

Nos situamos en la carpeta de descargas

```
root@hugogd-VirtualBox:/home/hugogd/Descargas# pwd  
/home/hugogd/Descargas  
root@hugogd-VirtualBox:/home/hugogd/Descargas# █
```

Nos descargamos el Kernel que vamos a usar en mi caso el 6.8.1

```
/home/hugogd/Descargas  
root@hugogd-VirtualBox:/home/hugogd/Descargas# ls  
KERNEL_ANTIGUO linux-6.8.1.tar.gz  
root@hugogd-VirtualBox:/home/hugogd/Descargas# █
```

Descomprimimos el archivo del kernel

```
root@hugogd-VirtualBox:/home/hugogd/Descargas# ls  
KERNEL_ANTIGUO linux-6.8.1 linux-6.8.1.tar.gz  
root@hugogd-VirtualBox:/home/hugogd/Descargas# █
```

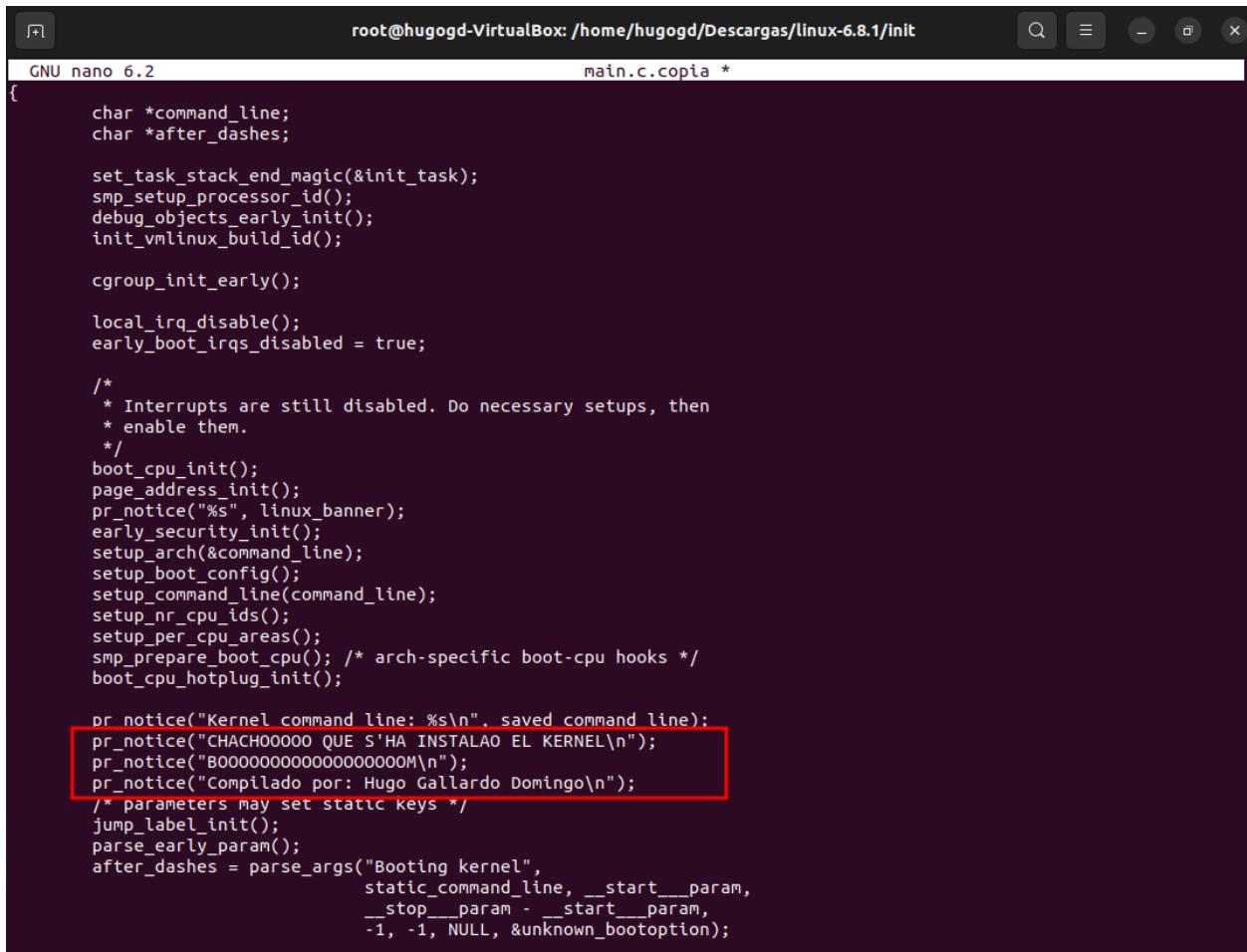
Entramos dentro de la carpeta del kernel

```
KERNEL_ANTIGUO linux-6.8.1 linux-6.8.1.tar.gz  
root@hugogd-VirtualBox:/home/hugogd/Descargas# cd linux-6.8.1  
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1#
```

