



Linux System and its Applications: Assignment-6

(2022-2)

Course / Class:	Linux System and its Applications Class 02
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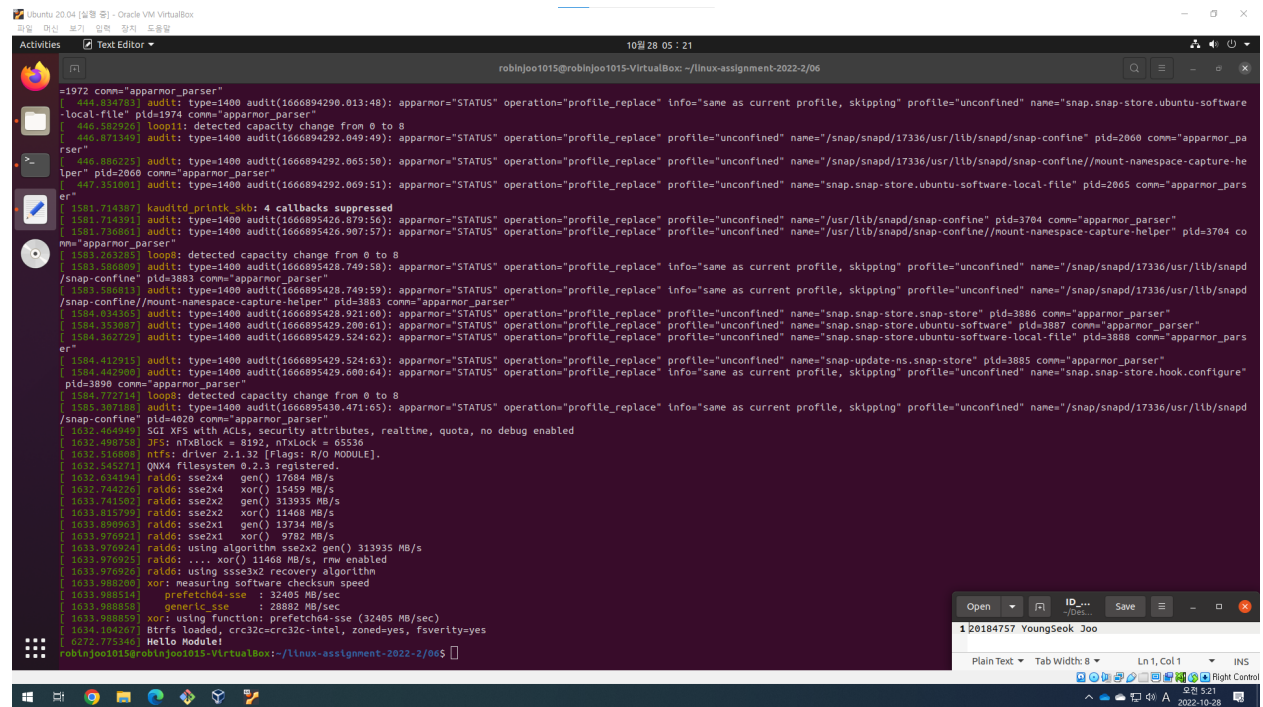
Professor:	Yongseok Son
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Submission Date:	2022. 11. 11
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Student ID:	20184757
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Name:	주영석
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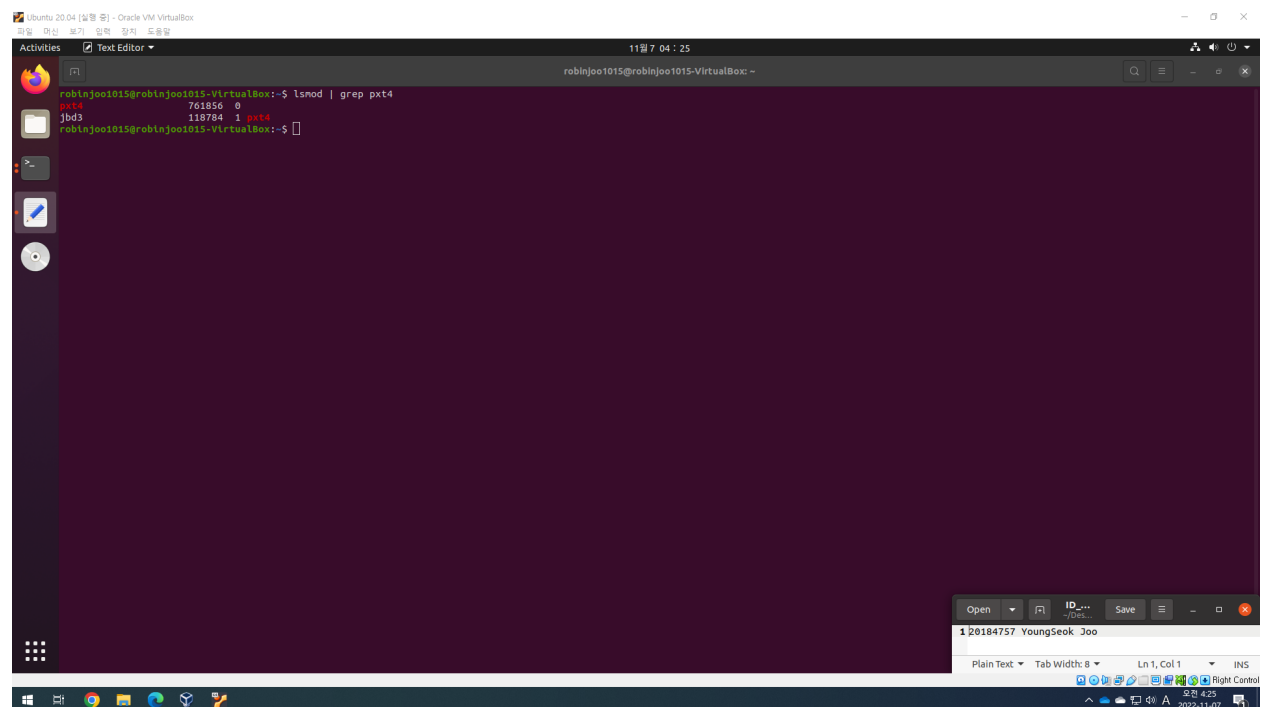
1. Screenshot of simple kernel module



