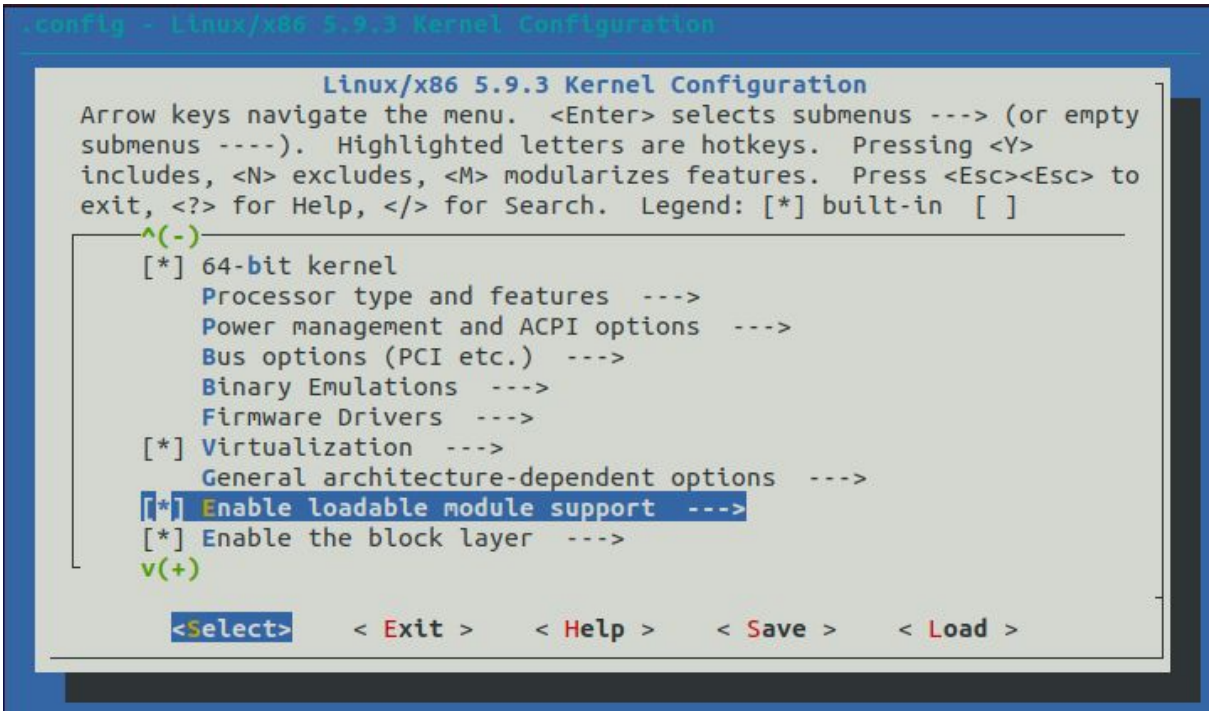
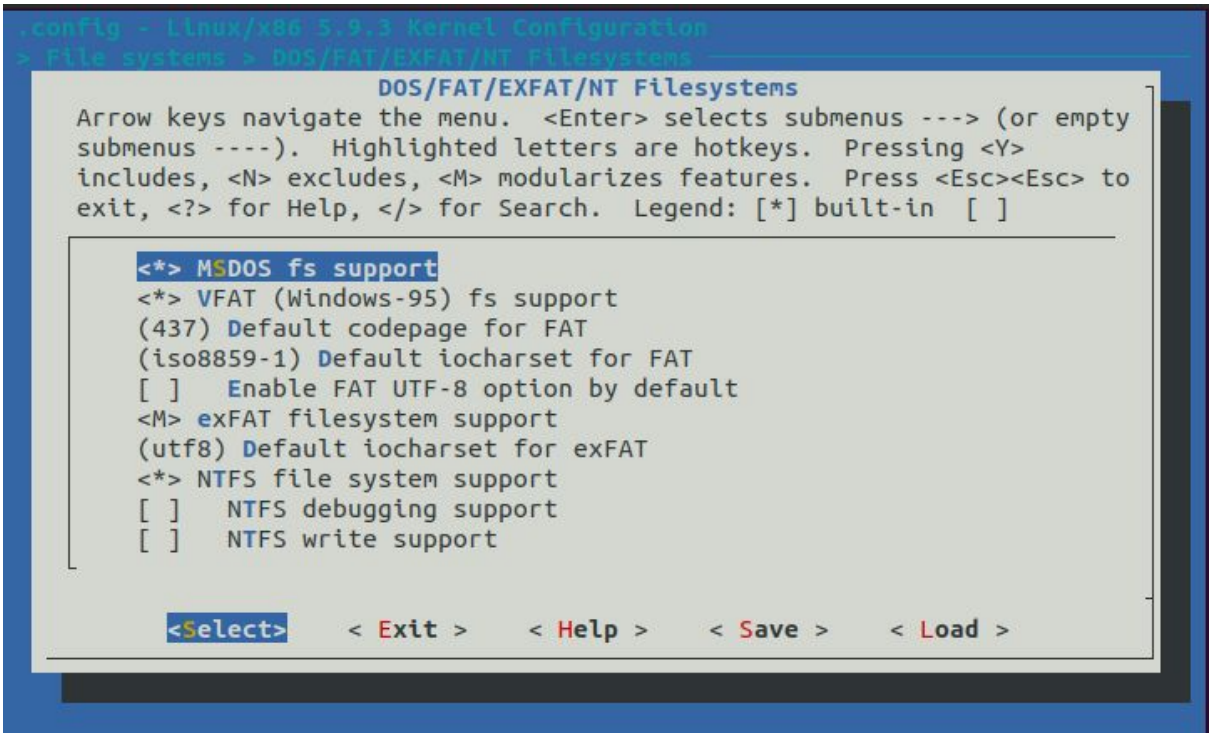
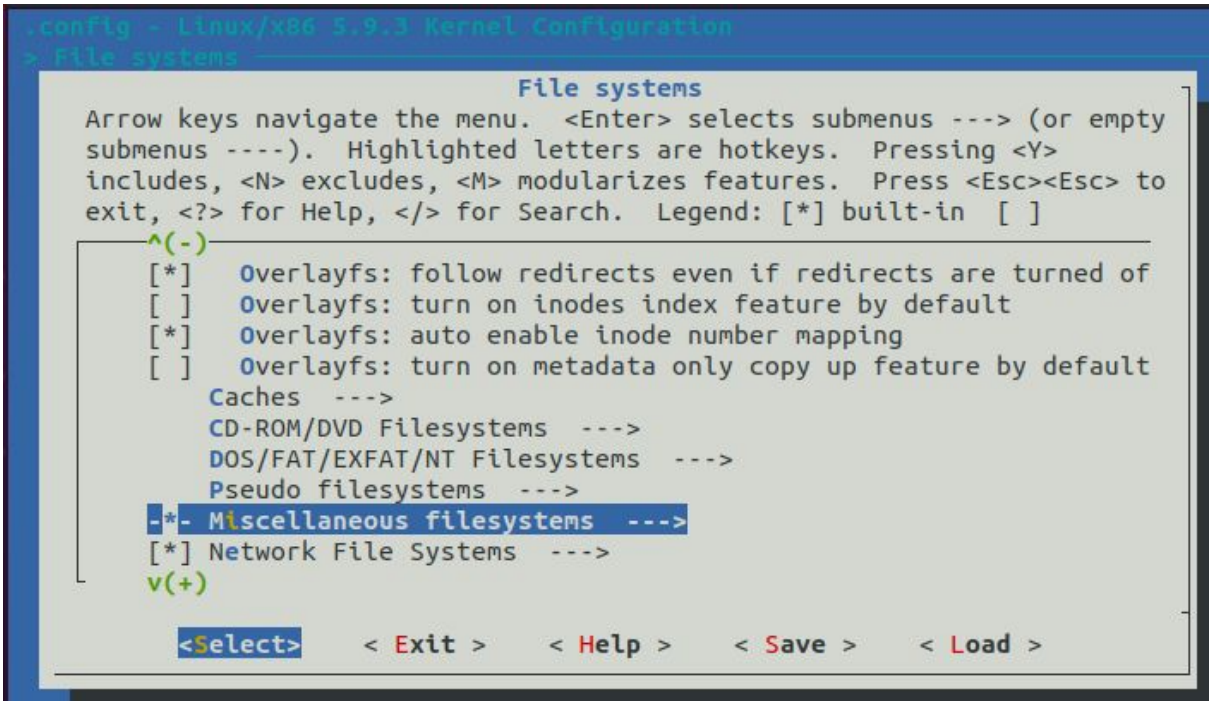
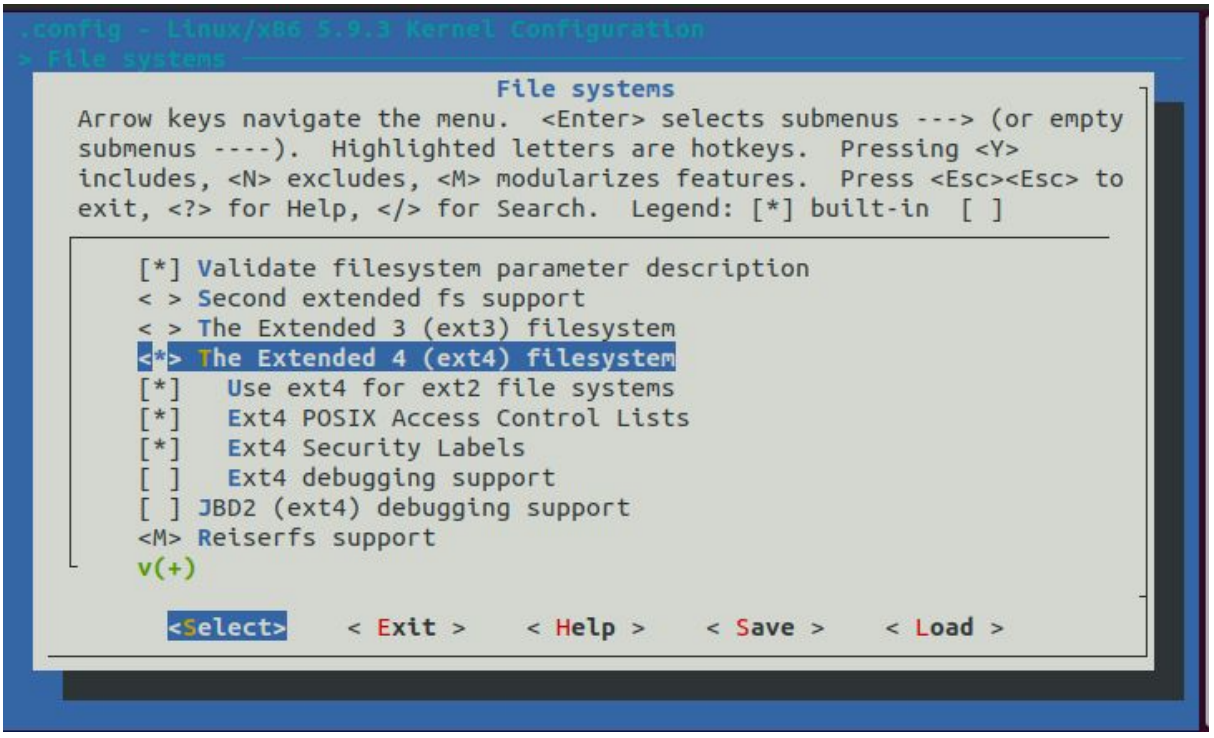
Lo primero que hay que hacer es crear una carpeta, descargar el nucleo en esa carpeta, descomprimir, instalar una cuantas aplicaciones y con el comando make menuconfig empezar a configurarlo

