liblockfile.so.1()(64bit) for package: 1:emacs-common-24.3-20.el7\_4.x86\_64
- ---> Package libotf.x86\_64 0:0.9.13-4.el7 will be installed
- --> Processing Dependency: libXaw.so.7()(64bit) for package: libotf-0.9.13-4.el7.x86\_64
- --> Running transaction check
- ---> Package OpenEXR-libs.x86\_64 0:1.7.1-7.el7 will be installed
- ---> Package ilmbase.x86 64 0:1.0.3-7.el7 will be installed
- ---> Package libXaw.x86\_64 0:1.0.13-4.el7 will be installed
- ---> Package liblockfile.x86\_64 0:1.08-17.el7 will be installed
- ---> Package libwmf-lite.x86 64 0:0.2.8.4-41.el7 1 will be installed
- --> Finished Dependency Resolution

#### Dependencies Resolved

```
emacs
              x86 64
                         1:24.3-20.el7_4
                                            updates
                                                        2.9 M
Installing for dependencies:
ImageMagick
                 x86 64
                            6.7.8.9-15.el7_2
                                                          2.1 M
                                                base
                            1.7.1-7.el7
OpenEXR-libs
                 x86_64
                                             base
                                                       217 k
                                                              20 M
emacs-common
                   x86 64
                              1:24.3-20.el7 4
                                                  updates
ilmbase
              x86 64
                         1.0.3-7.el7
                                                    100 k
                                          base
libXaw
              x86 64
                                                    192 k
                         1.0.13-4.el7
                                          base
liblockfile
              x86 64
                                                     21 k
                         1.08-17.el7
                                          base
libotf
            x86_64
                        0.9.13-4.el7
                                                    92 k
                                         base
libwmf-lite
               x86 64
                          0.2.8.4-41.el7 1
                                             base
                                                        66 k
```

#### **Transaction Summary**

\_\_\_\_\_\_

#### Install 1 Package (+8 Dependent packages)

Total download size: 26 M

Installed size: 92 M Downloading packages:

