

Homework #2 Xv6

Course

CSE 460 Operating Systems

Instructor

Dr. Yan Zhang

Meeting Time

Mon. & Wed., 4:00 p.m. - 5:15 p.m.

Due Date

March 6, 2020

Authors

Kevin T. Vo

Esdras Lopez

Joseph Gonzales

Trevor Shortlidge

Brian Ayala

Group Members' Information

Name	Coyote ID	Responsibility
Kevin T. Vo	006316930	<ul style="list-style-type: none">• Implemented date system call & command (Part a) into xv6• Contributed to this report/documentation
Esdras Lopez		<ul style="list-style-type: none">•• Contributed to this report/documentation
Joseph Gonzales		<ul style="list-style-type: none">•• Contributed to this report/documentation
Trevor Shortlidge		<ul style="list-style-type: none">•• Contributed to this report/documentation
Brian Ayala		<ul style="list-style-type: none">•• Contributed to this report/documentation

Table of Contents

Demonstration of the date() System Call	4
Demonstration of the Ctrl-P Special Control Sequence	
Demonstration of UIDs, GIDs, and PPIDs	
Demonstration of the “ps” Command	
Demonstration of the File System Protection Features	

Demonstration of the date() System Call

The system call “date” has been implemented to the Xv6 operating system where it would display the current day, month, year, hour, minute, and second in the format below:

DAY/MONTH/YEAR HOUR:MINUTE:SECOND

During the addition of this system call the following files have been created/modified:

Filename	Created / Modified	Line Numbers	Image
syscall.h	Modified		
user.h	Modified		
sysproc.c	Modified		
usys.S	Modified		
syscall.c	Modified		
date.c	Created		

Execution of date() System Call:

```
SeaBIOS (version 1.12.0-2.fc30)

iPXE (http://ipxe.org) 00:03.0 C980 PCI2.10 PnP PMM+1FF91280+1FED1280 C980

Booting from Hard Disk...
xv6...
cpu0: starting 1
cpu1: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$
$
$ date
29/2/2020 0:5:14
$
```