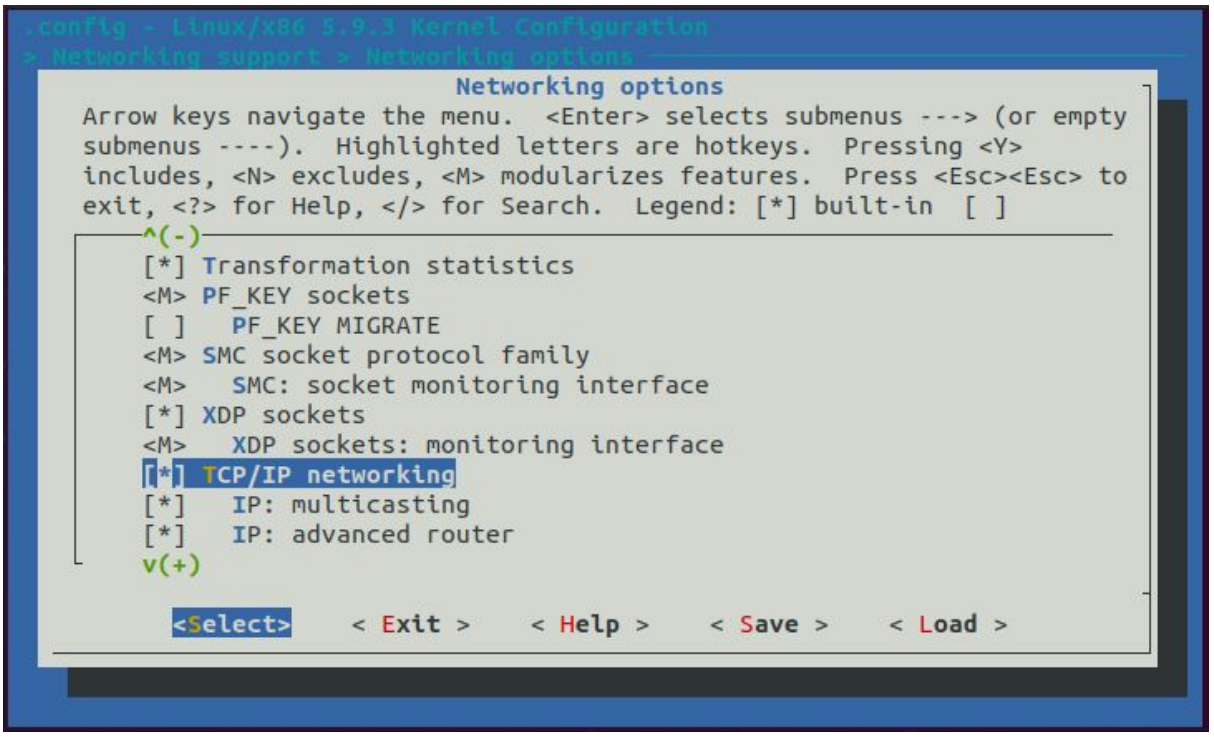


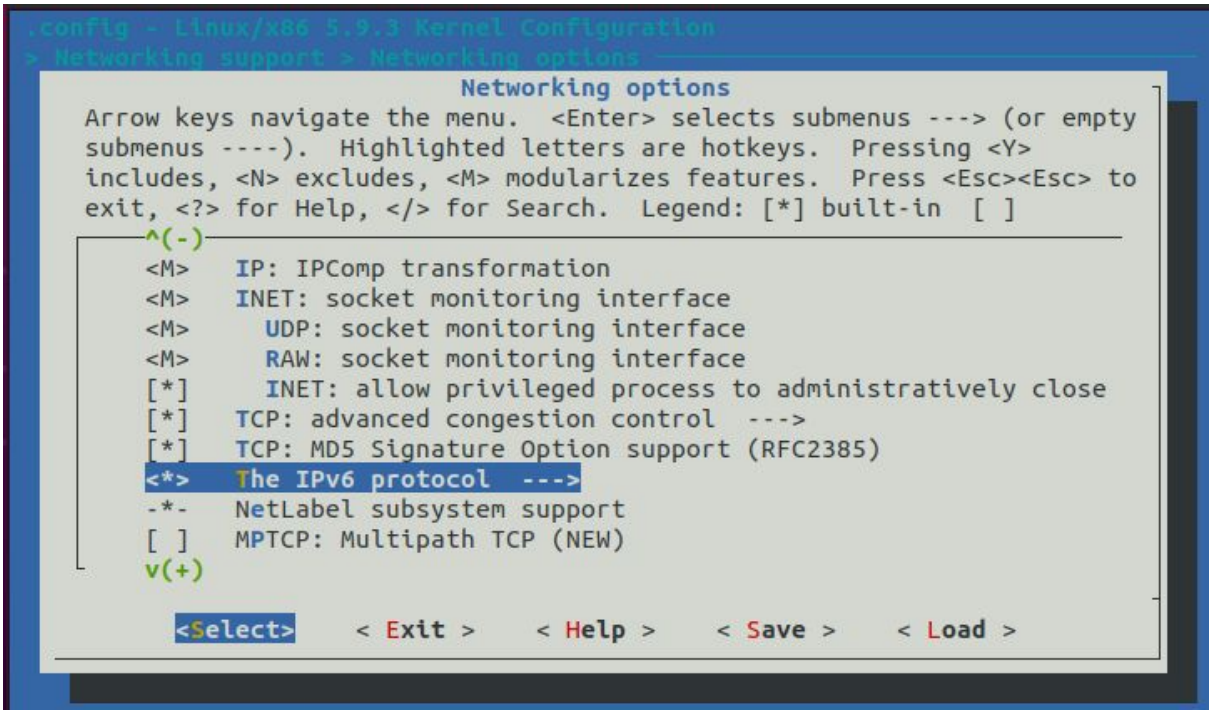


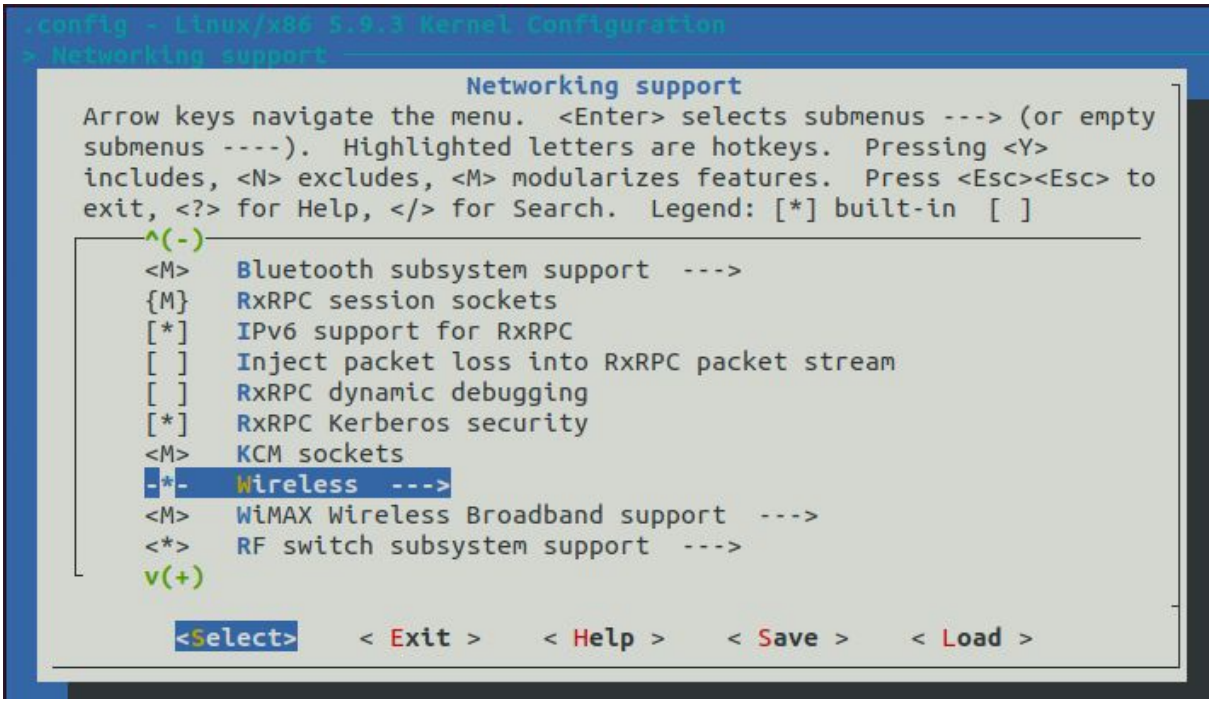
Para que sea compatible con el sistema de ficheros de minix hay que activar esta opción