(1/9): OpenEXR-libs-1.7.1-7.el7.x86\_64.rpm | 217 kB 00:00

(2/9): libXaw-1.0.13-4.el7.x86\_64.rpm | 192 kB 00:00

(3/9): liblockfile-1.08-17.el7.x86\_64.rpm | 21 kB 00:00

(4/9): ilmbase-1.0.3-7.el7.x86 64.rpm | 100 kB 00:00

(6/9): emacs-24.3-20.el7\_4 5% [- ] 0.0 B/s | 1.4 MB --:-- ETA

(5/9): libotf-0.9.13-4.el7.x86\_64.rpm | 92 kB 00:00

(6/9): ImageMagick-6.7.8.9-15.el7\_2.x86\_64.rpm | 2.1 MB 00:00

(7/9): libwmf-lite-0.2.8.4-41.el7\_1.x86\_64.rpm | 66 kB 00:00

(9/9): emacs-common-24.3-2 20% [=== ] 4.7 MB/s | 5.5 MB 00:04 ETA

(8/9): emacs-24.3-20.el7\_4.x86\_64.rpm | 2.9 MB 00:00

(9/9): emacs-common-24.3-2 28% [====- ] 4.7 MB/s | 7.5 MB 00:03 ETA

(9/9): emacs-common-24.3-2 31% [===== ] 4.6 MB/s | 8.2 MB 00:03 ETA

(9/9): emacs-common-24.3-2 36% [=====- ] 4.3 MB/s | 9.5 MB 00:03 ETA

(9/9): emacs-common-24.3-2 38% [====== ] 4.1 MB/s | 10 MB 00:03 ETA

(9/9): emacs-common-24.3-2 39% [=====	] 3.9 MB/s   10 MB 00:03 ETA
(9/9): emacs-common-24.3-2 41% [=====	] 3.8 MB/s   11 MB 00:04 ETA
(9/9): emacs-common-24.3-2 43% [=====	] 3.6 MB/s   11 MB 00:04 ETA
(9/9): emacs-common-24.3-2 44% [======	] 3.5 MB/s   12 MB 00:04 ETA
(9/9): emacs-common-24.3-2 46% [======	] 3.4 MB/s   12 MB 00:04 ETA
(9/9): emacs-common-24.3-2 48% [======	] 3.2 MB/s   13 MB 00:04 ETA
(9/9): emacs-common-24.3-2 49% [======	] 3.1 MB/s   13 MB 00:04 ETA
(9/9): emacs-common-24.3-2 51% [======	] 3.0 MB/s   14 MB 00:04 ETA
(9/9): emacs-common-24.3-2 53% [======	] 2.9 MB/s   14 MB 00:04 ETA
(9/9): emacs-common-24.3-2 55% [======	] 2.8 MB/s   14 MB 00:04 ETA
(9/9): emacs-common-24.3-2 56% [======	] 2.7 MB/s   15 MB 00:04 ETA
(9/9): emacs-common-24.3-2 58% [======	] 2.6 MB/s   15 MB 00:04 ETA
(9/9): emacs-common-24.3-2 59% [=======	] 2.6 MB/s   16 MB 00:04 ETA
(9/9): emacs-common-24.3-2 61% [=======	] 2.5 MB/s   16 MB 00:04 ETA
(9/9): emacs-common-24.3-2 62% [======	= ] 2.4 MB/s   16 MB 00:04 ETA
(9/9): emacs-common-24.3-2 64% [======	= ] 2.3 MB/s   17 MB 00:04 ETA
(9/9): emacs-common-24.3-2 65% [======	=- ] 2.3 MB/s   17 MB 00:03 ETA
(9/9): emacs-common-24.3-2 67% [=======	=- ] 2.2 MB/s   18 MB 00:03 ETA
(9/9): emacs-common-24.3-2 68% [======	=- ] 2.1 MB/s   18 MB 00:03 ETA
(9/9): emacs-common-24.3-2 69% [======	== ] 2.0 MB/s   18 MB 00:03 ETA
(9/9): emacs-common-24.3-2 70% [=======	== ] 2.0 MB/s   18 MB 00:03 ETA
(9/9): emacs-common-24.3-2 71% [=======	==- ] 1.9 MB/s   19 MB 00:03 ETA
(9/9): emacs-common-24.3-2 72% [=======	==- ] 1.8 MB/s   19 MB 00:03 ETA
(9/9): emacs-common-24.3-2 74% [=======	==- ] 1.8 MB/s   19 MB 00:03 ETA

```
(9/9): emacs-common-24.3-2 75% [======== ] 1.7 MB/s | 20 MB 00:03 ETA
(9/9): emacs-common-24.3-2 76% [======= ] 1.7 MB/s | 20 MB 00:03 ETA
(9/9): emacs-common-24.3-2 77% [======== ] 1.6 MB/s | 20 MB 00:03 ETA
(9/9): emacs-common-24.3-2 78% [========= ] 1.6 MB/s | 21 MB 00:03 ETA
(9/9): emacs-common-24.3-2 80% [========= ] 1.6 MB/s | 21 MB 00:03 ETA
(9/9): emacs-common-24.3-2 81% [======== ] 1.6 MB/s | 21 MB 00:03 ETA
(9/9): emacs-common-24.3-2 83% [======== ] 1.5 MB/s | 22 MB 00:02 ETA
(9/9): emacs-common-24.3-2 85% [========= ] 1.5 MB/s | 22 MB 00:02 ETA
(9/9): emacs-common-24.3-2 86% [========= ] 1.5 MB/s | 23 MB 00:02 ETA
(9/9): emacs-common-24.3-2 87% [======== ] 1.5 MB/s | 23 MB 00:02 ETA
(9/9): emacs-common-24.3-2 89% [======== ] 1.5 MB/s | 23 MB 00:01 ETA
(9/9): emacs-common-24.3-2 90% [======= ] 1.4 MB/s | 24 MB 00:01 ETA
(9/9): emacs-common-24.3-2 91% [========== ] 1.4 MB/s | 24 MB 00:01 ETA
(9/9): emacs-common-24.3-2 93% [======== ] 1.4 MB/s | 24 MB 00:01 ETA
(9/9): emacs-common-24.3-2 94% [========= ] 1.4 MB/s | 25 MB 00:00 ETA
(9/9): emacs-common-24.3-2 96% [=========] 1.4 MB/s | 25 MB 00:00 ETA
(9/9): emacs-common-24.3-2 98% [========] 1.4 MB/s | 26 MB 00:00 ETA
(9/9): emacs-common-24.3-20.el7_4.x86_64.rpm
                                                | 20 MB 00:15
Total
                         1.7 MB/s | 26 MB 00:15
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
                                                ] 1/9
Installing: ilmbase-1.0.3-7.el7.x86 64 [
Installing: ilmbase-1.0.3-7.el7.x86_64 [###
                                                  ] 1/9
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Installing: ilmbase-1.0.3-7.el7.x86 64 [######################## ] 1/9
Installing: ilmbase-1.0.3-7.el7.x86 64 [######################## ] 1/9
Installing: ilmbase-1.0.3-7.el7.x86 64
                                  1/9
Installing: OpenEXR-libs-1.7.1-7.el7.x86 [
                                 12/9
Installing: OpenEXR-libs-1.7.1-7.el7.x86 [##
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Installing: OpenEXR-libs-1.7.1-7.el7.x86 [####
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Installing: OpenEXR-libs-1.7.1-7.el7.x86 [######
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Installing: OpenEXR-libs-1.7.1-7.el7.x86 [#######
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Installing: OpenEXR-libs-1.7.1-7.el7.x86 [#########
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Installing: OpenEXR-libs-1.7.1-7.el7.x86 [########################### ] 2/9
Installing: OpenEXR-libs-1.7.1-7.el7.x86 [####################### ] 2/9
Installing: OpenEXR-libs-1.7.1-7.el7.x86 [####################### ] 2/9
Installing: OpenEXR-libs-1.7.1-7.el7.x86 64
                                   2/9
Installing: liblockfile-1.08-17.el7.x86 [
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Installing: liblockfile-1.08-17.el7.x86 [###################### ] 3/9
Installing: liblockfile-1.08-17.el7.x86_ [###################### ] 3/9
Installing: liblockfile-1.08-17.el7.x86_ [###################### ] 3/9
Installing: liblockfile-1.08-17.el7.x86 64
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Installing: 1:emacs-common-24.3-20.el7 4 [
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Installing: 1:emacs-common-24.3-20.el7 4 [#
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Installing: 1:emacs-common-24.3-20.el7 4 [##
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Installing: 1:emacs-common-24.3-20.el7 4 [###
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Installing: 1:emacs-common-24.3-20.el7 4 [####
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Installing: 1:emacs-common-24.3-20.el7 4 [#####
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Installing: 1:emacs-common-24.3-20.el7_4 [######
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Installing: 1:emacs-common-24.3-20.el7 4 [######
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                                      ] 4/9
Installing: 1:emacs-common-24.3-20.el7_4 [#######
Installing: 1:emacs-common-24.3-20.el7 4 [########
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Installing: 1:emacs-common-24.3-20.el7 4 [######################### ] 4/9
Installing: 1:emacs-common-24.3-20.el7 4 [####################### ] 4/9
Installing: 1:emacs-common-24.3-20.el7 4 [########################### ] 4/9
Installing: 1:emacs-common-24.3-20.el7_4.x86_64
                               4/9
Installing: libXaw-1.0.13-4.el7.x86 64 [
                           ] 5/9
Installing: libXaw-1.0.13-4.el7.x86 64 [####
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Installing: libXaw-1.0.13-4.el7.x86_64 [#######
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Installing: libXaw-1.0.13-4.el7.x86 64 [############
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Installing: libXaw-1.0.13-4.el7.x86 64 [######################### ] 5/9
Installing: libXaw-1.0.13-4.el7.x86 64
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Installing: libotf-0.9.13-4.el7.x86 64 [
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Installing: libotf-0.9.13-4.el7.x86 64 [####
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Installing: libotf-0.9.13-4.el7.x86_64 [#####
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Installing: libotf-0.9.13-4.el7.x86_64 [######
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Installing: libotf-0.9.13-4.el7.x86 64 [########################## ] 6/9
Installing: libotf-0.9.13-4.el7.x86 64
                           6/9
Installing : libwmf-lite-0.2.8.4-41.el7_1 [
                           17/9
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Installing: libwmf-lite-0.2.8.4-41.el7_1 [###################### ] 7/9
Installing: libwmf-lite-0.2.8.4-41.el7_1 [####################### ] 7/9
Installing: libwmf-lite-0.2.8.4-41.el7 1.x86 64