The screenshot shows a terminal window with the following content:

```
~1972 comm="apparmor_parser"
[ 444.934763] audit: type=1400 audit(1666894290.013:48): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="/snap.snap-store.ubuntu-software-local-file" pid=1974 comm="apparmor_parser"
[ 446.582926] loop11: detected capacity change from 0 to 8
[ 446.871349] audit: type=1400 audit(1666894292.049:49): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap/snapd/17336/usr/lib/snapd/snap-confine" pid=2060 comm="apparmor_parser"
[ 446.886225] audit: type=1400 audit(1666894292.065:50): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap/snapd/17336/usr/lib/snapd/snap-confine/mount-namespace-capture-helper" pid=2060 comm="apparmor_parser"
[ 447.332661] audit: type=1400 audit(1666894292.069:51): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap.snap-store.ubuntu-software-local-file" pid=2065 comm="apparmor_parser"
[ 1581.714387] kauditd_printk_skb: 4 callbacks suppressed
[ 1581.714391] audit: type=1400 audit(1666895426.879:56): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/usr/lib/snapd/snap-confine" pid=3704 comm="apparmor_parser"
[ 1581.716861] audit: type=1400 audit(1666895426.907:57): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/usr/lib/snapd/snap-confine/mount-namespace-capture-helper" pid=3704 comm="apparmor_parser"
[ 1583.263285] loop8: detected capacity change from 0 to 8
[ 1583.504409] audit: type=1400 audit(1666895428.749:58): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="/snap/snapd/17336/usr/lib/snapd/snap-confine" pid=3883 comm="apparmor_parser"
[ 1583.506813] audit: type=1400 audit(1666895428.749:59): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="/snap/snapd/17336/usr/lib/snapd/snap-confine/mount-namespace-capture-helper" pid=3883 comm="apparmor_parser"
[ 1584.004405] audit: type=1400 audit(1666895429.921:60): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap.snap-store.snap-store" pid=3886 comm="apparmor_parser"
[ 1584.353897] audit: type=1400 audit(1666895429.200:61): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap.snap-store.ubuntu-software" pid=3887 comm="apparmor_parser"
[ 1584.362729] audit: type=1400 audit(1666895429.524:62): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap.snap-store.ubuntu-software-local-file" pid=3888 comm="apparmor_parser"
[ 1584.412915] audit: type=1400 audit(1666895429.524:63): apparmor="STATUS" operation="profile_replace" profile="unconfined" name="/snap-update-ns.snap-store" pid=3885 comm="apparmor_parser"
[ 1584.429960] audit: type=1400 audit(1666895429.600:64): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="/snap.snap-store.hook.configure" pid=3890 comm="apparmor_parser"
[ 1584.727147] loop9: detected capacity change from 0 to 8
[ 1585.307188] audit: type=1400 audit(1666895430.471:65): apparmor="STATUS" operation="profile_replace" info="same as current profile, skipping" profile="unconfined" name="/snap/snapd/17336/usr/lib/snapd/snap-confine" pid=4020 comm="apparmor_parser"
[ 1632.464949] SGI XFS with ACLs, security attributes, realtime, quota, no debug enabled
[ 1632.469763] JFS: nTxLock = 6192, nXLock = 65336
[ 1632.510806] ntfs: driver 2.1.32 [Flags: R/O MODULE].
[ 1632.545271] QNX4 filesystem 0.2.3 registered.
[ 1632.634194] raid6: sse2x4 gen() 17084 MB/s
[ 1632.744226] raid6: sse2x4 xor() 15459 MB/s
[ 1633.741502] raid6: sse2x2 gen() 313935 MB/s
[ 1633.815799] raid6: sse2x2 xor() 11468 MB/s
[ 1633.899963] raid6: sse2x1 gen() 13734 MB/s
[ 1633.979921] raid6: sse2x1 xor() 9702 MB/s
[ 1633.976924] raid6: using algorithm sse2x2 gen() 313935 MB/s
[ 1633.976925] raid6: .... xor() 11468 MB/s, rsw enabled
[ 1633.979964] raid6: using sse3x2 recovery algorithm
[ 1633.988286] xor: measuring software checksum speed
[ 1633.988514] prefetch64-sse : 32405 MB/sec
[ 1633.988588] generic_sse : 28882 MB/sec
[ 1633.988693] xor: using function: prefetch64-sse (32405 MB/sec)
[ 1634.104267] Btrfs loaded, crc32ccrc32c-intel, zoned=yes, fsverity=yes
[ 6272.775346] Hello Module!
robinjoo1015@robinjoo1015-VirtualBox: ~/linux-assignment-2022-2/06$
```

2. Screenshot of inserted jbd3 & pxt4 module



The screenshot shows a terminal window with the following content:

```
robinjoo1015@robinjoo1015-VirtualBox:~$ lsmod | grep pxt4
pxt4 761856 0
jbd3 118784 1 pxt4
robinjoo1015@robinjoo1015-VirtualBox:~$
```

3. Screenshot of pxt4 mounted free partition