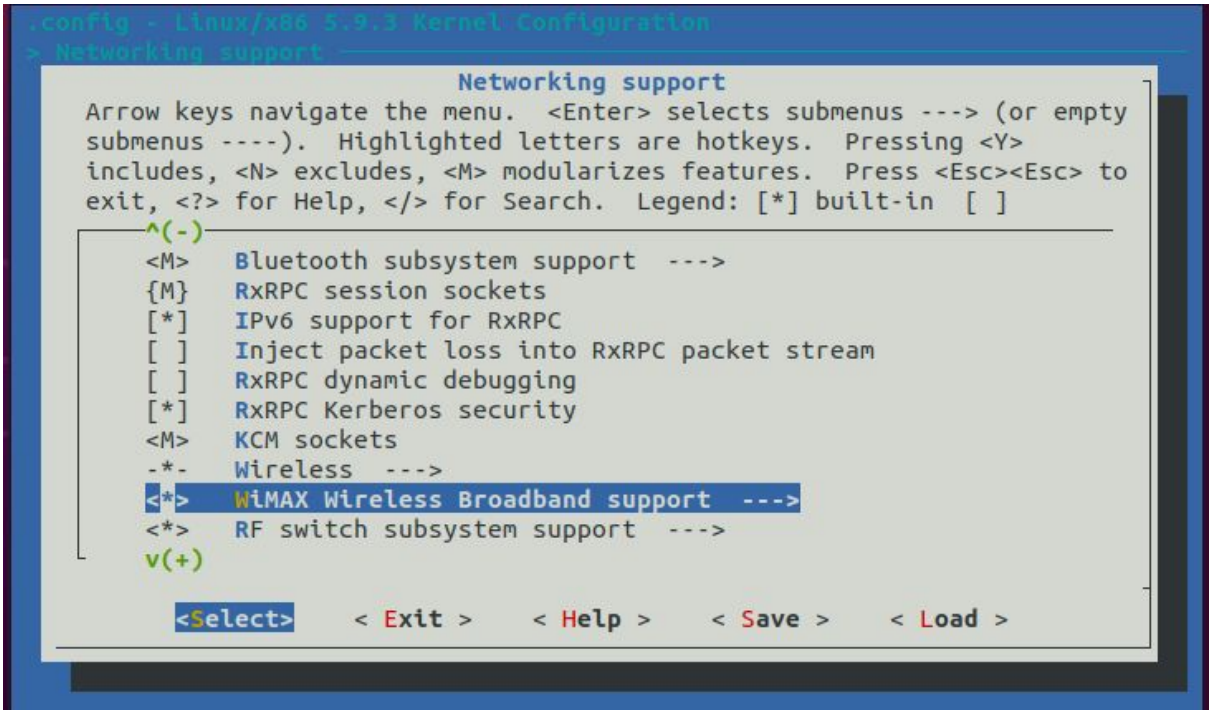


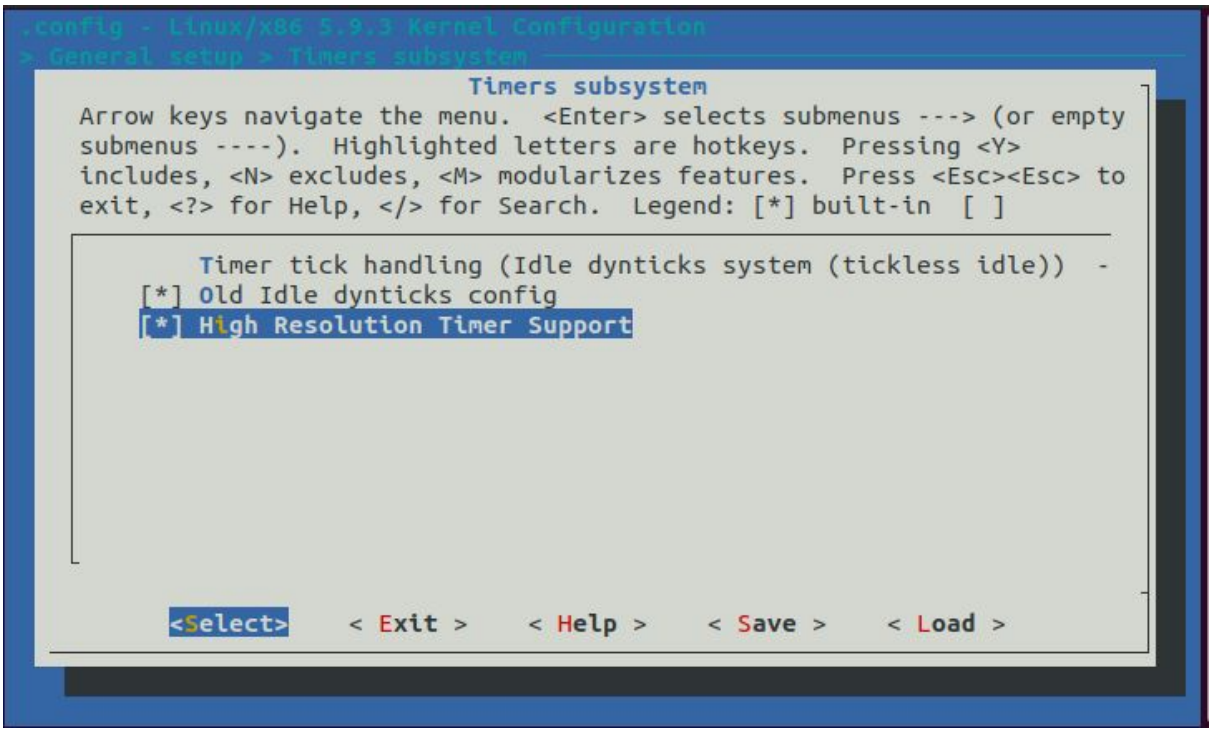


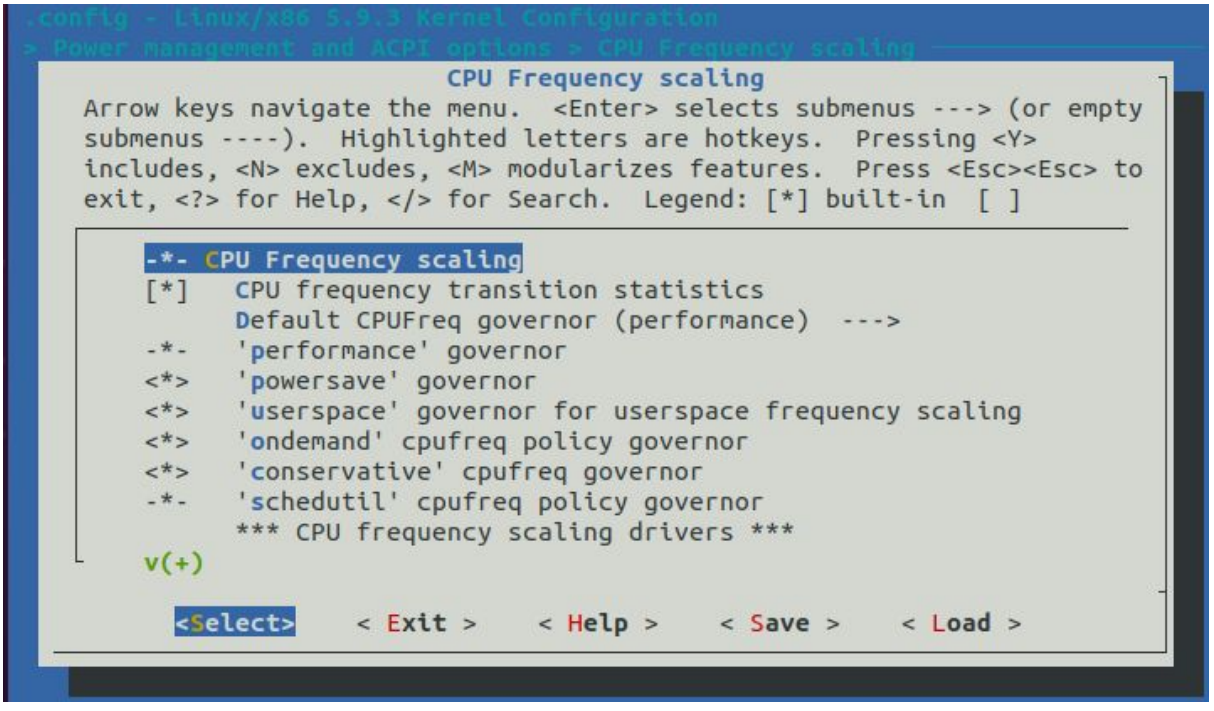

.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support > Networking options
Networking options
Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----). Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [*] built-in [ ]
^(-)
[*] Transformation statistics
<M> PF_KEY sockets
[ ] PF_KEY MIGRATE
<M> SMC socket protocol family
<M> SMC: socket monitoring interface
[*] XDP sockets
<M> XDP sockets: monitoring interface
[*] TCP/IP networking
[*] IP: multicasting
[*] IP: advanced router
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support > Networking options
Networking options
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 [ ]
^(-)
<M> IP: IPComp transformation
<M> INET: socket monitoring interface
<M> UDP: socket monitoring interface
<M> RAW: socket monitoring interface
[*] INET: allow privileged process to administratively close
[*] TCP: advanced congestion control --->
[*] TCP: MD5 Signature Option support (RFC2385)
<*> The IPv6 protocol --->
-*- NetLabel subsystem support
[ ] MPTCP: Multipath TCP (NEW)
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support
Networking support
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 [ ]
^(-)
<M> Bluetooth subsystem support --->
{M} RxRPC session sockets
[*] IPv6 support for RxRPC
[ ] Inject packet loss into RxRPC packet stream
[ ] RxRPC dynamic debugging
[*] RxRPC Kerberos security
<M> KCM sockets
-*- Wireless --->
<M> WiMAX Wireless Broadband support --->
<*> RF switch subsystem support --->
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support
Networking support
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 [ ]
^(-)
<M> Bluetooth subsystem support --->
{M} RxRPC session sockets
[*] IPv6 support for RxRPC
[ ] Inject packet loss into RxRPC packet stream
[ ] RxRPC dynamic debugging
[*] RxRPC Kerberos security
<M> KCM sockets
-*- Wireless --->
<*> WiMAX Wireless Broadband support --->
<*> RF switch subsystem support --->
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> General setup > Timers subsystem
Timers subsystem
