

LKMP – Extra kernel version task – Sergio Gonzalez Collado

The system used is:

```
sergio@laptop: ~/repos/busyboxLinux/src/linux-stable
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$ git log -2
commit e2cee8e47c18177fcc85412c7bd27e4a9c0e2024 (HEAD)
Author: Sergio González Collado <sergio.collado@gmail.com>
Date: Tue May 7 23:18:42 2024 +0200

    LKMP - Kernel extraversion task - Sergio Gonzalez Collado

    Add an extraversion to the kernel Makefile

    Signed-off-by: Sergio González Collado <sergio.collado@gmail.com>

commit e8f897f4afef0031fe618a8e94127a0934896aba (grafted, tag: v6.8)
Author: Linus Torvalds <torvalds@linux-foundation.org>
Date: Sun Mar 10 13:38:09 2024 -0700

    Linux 6.8
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$
```

And the patch, to change the kernel version is:

```
sergio@laptop: ~/repos/busyboxLinux/src/linux-stable
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$ git show
commit e2cee8e47c18177fcc85412c7bd27e4a9c0e2024 (HEAD)
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diff --git a/Makefile b/Makefile
index c7ee53f4b..4ccdad805 100644
--- a/Makefile
+++ b/Makefile
@@ -2,7 +2,7 @@
VERSION = 6
PATCHLEVEL = 8
SUBLEVEL = 0
-EXTRAVERSION =
+EXTRAVERSION = LKMP - Kernel extra version task
NAME = Hurr durr I'ma ninja sloth

# *DOCUMENTATION*
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$
```

The kernel version can be checked with the command “make kernelversion -s”:

```
sergio@laptop: ~/repos/busyboxLinux/src/linux-stable
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$ git log -2
commit e2cee8e47c18177fcc85412c7bd27e4a9c0e2024 (HEAD)
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commit e8f897f4afef0031fe618a8e94127a0934896aba (grafted, tag: v6.8)
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    Linux 6.8

sergio@laptop:~/repos/busyboxLinux/src/linux-stable$ make kernelversion -s
6.8.0LKMP - Kernel extra version task
sergio@laptop:~/repos/busyboxLinux/src/linux-stable$
```

Or loading the kernel, during the booting of the system, the kernel version is reported:

```
sergio@laptop: ~/repos/busyboxLinux
[ 0.000000] Linux version 6.8.0LKMP - Kernel extra version task-ge2cee8e47c18 (sergio@laptop) (gcc (Ubuntu 12.3.0-1ubuntu1-23.04) 12.3.0, GNU ld (GNU Binutils for Ubuntu) 2.40) #44
[ 0.000000] Command line: console=ttyS0
[ 0.000000] BIOS-provided physical RAM map:
[ 0.000000] BIOS-e820: [mem 0x0000000000000000-0x0000000000009fbfff] usable
[ 0.000000] BIOS-e820: [mem 0x0000000000009fc00-0x0000000000009ffff] reserved
[ 0.000000] BIOS-e820: [mem 0x000000000000f0000-0x000000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000000100000-0x000000000000fdffff] usable
[ 0.000000] BIOS-e820: [mem 0x000000000007fe0000-0x000000000007fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000fffc0000-0x0000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x0000000000ffffc0000-0x0000000000fffff] reserved
[ 0.000000] BIOS-e820: [mem 0x00000000fd00000000-0x00000000fffff] reserved
[ 0.000000] NX (Execute Disable) protection: active
[ 0.000000] APIC: Static calls initialized
[ 0.000000] SMBIOS 2.8 present.
[ 0.000000] DMI: QEMU Standard PC (i440FX + PIIX, 1996), BIOS 1.16.0-debian-1.16.0-5 04/01/2014
```

If the kernel version is requested with the command “uname -r”:

```
cut: expected a list of bytes, characters, or fields

Boot took  seconds

/bin/sh: can't access tty; job control turned off
/ # uname -r
6.8.0LKMP - Kernel extra version task-ge2cee8e47c18
/ #
```