                             7/9
                            18/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [
Installing: ImageMagick-6.7.8.9-15.el7 2 [#
                            ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [##
                            ] 8/9
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Installing: ImageMagick-6.7.8.9-15.el7 2 [###
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Installing: ImageMagick-6.7.8.9-15.el7 2 [####
                              ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [#####
                              18/9
Installing: ImageMagick-6.7.8.9-15.el7_2 [######
                              ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [######
                               ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [#######
                               ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [########
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Installing : ImageMagick-6.7.8.9-15.el7_2 [##################### ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [####################### ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [###################### ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2 [######################## ] 8/9
Installing: ImageMagick-6.7.8.9-15.el7 2.x86 64
                               8/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [
                            ] 9/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [#
                             19/9
Installing: 1:emacs-24.3-20.el7_4.x86_64 [##
                             19/9
Installing: 1:emacs-24.3-20.el7_4.x86_64 [###
                             ] 9/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [####
                              19/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [#####
                              19/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [######
                              19/9
Installing: 1:emacs-24.3-20.el7_4.x86_64 [#######
                               ] 9/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [########
                               19/9
Installing: 1:emacs-24.3-20.el7_4.x86_64 [#########
                               ] 9/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [#########
                                ] 9/9
Installing: 1:emacs-24.3-20.el7 4.x86 64 [###########
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```

19/9 19/9 19/9 ] 9/9 ] 9/9 Installing: 1:emacs-24.3-20.el7 4.x86 64 [###################### ] 9/9 Installing: 1:emacs-24.3-20.el7\_4.x86\_64 [###################### ] 9/9 Installing: 1:emacs-24.3-20.el7\_4.x86\_64 [########################## ] 9/9 Installing: 1:emacs-24.3-20.el7 4.x86 64

Verifying: OpenEXR-libs-1.7.1-7.el7.x86 64 1/9

Verifying: libwmf-lite-0.2.8.4-41.el7 1.x86 64 2/9

Verifying: libXaw-1.0.13-4.el7.x86 64 3/9

Verifying: liblockfile-1.08-17.el7.x86\_64 4/9

Verifying: libotf-0.9.13-4.el7.x86\_64 5/9

6/9 Verifying: ilmbase-1.0.3-7.el7.x86 64

7/9 Verifying: 1:emacs-24.3-20.el7\_4.x86\_64

Verifying: ImageMagick-6.7.8.9-15.el7 2.x86 64 8/9

9/9 Verifying: 1:emacs-common-24.3-20.el7 4.x86 64

Installed:

emacs.x86\_64 1:24.3-20.el7\_4

#### Dependency Installed:

ImageMagick.x86\_64 0:6.7.8.9-15.el7\_2 OpenEXR-libs.x86\_64 0:1.7.1-7.el7 emacs-common.x86 64 1:24.3-20.el7 4 ilmbase.x86 64 0:1.0.3-7.el7 libXaw.x86 64 0:1.0.13-4.el7 liblockfile.x86 64 0:1.08-17.el7 libotf.x86 64 0:0.9.13-4.el7 libwmf-lite.x86 64 0:0.2.8.4-41.el7 1

#### Complete!

]777;notify;Command completed;yum -y install

emacs ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost~]# yum -y install

emacs [K [K [K [Kgdb

Loaded plugins: fastestmirror, langpacks

Existing lock /var/run/yum.pid: another copy is running as pid 56164. Another app is currently holding the yum lock; waiting for it to exit...

The other application is: PackageKit Memory: 29 M RSS (1.4 GB VSZ)

Started: Wed Jan 17 20:08:25 2018 - 00:05 ago

State: Sleeping, pid: 56164

Another app is currently holding the yum lock; waiting for it to exit...

The other application is: PackageKit Memory: 29 M RSS (1.4 GB VSZ)

Started: Wed Jan 17 20:08:25 2018 - 00:07 ago

State: Sleeping, pid: 56164

Loading mirror speeds from cached hostfile

- \* base: mirror.dal10.us.leaseweb.net
- \* extras: reflector.westga.edu
- \* updates: mirror.ash.fastserv.com

Package gdb-7.6.1-100.el7.x86\_64 already installed and latest version

Nothing to do

]777;notify;Command completed;yum -y install

 $gdb \quad ]0; root@localhost:^{\sim} \quad ]7; file://localhost.localdomain/root \quad [root@localhost\,^{\sim}] \# \ yum \ -y \ installocalhost. ]$ 

gdb [K [K [Kethtool

Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile

- \* base: mirror.dal10.us.leaseweb.net
- \* extras: bay.uchicago.edu
- \* updates: mirrors.lga7.us.voxel.net

Package 2:ethtool-4.8-1.el7.x86\_64 already installed and latest version

Nothing to do

]777;notify;Command completed;yum -y install

ethtool ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# yum -y install

ethtool [K [K [K [K [K Khdparm

Loaded plugins: fastestmirror, langpacks

Loading mirror speeds from cached hostfile

- \* base: mirrors.usinternet.com
- \* extras: reflector.westga.edu
- \* updates: ftp.linux.ncsu.edu

**Resolving Dependencies** 

- --> Running transaction check
- ---> Package hdparm.x86\_64 0:9.43-5.el7 will be installed
- --> Finished Dependency Resolution

#### Dependencies Resolved

Package Arch Version Repository Size

Installing:

hdparm x86\_64 9.43-5.el7 base 83 k

**Transaction Summary** 

\_\_\_\_\_\_

Install 1 Package

Total download size: 83 k

Installed size: 152 k Downloading packages: hdparm-9.43-5.el7.x86\_64.rpm | 83 kB 00:00 Running transaction check Running transaction test Transaction test succeeded Running transaction Installing: hdparm-9.43-5.el7.x86 64 [ 11/1 ] 1/1 11/1 ] 1/1 Installing : hdparm-9.43-5.el7.x86\_64 [######################## ] 1/1 Installing: hdparm-9.43-5.el7.x86\_64 [########################## ] 1/1 Installing: hdparm-9.43-5.el7.x86 64 [########################### ] 1/1 Installing: hdparm-9.43-5.el7.x86 64 1/1 Verifying: hdparm-9.43-5.el7.x86 64 1/1 Installed: hdparm.x86\_64 0:9.43-5.el7 Complete! ]777;notify;Command completed;yum -y install hdparm ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# yum -y install hdparm [K [K [K [K [Kpciutils Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile \* base: mirror.dal10.us.leaseweb.net \* extras: reflector.westga.edu \* updates: ftp.linux.ncsu.edu Package pciutils-3.5.1-2.el7.x86\_64 already installed and latest version Nothing to do ]777;notify;Command completed;yum -y install pciutils ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# yum -y install pciutils [K [K [K [K [K [K K]] Loaded plugins: fastestmirror, langpacks Loading mirror speeds from cached hostfile \* base: centos.gbeservers.com \* extras: reflector.westga.edu \* updates: ftp.linux.ncsu.edu Package file-5.11-33.el7.x86\_64 already installed and latest version Nothing to do

file ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# exit

]777;notify;Command completed;yum -y install

exit

Script done on Wed 17 Jan 2018 08:09:34 PM CST

### 2.2

Script started on Wed 17 Jan 2018 08:11:26 PM CST ]777;notify;Command completed;exit ]0;root@localhost:~ ]7;file://localhost.localdomain/root [?1034h[root@localhost ~]# more /proc/cpuinfo processor : 0 vendor\_id : AuthenticAMD cpu family : 21 model : 2 model name : AMD FX(tm)-8350 Eight-Core Processor stepping microcode : 0x6000822 cpu MHz : 4012.617 cache size : 2048 KB physical id : 0 siblings: 2 core id : 0 cpu cores : 2 : 0 apicid initial apicid : 0 fpu : yes fpu exception : yes cpuid level : 13 wp : yes flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr\_opt pdpe1gb rdtscp Im constant\_tsc art rep\_good nopl tsc\_reliable nonstop\_tsc aperfmperf pni pclmu lgdg ssse3 fma cx16 sse4 1 sse4 2 x2apic popcnt aes xsave avx f16c hypervisor la hf\_lm cmp\_legacy extapic cr8\_legacy abm sse4a misalignsse 3dnowprefetch osvw xop fma4 tbm bmi1 arat bogomips : 8026.61 TLB size: 1536 4K pages [7m--More--(0%) [27m ſΚ ...skipping 27 lines clflush size : 64 cache\_alignment : 64 address sizes : 42 bits physical, 48 bits virtual power management: processor : 2

vendor id : AuthenticAMD

cpu family : 21