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 [ ]
Timer tick handling (Idle dynticks system (tickless idle)) -
[*] Old Idle dynticks config
[*] High Resolution Timer Support
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Power management and ACPI options > CPU Frequency scaling
CPU Frequency scaling
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 [ ]
-*- CPU Frequency scaling
[*] CPU frequency transition statistics
Default CPUFreq governor (performance) --->
-*- 'performance' governor
<*> 'powersave' governor
<*> 'userspace' governor for userspace frequency scaling
<*> 'ondemand' cpufreq policy governor
<*> 'conservative' cpufreq governor
-*- 'schedutil' cpufreq policy governor
*** CPU frequency scaling drivers ***
v(+)
<Select> < Exit > < Help > < Save > < Load >

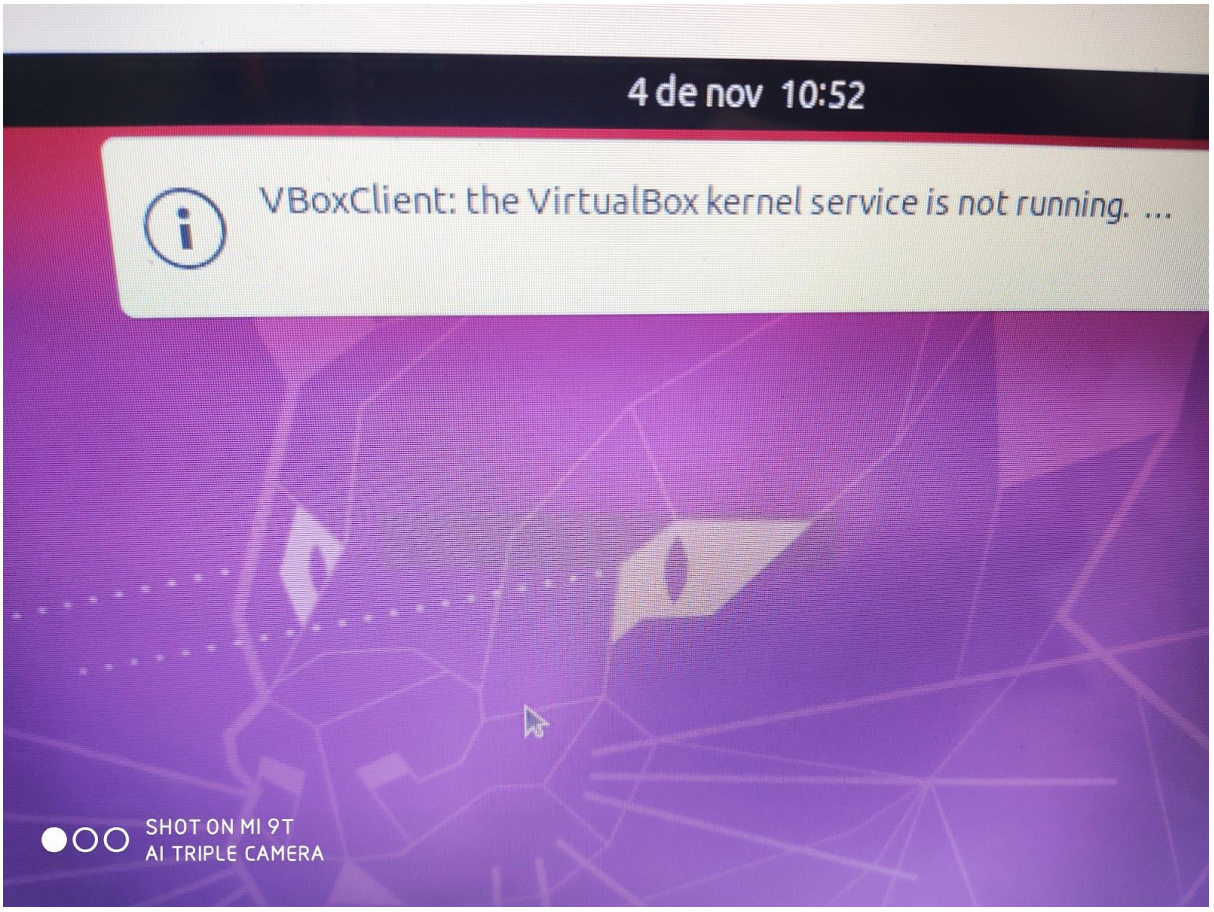
```
 HDRINST usr/include/asm/resource.h
 HDRINST usr/include/asm/types.h
 HDRINST usr/include/asm/termbits.h
 HDRINST usr/include/asm/unistd_32.h
 HDRINST usr/include/asm/ioctl.h
 HDRINST usr/include/asm/ioctls.h
 HDRINST usr/include/asm/fcntl.h
 INSTALL debian/linux-libc-dev/usr/include
dpkg-deb: construyendo el paquete `linux-libc-dev' en `../linux-libc-dev_5.9.3-1_amd64.deb'.
dpkg-deb: construyendo el paquete `linux-image-5.9.3' en `../linux-image-5.9.3_5.9.3-1_amd64.deb'.
dpkg-deb: construyendo el paquete `linux-image-5.9.3-dbg' en `../linux-image-5.9.3-dbg_5.9.3-1_amd64.deb'.

 dpkg-genbuildinfo
 dpkg-genchanges  >../linux-5.9.3_5.9.3-1_amd64.changes
dpkg-genchanges: información: incluyendo el código fuente completo en la subida
 dpkg-source -i.git --after-build .
dpkg-buildpackage: información: subida completa (se incluye la fuente original)
leo@leo-VirtualBox:~/nucleo/linux-5.9.3$   <div
```

```
leo@leo-VirtualBox:~/nucleo$ ls
linux-5.9.3                          linux-5.9.3_5.9.3-1.dsc              linux-image-5.9.3_5.9.3-1_amd64.deb
linux-5.9.3_5.9.3-1_amd64.buildinfo  linux-5.9.3_5.9.3.orig.tar.gz        linux-image-5.9.3-dbg_5.9.3-1_amd64.deb
linux-5.9.3_5.9.3-1_amd64.changes    linux-5.9.3.tar.xz                   linux-libc-dev_5.9.3-1_amd64.deb
linux-5.9.3_5.9.3-1.diff.gz          linux-headers-5.9.3_5.9.3-1_amd64.deb
```

