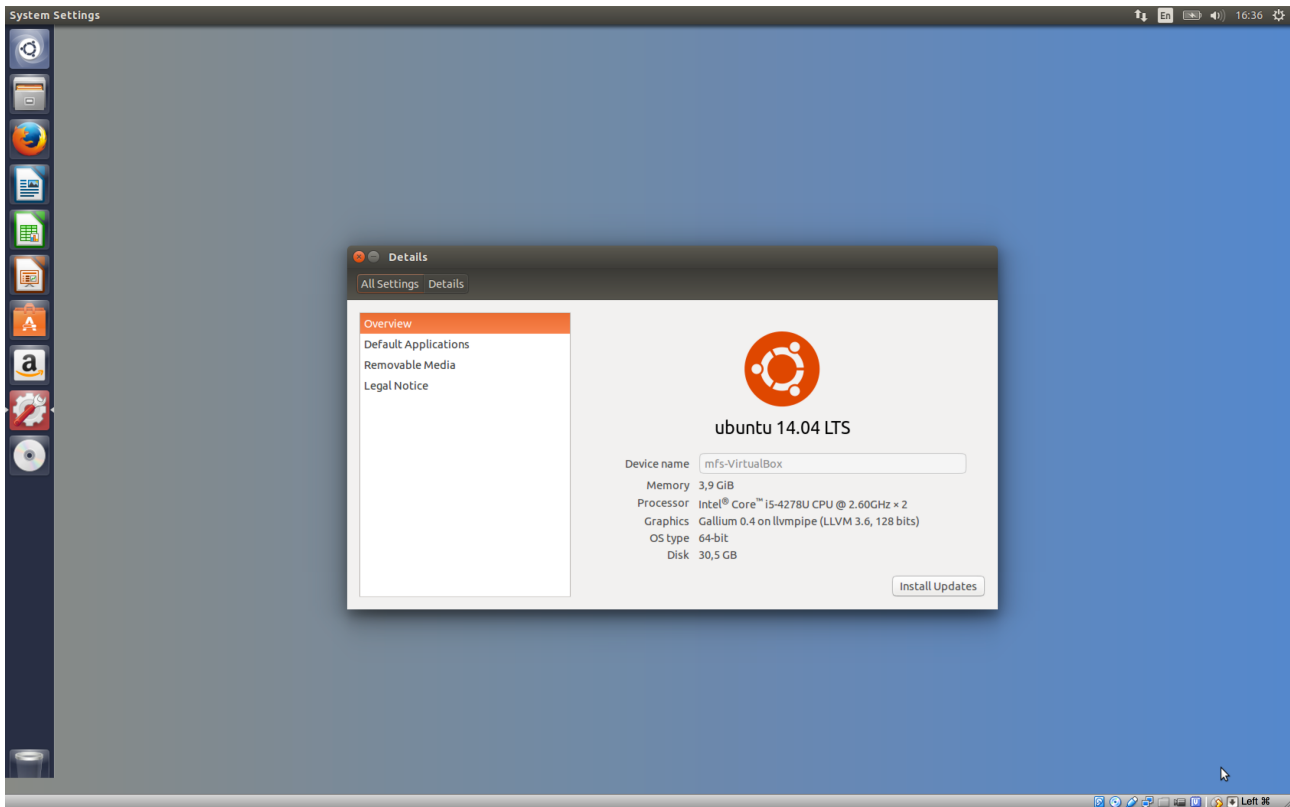


Mehmet Furkan Sahin
21201385
CS-342 - Section 2
Ibrahim Korpeoglu

HW1

1- I installed Ubuntu 14.04 on virtual box.



2- Kernel executable is located in the file “kernel” under the directory `usr/src/linux-headers-3.19.0-47-generic`. And the version number can be deduced from the file name. Still, I run the code `uname -r` and the output was `3.19.0-47-generic`

The closest kernel version was 3.18.26 in kernel.org. Thus, I downloaded it. Sub directories are as following;

- arch
- block
- crypto
- Documentation
- drivers
- firmware
- fs
- include
- init
- ipc
- kernel
- lib
- mm
- net

- samples
- scripts
- security
- sound
- tools
- usr
- virt

As it can also be seen from the following screen shot

```
mfs@mfs-VirtualBox:~/Downloads/linux-3.18.26$ ls
arch      Documentation  init          lib           README      sound
block     drivers       ipc           MAINTAINERS  REPORTING-BUGS  tools
COPYING   firmware      Kbuild       Makefile     samples     usr
CREDITS   fs            Kconfig      mm           scripts     virt
crypto    include       kernel       net          security
```

3- The C program diff.c is written and provided with a makefile and sample input files.

4-

```
mfs@mfs-VirtualBox:~/Desktop$ strace -c ./diff A.in B.in out
% time      seconds  usecs/call   calls   errors syscall
-----
 0.00      0.000000         0         5         read
 0.00      0.000000         0         1         write
 0.00      0.000000         0         5         open
 0.00      0.000000         0         5         close
 0.00      0.000000         0         5         fstat
 0.00      0.000000         0        10         mmap
 0.00      0.000000         0         4         mprotect
 0.00      0.000000         0         4         munmap
 0.00      0.000000         0         3         brk
 0.00      0.000000         0         3         3 access
 0.00      0.000000         0         1         execve
 0.00      0.000000         0         1         arch_prctl
-----
100.00     0.000000                47         3 total
```