```
model
               : 2
model name
               : AMD FX(tm)-8350 Eight-Core Processor
stepping
               : 0
microcode
               : 0x6000822
                      : 4012.617
cpu MHz
cache size
               : 2048 KB
physical id
               : 1
siblings: 2
core id
               : 0
               : 2
cpu cores
apicid
               : 2
initial apicid
               : 2
fpu
               : yes
fpu exception : yes
cpuid level
               : 13
wp
               : yes
flags
               : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp
Im constant_tsc art rep_good nopl tsc_reliable nonstop_tsc aperfmperf pni pclmu
[7m--More--(0%) [27m
lqdq ssse3 fma cx16 sse4_1 sse4_2 x2apic popcnt aes xsave avx f16c hypervisor la
[7m--More--(0%) [27m
hf_lm cmp_legacy extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw xop
[7m--More--(0%) [27m
fma4 tbm bmi1 arat
 [7m--More--(0%) [27m
 [Kbogomips : 8026.61
 [7m--More--(0%) [27m
 [KTLB size
              : 1536 4K pages
 [7m--More--(0%) [27m
clflush size
              : 64
 [7m--More--(0%) [27m
cache_alignment
                      : 64
 [7m--More--(0%) [27m
address sizes : 42 bits physical, 48 bits virtual
 [7m--More--(0%) [27m
power management:
 [7m--More--(0%) [27m
 [K
 [7m--More--(0%) [27m
 [Kprocessor: 3
 [7m--More--(0%) [27m
 [Kvendor id : AuthenticAMD
 [7m--More--(0%) [27m
 [Kcpu family : 21
 [7m--More--(0%) [27m
 [Kmodel
                      : 2
```