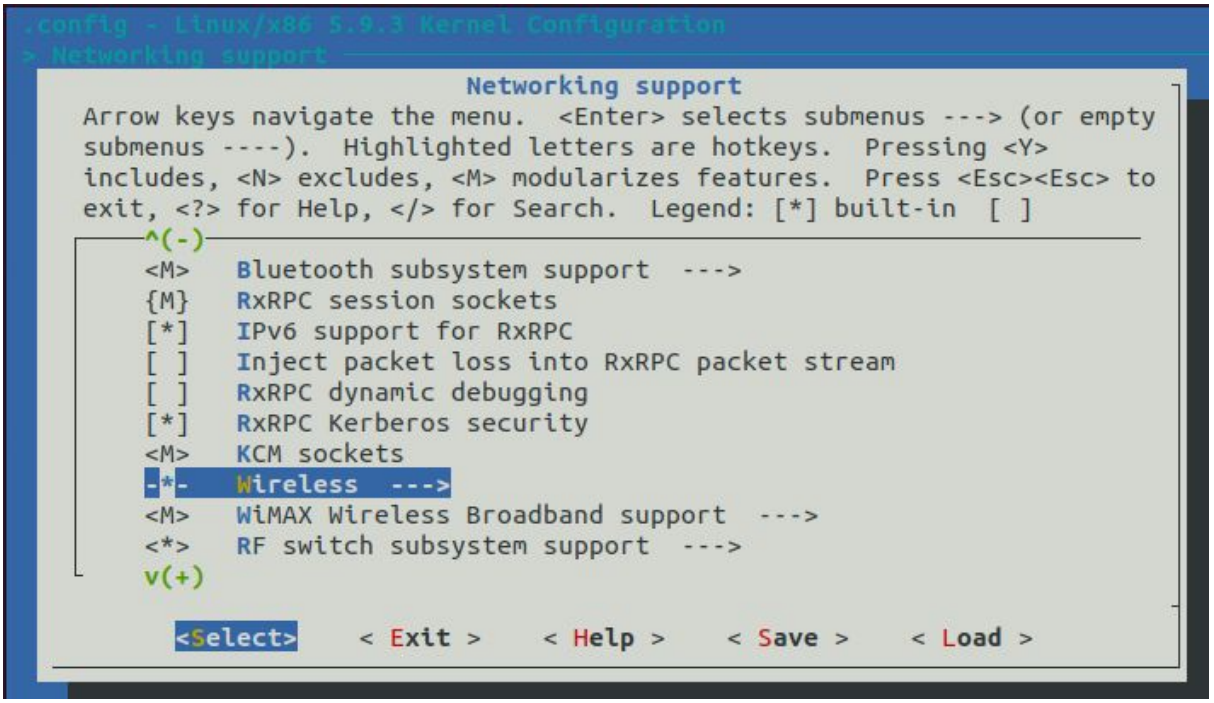
Despues de muchas horas de compilar, termino.
Y luego use los comandos dpkg -i para las .deb

```
leo@leo-VirtualBox:~/nucleo$ sudo dpkg -i linux-image-5.9.3_5.9.3-1_amd64.deb
[sudo] contraseña para leo:
Seleccionando el paquete linux-image-5.9.3 previamente no seleccionado.
(Leyendo la base de datos ... 238622 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar linux-image-5.9.3_5.9.3-1_amd64.deb ...
Desempaquetando linux-image-5.9.3 (5.9.3-1) ...
Configurando linux-image-5.9.3 (5.9.3-1) ...
update-initramfs: Generating /boot/initrd.img-5.9.3
Obteniendo el archivo «/etc/default/grub»
Obteniendo el archivo «/etc/default/grub.d/init-select.cfg»
Generando un fichero de configuración de grub...
Encontrada imagen de linux: /boot/vmlinuz-5.9.3
Encontrada imagen de memoria inicial: /boot/initrd.img-5.9.3
Encontrada imagen de linux: /boot/vmlinuz-5.4.0-52-generic
Encontrada imagen de memoria inicial: /boot/initrd.img-5.4.0-52-generic
Encontrada imagen de linux: /boot/vmlinuz-5.4.0-42-generic
Encontrada imagen de memoria inicial: /boot/initrd.img-5.4.0-42-generic
Found memtest86+ image: /boot/memtest86+.elf
Found memtest86+ image: /boot/memtest86+.bin
hecho
leo@leo-VirtualBox:~/nucleo$ dpkg -i linux-headers-5.9.3_5.9.3-1_amd64.deb
dpkg: error: la operación solicitada precisa privilegios de superusuario
leo@leo-VirtualBox:~/nucleo$ sudo dpkg -i linux-headers-5.9.3_5.9.3-1_amd64.deb
Seleccionando el paquete linux-headers-5.9.3 previamente no seleccionado.
(Leyendo la base de datos ... 245135 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar linux-headers-5.9.3_5.9.3-1_amd64.deb ...
Desempaquetando linux-headers-5.9.3 (5.9.3-1) ...
Configurando linux-headers-5.9.3 (5.9.3-1) ...
leo@leo-VirtualBox:~/nucleo$ sudo dpkg -i linux-libc-dev_5.9.3-1_amd64.deb
(Leyendo la base de datos ... 263253 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar linux-libc-dev_5.9.3-1_amd64.deb ...
```

Al reiniciar me sale este mensaje



Para hacer la 2 compilación voy a hacer todos los pasos, pero no compilare ya que para el núcleo 1 me tardo mas de 6 horas