Hacemos la copia de main.c

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# ls -l | grep main  
-rw-rw-r-- 1 root root 38669 mar 15 2024 main.c  
-rw-r--r-- 1 root root 38669 dic 3 15:47 main.c.copia  
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init#
```

Modificamos el kernel para saber lo que queremos que nos salga



The screenshot shows a terminal window titled "root@hugogd-VirtualBox: /home/hugogd/Descargas/linux-6.8.1/init". The file being edited is "main.c.copia". The code is a C program for the Linux kernel's initialization. A red box highlights a section of code where the kernel prints its own command line parameters:

```
pr_notice("Kernel command line: %s\n", saved_command_line);
pr_notice("CHACH00000 QUE S'HA INSTALAO EL KERNEL\n");
pr_notice("B0000000000000000000000M\n");
pr_notice("Compilado por: Hugo Gallardo Domingo\n");
```

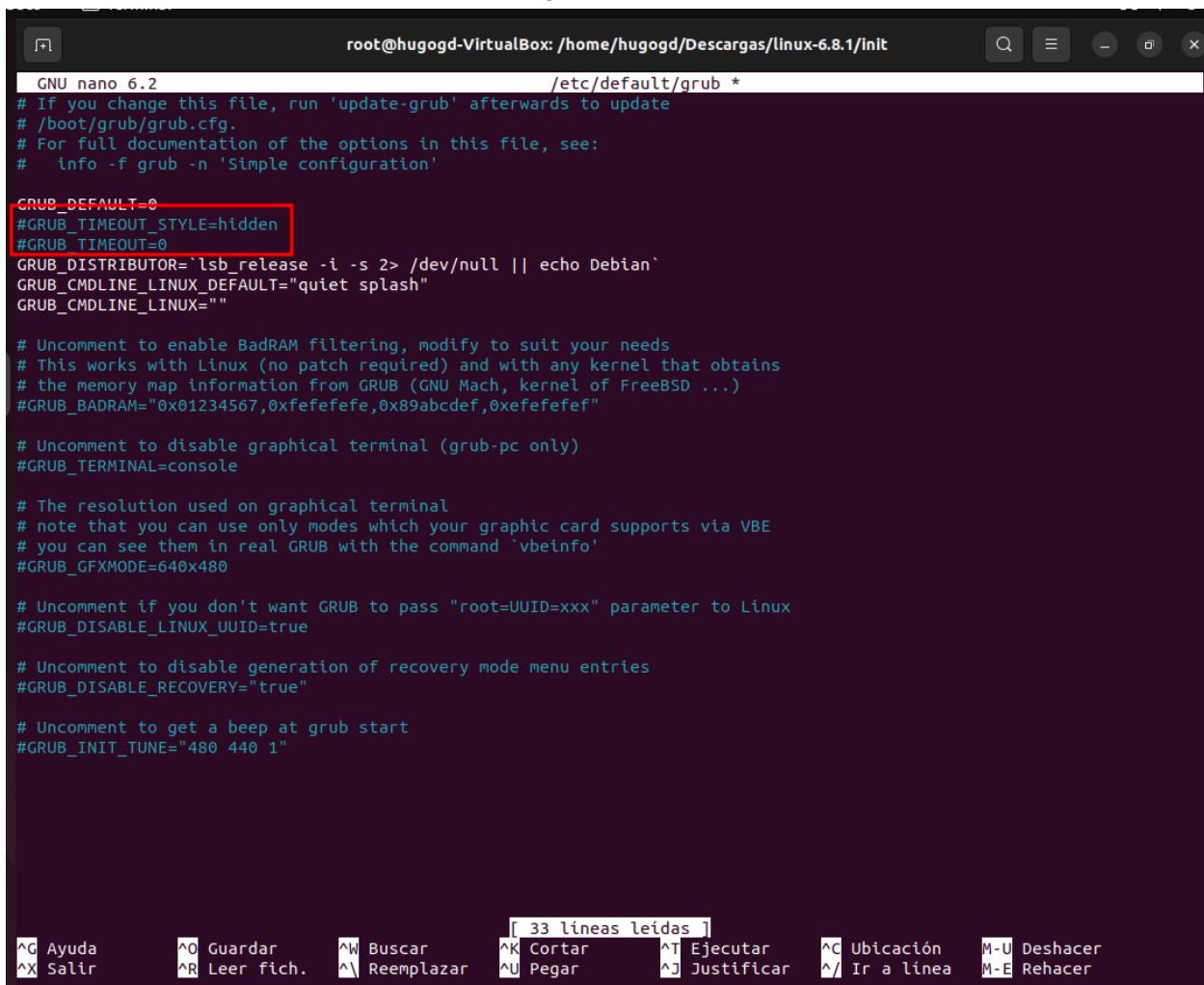
Creamos el parche

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# diff -u main.c main.c.copia > parcheHUGO.patch
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# ls
build-version do_mounts.h      initramfs.c  main.c      noinitramfs.c    version-timestamp.c
calibrate.c   do_mounts_initrd.c init_task.c  main.c.copia  parcheHUGO.patch
do_mounts.c   do_mounts_rd.c   Kconfig     Makefile    version.c
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init#
```