```
[7m--More--(0%) [27m
 [Kmodel name: AMD FX(tm)-8350 Eight-Core Processor
 [7m--More--(0%) [27m
 [Kstepping
             : 0
 [7m--More--(0%) [27m
 [Kmicrocode: 0x6000822
 [7m--More--(0%) [27m
 [Kcpu MHz
                      : 4012.617
 [7m--More--(0%) [27m
 [Kcache size : 2048 KB
 [7m--More--(0%) [27m
 [Kphysical id : 1
 [7m--More--(0%) [27m
 [Ksiblings
              : 2
 [7m--More--(0%) [27m
 [Kcore id
                      : 1
 [7m--More--(0%) [27m
 [Kcpu cores : 2
 [7m--More--(0%) [27m
 [Kapicid
                      : 3
 [7m--More--(0%) [27m
initial apicid
              : 3
 [7m--More--(0%) [27m
 [Kfpu
              : yes
 [7m--More--(0%) [27m
fpu exception : yes
 [7m--More--(0%) [27m
 [Kcpuid level: 13
 [7m--More--(0%) [27m
 [Kwp
              : yes
 [7m--More--(0%) [27m
 [Kflags
              : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
 [7m--More--(0%) [27m
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp
 [7m--More--(0%) [27m
Im constant_tsc art rep_good nopl tsc_reliable nonstop_tsc aperfmperf pni pclmu
 [7m--More--(0%) [27m
lqdq ssse3 fma cx16 sse4_1 sse4_2 x2apic popcnt aes xsave avx f16c hypervisor la
[7m--More--(0%) [27m
hf_lm cmp_legacy extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw xop
 [7m--More--(0%) [27m
fma4 tbm bmi1 arat
 [7m--More--(0%) [27m
 [Kbogomips : 8026.61
 [7m--More--(0%) [27m
 [KTLB size
              : 1536 4K pages
 [7m--More--(0%) [27m
clflush size
             : 64
```

WritebackTmp:

0 kB

```
[7m--More--(0%) [27m
cache_alignment
 [7m--More--(0%) [27m
address sizes : 42 bits physical, 48 bits virtual
 [7m--More--(0%) [27m
power management:
 [7m--More--(0%) [27m
 ſΚ
 1777; notify; Command completed; more
/proc/cpuinfo ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
 1777; notify; Command completed; more
/proc/cpuinfo ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
]777;notify;Command completed;more
/proc/cpuinfo ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# more
/proc/cpuinfo
                   [1Pinfo
                                 [1Pinfo
                                              [1Pinfo
                                                          minfo
                                                                    einfo
                                                                             minfo
MemTotal:
              4477664 kB
MemFree:
              696456 kB
MemAvailable: 3065928 kB
Buffers:
             4180 kB
Cached:
            2510604 kB
SwapCached:
                  0 kB
Active:
           1480152 kB
           1828716 kB
Inactive:
Active(anon): 795004 kB
Inactive(anon): 17768 kB
Active(file): 685148 kB
Inactive(file): 1810948 kB
Unevictable:
                 0 kB
Mlocked:
                0 kB
             4194300 kB
SwapTotal:
SwapFree:
             4194300 kB
             60 kB
Dirty:
Writeback:
                0 kB
AnonPages:
              794100 kB
Mapped:
             142576 kB
Shmem:
              18688 kB
Slab:
           279744 kB
SReclaimable: 161836 kB
SUnreclaim:
              117908 kB
KernelStack:
               9056 kB
PageTables:
               30228 kB
NFS_Unstable:
                  0 kB
[7m--More--(0%) [27m
Bounce:
               0 kB
 [7m--More--(0%) [27m
```

```
[7m--More--(0%) [27m
CommitLimit: 6433132 kB
 [7m--More--(0%) [27m
Committed_AS: 3541000 kB
 [7m--More--(0%) [27m
VmallocTotal: 34359738367 kB
 [7m--More--(0%) [27m
VmallocUsed:
               194984 kB
 [7m--More--(0%) [27m
VmallocChunk: 34359310332 kB
 [7m--More--(0%) [27m
HardwareCorrupted: 0 kB
 [7m--More--(0%) [27m
AnonHugePages: 317440 kB
 [7m--More--(0%) [27m
HugePages_Total:
 [7m--More--(0%) [27m
HugePages Free:
 [7m--More--(0%) [27m
HugePages_Rsvd:
 [7m--More--(0%) [27m
HugePages Surp:
 [7m--More--(0%) [27m
Hugepagesize:
                2048 kB
 [7m--More--(0%) [27m
DirectMap4k:
               110400 kB
 [7m--More--(0%) [27m
DirectMap2M: 2609152 kB
 [7m--More--(0%) [27m
DirectMap1G: 2097152 kB
]777;notify;Command completed;more
/proc/meminfo ]0;root@localhost:~
                                   ]7;file://localhost.localdomain/root [root@localhost~]#
 1777; notify; Command completed; more
/proc/meminfo ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
 1777;notify;Command completed;more
/proc/meminfo ]0;root@localhost:~
                                    ]7;file://localhost.localdomain/root [root@localhost~]#
1777;notify;Command completed;more
/proc/meminfo ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# more
/proc/meminfo
                               [C [C [1P/proc/meminfo
                                                                        [1P/proc/meminfo
            [1P/proc/meminfo
                                             [1P/proc/meminfo
                                                                               [1P/proc/memi
nfo
                            [C [C [C [C [1P/meminfo
                                                                   [1P/meminfo
                                                                                          [1P
/meminfo
                    [1P/meminfo
                                        s/meminfo
                                                           b/meminfo
                                                                              i/meminfo
                        [C [C [C [C [1Pnfo
    n/meminfo
                                                   [1Pnfo
                                                               [1Pnfo
                                                                         [C [C [K [K [
K [Klspci
00:00.0 Host bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX Host bridge (rev 01)
00:01.0 PCI bridge: Intel Corporation 440BX/ZX/DX - 82443BX/ZX/DX AGP bridge (rev 01)
00:07.0 ISA bridge: Intel Corporation 82371AB/EB/MB PIIX4 ISA (rev 08)
00:07.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
```