.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support
Networking support
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 [ ]
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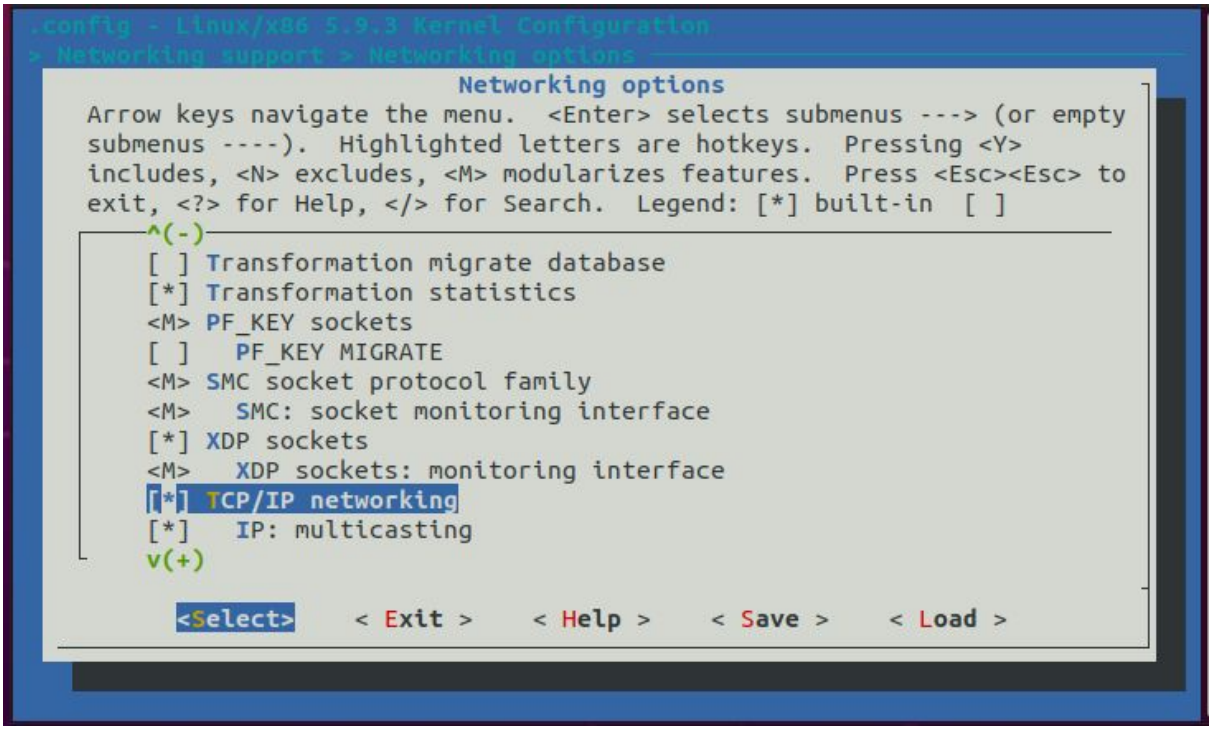
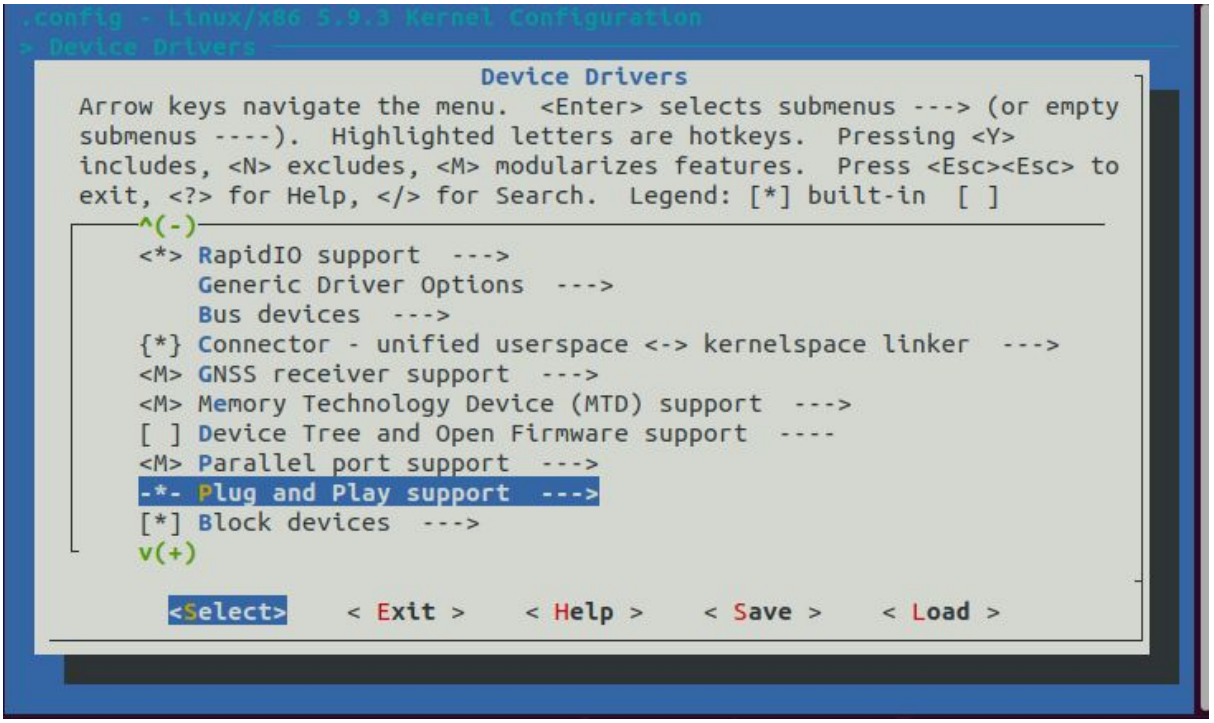
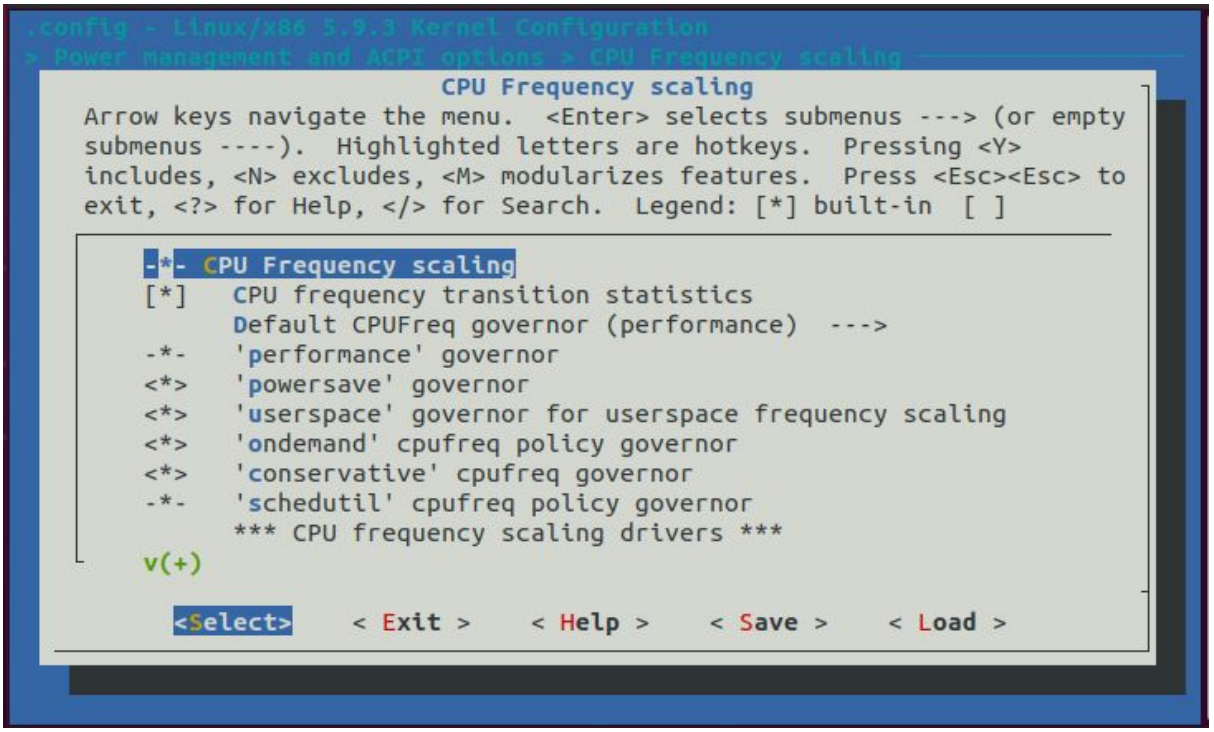
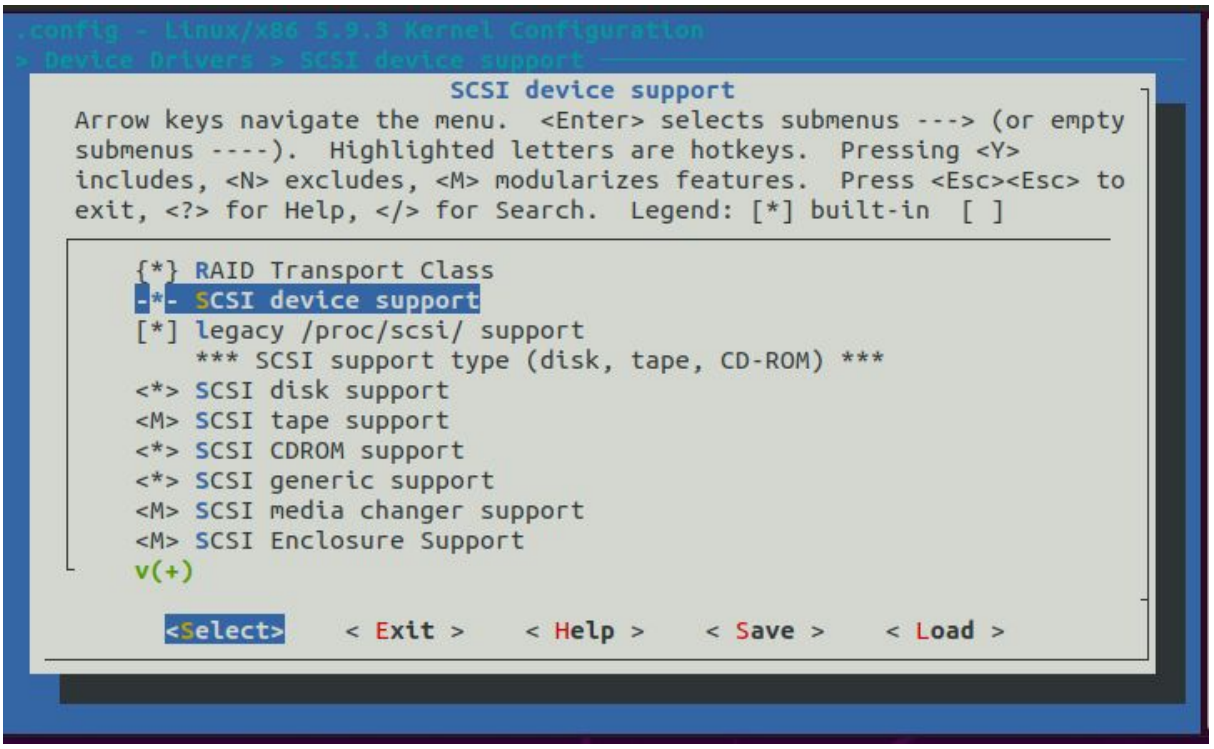
[ ] RxRPC dynamic debugging
[*] RxRPC Kerberos security
<M> KCM sockets
-*- Wireless --->
<M> WiMAX Wireless Broadband support --->
<*> RF switch subsystem support --->
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Networking support > Networking options
Networking options
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 [ ]
^(-)
[ ] Transformation migrate database
[*] Transformation statistics
<M> PF_KEY sockets
[ ] PF_KEY MIGRATE
<M> SMC socket protocol family
<M> SMC: socket monitoring interface
[*] XDP sockets
<M> XDP sockets: monitoring interface
[*] TCP/IP networking
[*] IP: multicasting
v(+)
<Select> < Exit > < Help > < Save > < Load >