Aplicamos el parche y comprobamos que se ha aplicado

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# patch -p1 < parcheHUGO.patch
can't find file to patch at input line 3
Perhaps you used the wrong -p or --strip option?
The text leading up to this was:
-----
|--- main.c      2024-03-15 19:19:29.000000000 +0100
|+++ main.c.copia    2025-12-03 15:52:04.457482243 +0100
-----
File to patch: main.c
patching file main.c
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# grep -n "Hugo" main.c
908:     pr_notice("Compilado por: Hugo Gallardo Domingo\n");
```

Comentamos los TIMEOUT de /etc/default/grub



```
GNU nano 6.2          /etc/default/grub *
# If you change this file, run 'update-grub' afterwards to update
# /boot/grub/grub.cfg.
# For full documentation of the options in this file, see:
#   info -f grub -n 'Simple configuration'

GRUB_DEFAULT=0
#GRUB_TIMEOUT_STYLE=hidden
#GRUB_TIMEOUT=0
GRUB_DISTRIBUTOR=`lsb_release -i -s 2>> /dev/null || echo Debian`
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"
GRUB_CMDLINE_LINUX=""

# Uncomment to enable BadRAM filtering, modify to suit your needs
# This works with Linux (no patch required) and with any kernel that obtains
# the memory map information from GRUB (GNU Mach, kernel of FreeBSD ...)
#GRUB_BADRAM="0x01234567,0xfefefefe,0x89abcdef,0xefefefef"

# Uncomment to disable graphical terminal (grub-pc only)
#GRUB_TERMINAL=console

# The resolution used on graphical terminal
# note that you can use only modes which your graphic card supports via VBE
# you can see them in real GRUB with the command 'vbeinfo'
#GRUB_GFXMODE=640x480

# Uncomment if you don't want GRUB to pass "root=UUID=xxx" parameter to Linux
#GRUB_DISABLE_LINUX_UUID=true

# Uncomment to disable generation of recovery mode menu entries
#GRUB_DISABLE_RECOVERY="true"

# Uncomment to get a beep at grub start
#GRUB_INIT_TUNE="480 440 1"
```

Hacemos el update-grub para que se apliquen las modificaciones