```
00:07.3 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:07.7 System peripheral: VMware Virtual Machine Communication Interface (rev 10)
00:0f.0 VGA compatible controller: VMware SVGA II Adapter
00:10.0 SCSI storage controller: LSI Logic / Symbios Logic 53c1030 PCI-X Fusion-MPT Dual Ultra320 SCSI
(rev 01)
00:11.0 PCI bridge: VMware PCI bridge (rev 02)
00:15.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.1 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.2 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.3 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.4 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.5 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.6 PCI bridge: VMware PCI Express Root Port (rev 01)
00:15.7 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.1 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.2 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.3 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.4 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.5 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.6 PCI bridge: VMware PCI Express Root Port (rev 01)
00:16.7 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.1 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.2 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.3 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.4 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.5 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.6 PCI bridge: VMware PCI Express Root Port (rev 01)
00:17.7 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.0 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.1 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.2 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.3 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.4 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.5 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.6 PCI bridge: VMware PCI Express Root Port (rev 01)
00:18.7 PCI bridge: VMware PCI Express Root Port (rev 01)
02:00.0 USB controller: VMware USB1.1 UHCI Controller
02:01.0 Ethernet controller: Intel Corporation 82545EM Gigabit Ethernet Controller (Copper) (rev 01)
02:02.0 Multimedia audio controller: Ensoniq ES1371/ES1373 / Creative Labs CT2518 (rev 02)
02:03.0 USB controller: VMware USB2 EHCI Controller
1777;notify;Command
completed;/sbin/lspci ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost~]#
/sbin/lspci [K [K [K [Khdparm -i /dev/sda
```

/dev/sda:

```
00 00 00 00 00 00 00 00 00 00
HDIO GET IDENTITY failed: Invalid argument
]777;notify;Command completed;/sbin/hdparm -i
/dev/sda ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
/sbin/hdparm -i /dev/sda
                        [1Pda hda
/dev/hda: No such file or directory
]777;notify;Command completed;/sbin/hdparm -i
/dev/hda ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost~]#
/sbin/hdparm -i
Settings for eth0:
Cannot get device settings: No such device
Cannot get wake-on-lan settings: No such device
Cannot get message level: No such device
Cannot get link status: No such device
No data available
]777;notify;Command completed;/sbin/ethtool
eth0 ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# /sbin/ethtool
                               [1P eth0
                                             [1P eth0
                                                           [1P eth0
eth0
           [C [C [1P eth0
eth0
          [1P eth0
                                    i eth0
                                              p eth0
                        [1P eth0
                                                        c eth0
                                                                  o eth0
                                                                            n
        feth0
eth0
                  i eth0
                            g eth0
bash: /sbin/ipconfig: No such file or directory
]777;notify;Command completed;/sbin/ipconfig
eth0 ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost~]#/sbin/ipconfig
more /proc/interrupts
     CPU0
            CPU1
                    CPU2
                           CPU3
 0:
      127
             0
                   0
                        0 IO-APIC-edge
                                        timer
 1:
      11
             0
                 1725
                          0 IO-APIC-edge
                                         i8042
       2
                       0 IO-APIC-edge
 6:
            0
                  0
                                       floppy
 8:
       1
            0
                  0
                       0 IO-APIC-edge
                                       rtc0
 9:
                       0 IO-APIC-fasteoi acpi
       0
            0
                  0
 12:
      94207
               0
                     0
                          0 IO-APIC-edge
                                          i8042
 14:
       0
             0
                  0
                        0 IO-APIC-edge
                                       ata piix
 15:
       528
              0
                  3239
                           0 IO-APIC-edge
                                           ata piix
 16:
       6
                  0
                       2834 IO-APIC-fasteoi vmwgfx, sn
d ens1371
17:
      69280
               0
                     0
                          0 IO-APIC-fasteoi ehci hcd:u
sb1, ioc0
18:
       186
              0
                   50
                          0 IO-APIC-fasteoi uhci_hcd:u
sb2
 19:
       7
                          0 IO-APIC-fasteoi ens33
             0
                 25635
24:
             0
                  0
                        0 PCI-MSI-edge
       0
                                        PCIe PME,
pciehp
25:
             0
                  0
                        0 PCI-MSI-edge
                                        PCIe PME,
       0
pciehp
```

0

0 PCI-MSI-edge

PCIe PME,

26:

0

0

pciehp						
27:	0	0	0	0	PCI-MSI-edge	PCIe PME,
pciehp						
28:	0	0	0	0	PCI-MSI-edge	PCIe PME,
pciehp						
29:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
30:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
31:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
32:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
33:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
34:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
35:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
36:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
37:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
38:	0	0	0	0	PCI-MSI-edge	PCIe PME,
[7mN	1ore	(0%)	[27m			
pciehp	[K					
[7mN	1ore	(0%)	[27m			
39:		0	0	0	PCI-MSI-edge	PCIe PME,
[7mN		(0%)	[27m			
pciehp	[K					

[7mMore(0%) 40: 0 0 [7mMore(0%)	0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 41: 0 0 [7mMore(0%)	0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 42: 0 0 [7mMore(0%)	0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 43: 0 0 [7mMore(0%)	0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 44: 0 0 [7mMore(0%)	0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 45: 0 0 [7mMore(0%)	[27m 0	0	PCI-MSI-edge	PCIe PME,
pciehp [K [7mMore(0%) 46: 0 0	[27m 0	0	PCI-MSI-edge	PCIe PME,
[7mMore(0%) pciehp [K [7mMore(0%) 47: 0 0		0	PCI-MSI-edge	PCIe PME,
[7mMore(0%) pciehp [K [7mMore(0%) 48: 0 0		0	PCI-MSI-edge	DCIo DME
[7mMore(0%) pciehp [K [7mMore(0%)	[27m			
49: 0 0 [7mMore(0%) pciehp [K [7mMore(0%)		0	PCI-MSI-edge	PCIe PME,
50: 0 0 [7mMore(0%) pciehp [K [7mMore(0%)		0	PCI-MSI-edge	PCIe PME,
51: 0 0 [7mMore(0%) pciehp [K	0	0	PCI-MSI-edge	PCIe PME,