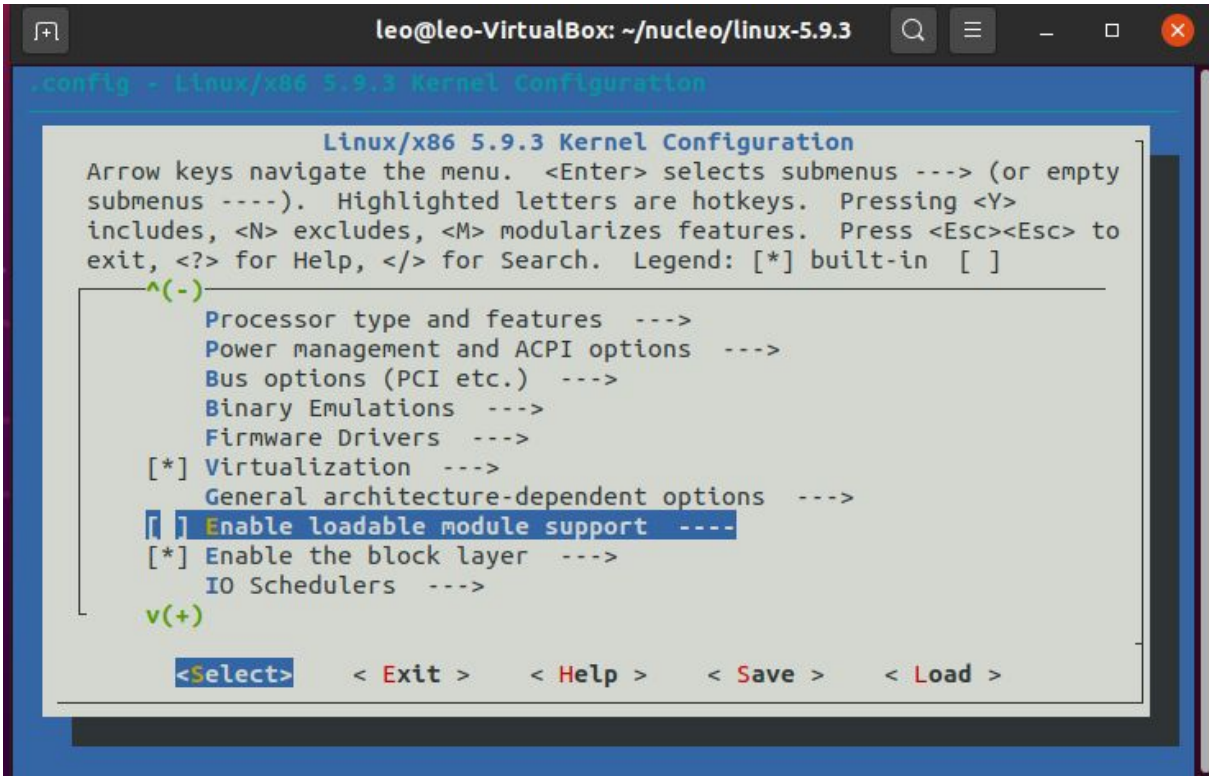

.config - Linux/x86 5.9.3 Kernel Configuration
> Device Drivers
Device Drivers
Arrow keys navigate the menu. <Enter> selects submenus ---> (or empty submenus ----). Highlighted letters are hotkeys. Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for Help, </> for Search. Legend: [*] built-in [ ]
^(-)
<*> RapidIO support --->
Generic Driver Options --->
Bus devices --->
{*} Connector - unified userspace <-> kernelspace linker --->
<M> GNSS receiver support --->
<M> Memory Technology Device (MTD) support --->
[ ] Device Tree and Open Firmware support ----
<M> Parallel port support --->
-*- Plug and Play support --->
[*] Block devices --->
v(+)
<Select> < Exit > < Help > < Save > < Load >


.config - Linux/x86 5.9.3 Kernel Configuration
> Power management and ACPI options > CPU Frequency scaling
CPU Frequency scaling
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 [ ]
-*- CPU Frequency scaling
[*] CPU frequency transition statistics
Default CPUFreq governor (performance) --->
-*- 'performance' governor
<*> 'powersave' governor
<*> 'userspace' governor for userspace frequency scaling
<*> 'ondemand' cpufreq policy governor
<*> 'conservative' cpufreq governor
-*- 'schedutil' cpufreq policy governor
*** CPU frequency scaling drivers ***
v(+)
<Select> < Exit > < Help > < Save > < Load >

Esto hay que activar para que el usb sea compatible



Hay que desactivar esta opcion para que sea un procesador monolitico



Para compilar hay que hacer los mismo pasos que antes y una vez compilado se instala con dpkg -i como lo hice antes

El parcheo no lo he hecho