```
root@hugoggd-VirtualBox:/home/hugoggd/Descargas/linux-6.8.1/init# update-grub
Sourcing file `/etc/default/grub'
Sourcing file `/etc/default/grub.d/init-select.cfg'
Generating grub configuration file ...
Found linux image: /boot/vmlinuz-6.8.0-87-generic
Found initrd image: /boot/initrd.img-6.8.0-87-generic
Found linux image: /boot/vmlinuz-5.15.0-43-generic
Found initrd image: /boot/initrd.img-5.15.0-43-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
Warning: os-prober will not be executed to detect other bootable partitions.
Systems on them will not be added to the GRUB boot configuration.
Check GRUB_DISABLE_OS_PROBER documentation entry.
done
root@hugoggd-VirtualBox:/home/hugoggd/Descargas/linux-6.8.1/init#
```

Hacemos el menuconfig y quitamos la virtualización en el archivo de configuración

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# make menuconfig
make: *** No hay ninguna regla para construir el objetivo 'menuconfig'. Alto.
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1/init# cd ..
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1# make menuconfig
HOSTCC scripts/basic/fixdep
HOSTCC scripts/kconfig/mconf.o
HOSTCC scripts/kconfig/lxdialog/checklist.o
HOSTCC scripts/kconfig/lxdialog/inputbox.o
HOSTCC scripts/kconfig/lxdialog/menubox.o
HOSTCC scripts/kconfig/lxdialog/textbox.o
HOSTCC scripts/kconfig/lxdialog/util.o
HOSTCC scripts/kconfig/lxdialog/yesno.o
HOSTCC scripts/kconfig/mnconf-common.o
HOSTCC scripts/kconfig/conffdata.o
HOSTCC scripts/kconfig/expr.o
LEX scripts/kconfig/lexer.lex.c
YACC scripts/kconfig/parser.tab.[ch]
HOSTCC scripts/kconfig/lexer.lex.o
HOSTCC scripts/kconfig/menu.o
HOSTCC scripts/kconfig/parser.tab.o
HOSTCC scripts/kconfig/preprocess.o
HOSTCC scripts/kconfig/symbol.o
HOSTCC scripts/kconfig/util.o
HOSTLD scripts/kconfig/mconf
#
# using defaults found in /boot/config-6.8.0-87-generic
#
.config:10805:warning: symbol value 'm' invalid for ANDROID_BINDER_IPC
.config:10806:warning: symbol value 'm' invalid for ANDROID_BINDERFS

*** End of the configuration.
*** Execute 'make' to start the build or try 'make help'.

root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1#
```

.config - Linux/x86 6.8.1 Kernel Configuration

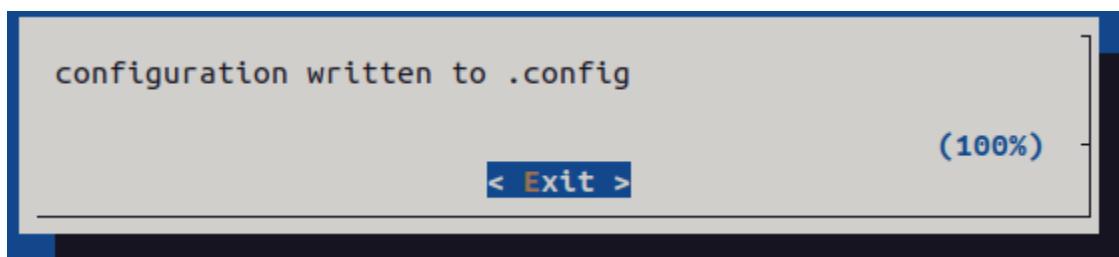
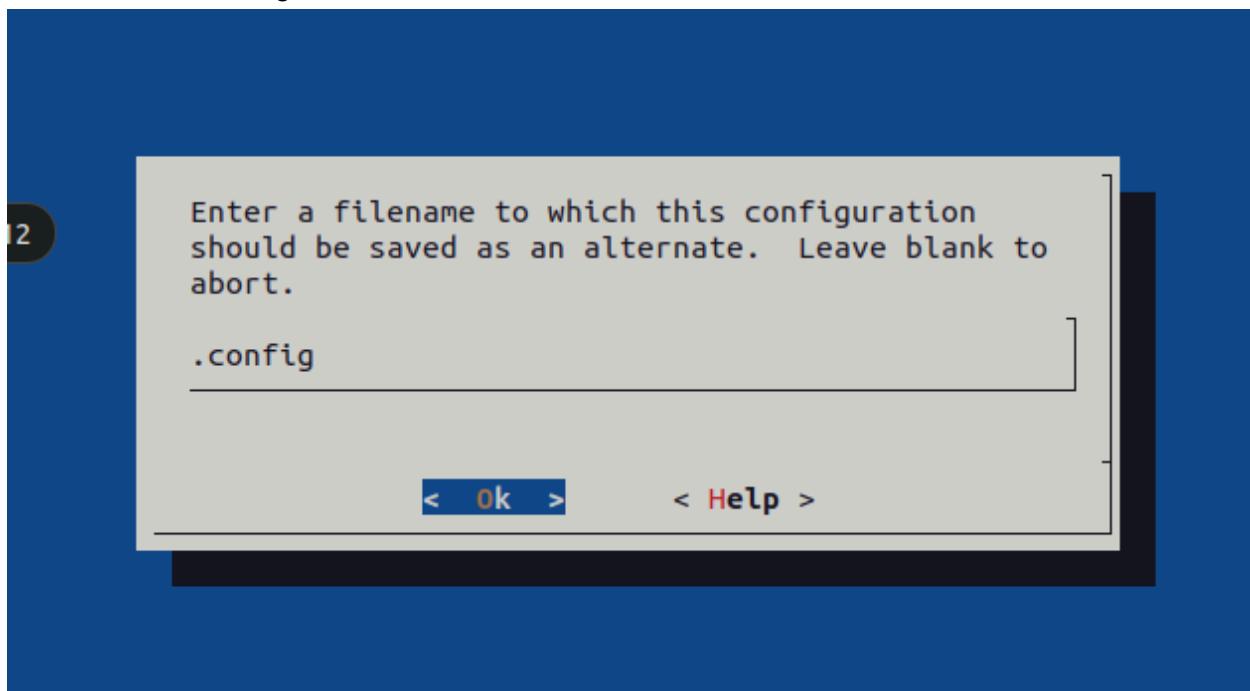
Linux/x86 6.8.1 Kernel Configuration

Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----).
Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes
features. Press <Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [*]
built-in [] excluded <M> module < > module capable

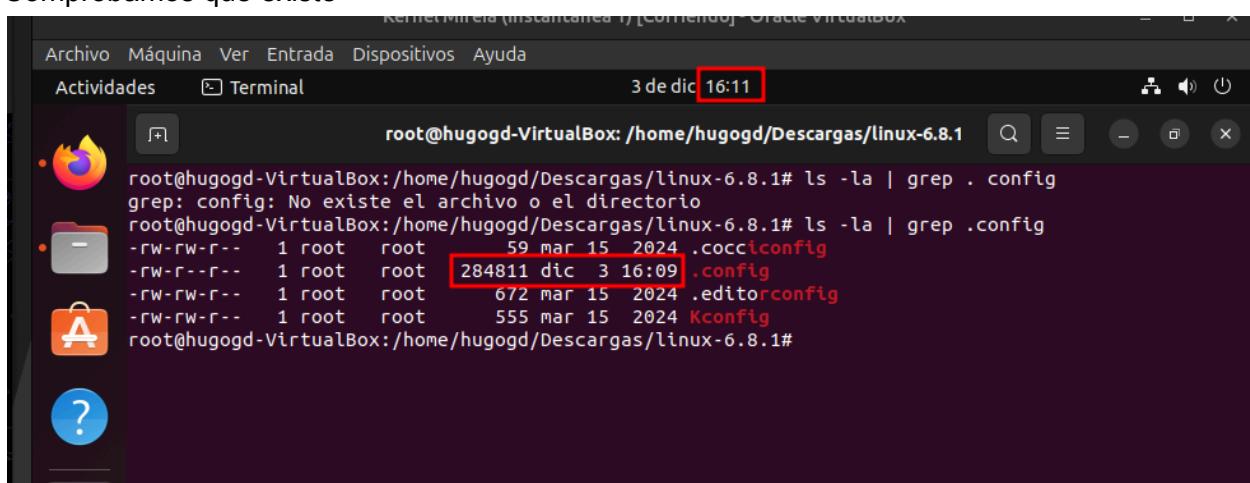
- General setup --->
- [*] 64-bit kernel
- Processor type and features --->
- [*] Mitigations for speculative execution vulnerabilities (NEW) --->
 - Power management and ACPI options --->
 - Bus options (PCI etc.) --->
 - Binary Emulations --->
- [] **Virtualization** --->
 - General architecture-dependent options --->
 - [*] Enable loadable module support --->
 - [*] Enable the block layer --->
 - Executable file formats --->
 - Memory Management options --->
 - [*] Networking support --->
 - Device Drivers --->
 - File systems --->
 - Security options --->
 - *- Cryptographic API --->
 - Library routines --->
 - Kernel hacking --->