```
[7m--More--(0%) [27m
 52:
        0
              0
                          0 PCI-MSI-edge
                                           PCIe PME,
                    0
 [7m--More--(0%) [27m
pciehp [K
 [7m--More--(0%) [27m
53:
        0
              0
                          0 PCI-MSI-edge
                                            PCIe PME,
 [7m--More--(0%) [27m
pciehp [K
 [7m--More--(0%) [27m
                          0 PCI-MSI-edge
        0
              0
                                            PCIe PME,
 [7m--More--(0%) [27m
pciehp [K
 [7m--More--(0%) [27m
 55:
        0
              0
                          0 PCI-MSI-edge
                                           PCIe PME,
 [7m--More--(0%) [27m
pciehp [K
 [7m--More--(0%) [27m
       239
               0
                    487
                            0 PCI-MSI-edge
                                              vmw vmci
 [7m--More--(0%) [27m
57:
        0
              0
                    0
                          0 PCI-MSI-edge
                                           vmw_vmci
 [7m--More--(0%) [27m
NMI:
         23
               24
                      21
                             20 Non-maskable interrupts
 [7m--More--(0%) [27m
                        570032 519136 Local timer interrupts
LOC: 540969 536494
 [7m--More--(0%) [27m
SPU:
         0
                           0 Spurious interrupts
               0
 [7m--More--(0%) [27m
                            20 Performance monitoring inter
PMI:
        23
               24
                      21
 [7m--More--(0%) [27m
rupts [K
 [7m--More--(0%) [27m
IWI:
       8395
               7933
                              8125 IRQ work interrupts
                       9488
 [7m--More--(0%) [27m
RTR:
         0
                           0 APIC ICR read retries
               0
[7m--More--(0%) [27m
RES: 329197 343534
                        312066 319963 Rescheduling interrupts
 [7m--More--(0%) [27m
CAL:
       1516
               1595
                      16137
                               15913 Function call interrupts
[7m--More--(0%) [27m
TLB:
       26881
               35379
                        26645
                                32861 TLB shootdowns
 [7m--More--(0%) [27m
TRM:
         0
               0
                           0 Thermal event interrupts
[7m--More--(0%) [27m
THR:
                           O Threshold APIC interrupts
         0
               0
 [7m--More--(0%) [27m
                           0 Deferred Error APIC interrup
DFR:
         0
               0
 [7m--More--(0%) [27m
ts [K
```

```
[7m--More--(0%) [27m
MCE:
          0
                             0 Machine check exceptions
                0
 [7m--More--(0%) [27m
MCP:
          13
                 13
                        13
                               13 Machine check polls
 [7m--More--(0%) [27m
ERR:
 [7m--More--(0%) [27m
MIS:
 [7m--More--(0%) [27m
PIN:
         0
                            O Posted-interrupt notificatio
               0
 [7m--More--(0%) [27m
n event [K
 [7m--More--(0%) [27m
PIW:
          0
                             0 Posted-interrupt wakeup even
                0
 [7m--More--(0%) [27m
t [K
]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
 1777;notify;Command completed;more
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
/proc/interrupts |0;root@localhost:~
 ]777;notify;Command completed;more
/proc/interrupts |0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
]777;notify;Command completed;more
/proc/interrupts |0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 1777;notify;Command completed;more
/proc/interrupts |0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts |0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                      ]7;file://localhost.localdomain/root [root@localhost~]#
 ]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
```

```
]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~
                                     ]7;file://localhost.localdomain/root [root@localhost~]#
]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]#
]777;notify;Command completed;more
/proc/interrupts ]0;root@localhost:~ ]7;file://localhost.localdomain/root [root@localhost ~]# exit
exit
```

Script done on Wed 17 Jan 2018 08:15:12 PM CST

### 2.3.1