<**Select**> < Exit > < Help > < Save > < Load >

Guardamos en .config



Comprobamos que existe



Limpiamos compilaciones anteriores

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1# make clean
```

Preparamos las dependencias

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1# make prepare
SYNC      include/config/auto.conf.cmd
HOSTCC   scripts/basic/fixdep
HOSTCC   scripts/kconfig/conf.o
HOSTCC   scripts/kconfig/confdata.o
HOSTCC   scripts/kconfig/expr.o
LEX       scripts/kconfig/lexer.lex.c
YACC     scripts/kconfig/parser.tab.[ch]
HOSTCC   scripts/kconfig/lexer.lex.o
HOSTCC   scripts/kconfig/menu.o
HOSTCC   scripts/kconfig/parser.tab.o
HOSTCC   scripts/kconfig/preprocess.o
HOSTCC   scripts/kconfig/symbol.o
HOSTCC   scripts/kconfig/util.o
HOSTLD   scripts/kconfig/conf
SYSHDR   arch/x86/include/generated/uapi/asm/unistd_32.h
SYSHDR   arch/x86/include/generated/uapi/asm/unistd_64.h
SYSHDR   arch/x86/include/generated/uapi/asm/unistd_x32.h
SYSTBL   arch/x86/include/generated/asm/syscalls_32.h
SYSHDR   arch/x86/include/generated/asm/unistd_32_ia32.h
SYSHDR   arch/x86/include/generated/asm/unistd_64_x32.h
SYSTBL   arch/x86/include/generated/asm/syscalls_64.h
HYPERCALLS arch/x86/include/generated/asm/xen-hypercalls.h
HOSTCC   arch/x86/tools/relocs_32.o
HOSTCC   arch/x86/tools/relocs_64.o
```

Iniciamos la compilacion

```
root@hugogd-VirtualBox:/home/hugogd/Descargas/linux-6.8.1# sudo make-kpkg --initrd kernel_image
kernel_headers
exec make kpkg_version=13.018+nmu2 -f /usr/share/kernel-package/ruleset/minimal.mk debian INITRD
=YES
===== making target debian/stamp/conf/minimal_debian [new prereqs: ]=====
This is kernel package version 13.018+nmu2.
test -d debian || mkdir debian
test ! -e stamp-building || rm -f stamp-building
install -p -m 755 /usr/share/kernel-package/rules debian/rules
for file in ChangeLog Control Control.bin86 config templates.in rules; do
    \
        cp -f /usr/share/kernel-package/$file ./debian/; \
done
cp: no se puede efectuar `stat' sobre '/usr/share/kernel-package/ChangeLog': No existe el archivo o el directorio
for dir in Config docs examples ruleset scripts pkg po; do
    \
        cp -af /usr/share/kernel-package/$dir ./debian/; \
done
test -f debian/control || sed -e 's/=V/6.8.1/g' \
    -e 's/=D/6.8.1-10.00.Custom/g' -e 's/=A/amd64/g' \
    -e 's/=SA//g' \
    -e 's/=I//g' \
    -e 's/=CV/6.8/g' \
    -e 's/=M/Unknown Kernel Package Maintainer <unknown@unconfigured.in.etc.kernel-pkg.conf>/g' \
    -e 's/=ST/linux/g' -e 's=/B/x86_64/g' \
    -e 's=/R/initramfs-tools | linux-initramfs-tool,/g' /usr/share/kernel-package
/control > debian/control
test -f debian/changelog || sed -e 's/=V/6.8.1/g' \
    -e 's/=D/6.8.1-10.00.Custom/g' -e 's/=A/amd64/g' \
    -e 's/=ST/linux/g' -e 's=/B/x86_64/g' \
    -e 's/=M/Unknown Kernel Package Maintainer <unknown@unconfigured.in.etc.kernel-pkg.conf>/g' \
    /usr/share/kernel-package/changelog > debian/changelog
chmod 0644 debian/control debian/changelog
test -d ./debian/stamp || mkdir debian/stamp
make -f debian/rules debian/stamp/conf/kernel-conf
make[1]: se entra en el directorio '/home/hugogd/Descargas/linux-6.8.1'
```