```
#include<stdio.h>
#include<math.h>
int main()
int i,n,Sum=0,numbers;
float Average;
float Square;
float Squareavg;
 printf("\nPlease Enter How many Number you want?\n");
scanf("%d",&n);
 printf("\nPlease Enter the numbers:\n");
for(i=0;i<n;++i)
  scanf("%d",&numbers);
  Square = Square +sqrt(numbers);
  Sum = Sum +numbers;
 }
Average = Sum/n;
Squareavg = Square/n;
 printf("\nSum of the %d Numbers = %d",n, Sum);
 printf("\nAverage of the %d Numbers = %.2f",n, Average);
 printf("\nThe Average of the %d Square Roots = %.2f",n, Squareavg);
return 0;
```

## 2.3.2

I compiled my code within Emacs.

# 2.3.3

Completed successfully

## 2.3.4

Script started on Fri 19 Jan 2018 06:07:30 PM CST

]777;notify;Command completed;gdb

simple ]0;root@localhost:~/Desktop/project1 ]7;file://localhost.localdomain/root/Desktop/project1 [?1034h [root@localhost project1]# gcc -g -lm -o simpl;e [K [Ke simple.c

]777;notify;Command completed;gcc -g -lm -o simple

simple.c ]0;root@localhost:~/Desktop/project1 ]7;file://localhost.localdomain/root/Desktop/project1 [root@localhost project1]# gdb simple

[?1034hGNU gdb (GDB) Red Hat Enterprise Linux 7.6.1-100.el7

Copyright (C) 2013 Free Software Foundation, Inc.

License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>

This is free software: you are free to change and redistribute it.

There is NO WARRANTY, to the extent permitted by law. Type "show copying"

and "show warranty" for details.

This GDB was configured as "x86\_64-redhat-linux-gnu".

For bug reporting instructions, please see:

<a href="http://www.gnu.org/software/gdb/bugs/>...">http://www.gnu.org/software/gdb/bugs/>...</a>

Reading symbols from /root/Desktop/project1/simple...done.

warning: File "/root/Desktop/project1/.gdbinit" auto-loading has been declined by your `auto-load safe-path' set to "\$debugdir:\$datadir/auto-load:/usr/bin/mono-gdb.py".

To enable execution of this file add

add-auto-load-safe-path /root/Desktop/project1/.gdbinit

line to your configuration file "/root/.gdbinit".

To completely disable this security protection add

set auto-load safe-path /

line to your configuration file "/root/.gdbinit".

For more information about this security protection see the

"Auto-loading safe path" section in the GDB manual. E.g., run from the shell:

info "(gdb)Auto-loading safe path"

(gdb) run

Starting program: /root/Desktop/project1/simple

Please Enter How many Number you want?
5
Please Enter the numbers:
3
4
5
6
3
Sum of the 5 Numbers = 21
Average of the 5 Numbers = 4.00
The Average of the 5 Square Roots = 2.03[Inferior 1 (process 89991) exited normally]
Missing separate debuginfos, use: debuginfo-install glibc-2.17-196.el7_4.2.x86_64
(gdb) b 30
Breakpoint 1 at 0x400800: file simple.c, line 30.
(gdb) r
Starting program: /root/Desktop/project1/simple
Please Enter How many Number you want?
2
Please Enter the numbers:
3
4

```
Sum of the 2 Numbers = 7
Average of the 2 Numbers = 3.00
Breakpoint 1, main () at simple.c:30
        }
30
(gdb) n
0x00007ffff7737c05 in __libc_start_main () from /lib64/libc.so.6
(gdb) s
Single stepping until exit from function __libc_start_main,
which has no line number information.
The Average of the 2 Square Roots = 1.87[Inferior 1 (process 90003) exited normally]
(gdb) c
The program is not being run.
(gdb) step
The program is not being run.
(gdb) r
Starting program: /root/Desktop/project1/simple
Please Enter How many Number you want?
step
Please Enter the numbers:
Sum of the 4195840 Numbers = 0
Average of the 4195840 Numbers = 0.00
```

```
Breakpoint 1, main () at simple.c:30
30
        }
(gdb) nm [K
0x00007ffff7737c05 in __libc_start_main () from /lib64/libc.so.6
(gdb) b 5
Breakpoint 2 at 0x4006f5: file simple.c, line 5.
(gdb) step
Single stepping until exit from function __libc_start_main,
which has no line number information.
The Average of the 4195840 Square Roots = 0.00[Inferior 1 (process 90018) exited normally]
(gdb) next
The program is not being run.
(gdb) run
Starting program: /root/Desktop/project1/simple
Breakpoint 2, main () at simple.c:6
6
         int i,n,Sum=0,numbers;
(gdb) next
11
         printf("\nPlease Enter How many Number you want?\n");
(gdb) n
Please Enter How many Number you want?
12
         scanf("%d",&n);
(gdb) n
n 3
```

```
14
         printf("\nPlease Enter the numbers:\n");
(gdb) 2
Undefined command: "2". Try "help".
(gdb) n
Please Enter the numbers:
15
         for(i=0;i<n;++i)
(gdb) n [Kn [K3
Undefined command: "3". Try "help".
(gdb) n
17
           scanf("%d",&numbers);
(gdb) n
3
18
           Square = Square +sqrt(numbers);
(gdb) c
Continuing.
С
Sum of the 3 Numbers = 9
Average of the 3 Numbers = 3.00
Breakpoint 1, main () at simple.c:30
30
        }
(gdb) exit
```

Quit

(gdb) q

A debugging session is active.

Inferior 1 [process 90027] will be killed.

Quit anyway? (y or n) y

]777;notify;Command completed;gdb simple ]0;root@localhost:~/Desktop/project1 ]7;file://localhost.localdomain/root/Desktop/project1 [root@localhost.project1]# exit

exit

Script done on Fri 19 Jan 2018 06:15:27 PM CST

## Conclusion

I think that this assignment was a great way to kick off the class. I have always been interested in operating systems and I cannot wait to see what else this class has in store. I have listed a few things I ran into during this project. I am mentioning them in case they are something I need to watch out for next time.

```
[ 4.313871] Section-unaligned hotplug range: start 0x100000000, size 0x660000
00
[ 4.314141] acpi PNP0C80:03: add_memory failed
[ 4.314156] acpi PNP0C80:03: acpi_memory_enable_device() error
—
```

During my boot I received this error. I did a memory check and everything seemed fine.

During my hdparm check I received this error. Could this be something that happens if you are using a VMWare?