

内核配置选项

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任务要求

- 常规设置
- 模块和快设备选项
- 处理器类型及特性
- 网络协议相关选项
- 设备驱动选项
- 文件系统类型选项



常规设置

```
root@pingzhenyu-virtual-machine: /opt/soft/linux-2.6.32.2
.config - Linux Kernel v2.6.32.2 Configuration

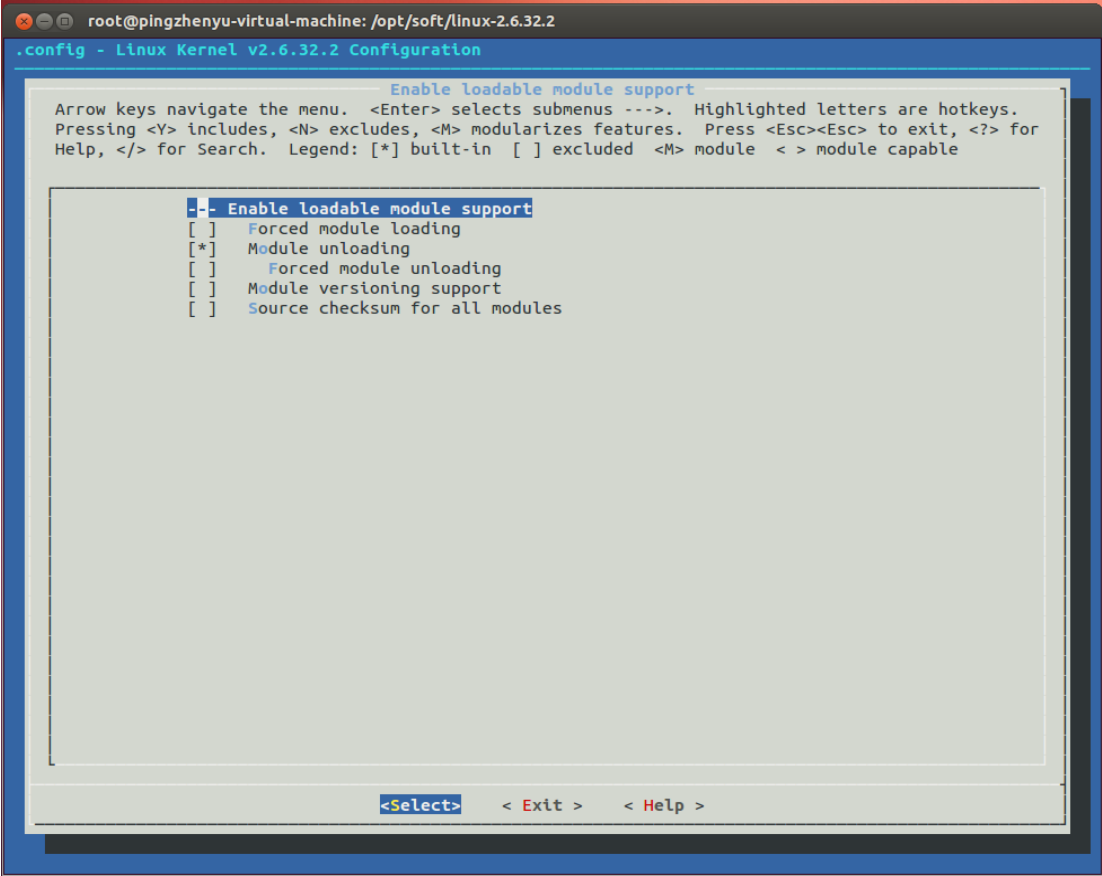
General setup
Arrow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys.
Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for
Help, </> for Search. Legend: [*] built-in [ ] excluded <M> module < > module capable

[*] Prompt for development and/or incomplete code/drivers
(-FriendlyARM) Local version - append to kernel release
[ ] Automatically append version information to the version string
[ ] Support for paging of anonymous memory (swap)
[*] System V IPC
[ ] POSIX Message Queues
[ ] BSD Process Accounting
[ ] Export task/process statistics through netlink (EXPERIMENTAL)
[ ] Auditing support
RCU Subsystem --->
< > Kernel .config support
(17) Kernel log buffer size (16 => 64KB, 17 => 128KB)
[ ] Group CPU scheduler
[ ] Control Group support --->
[ ] enable deprecated sysfs features which may confuse old userspace tools
[ ] Kernel->user space relay support (formerly relayfs)
-* Namespaces support
[ ] UTS namespace
[ ] IPC namespace
[ ] User namespace (EXPERIMENTAL)
[ ] PID Namespaces (EXPERIMENTAL)
[ ] Network namespace
[ ] Initial RAM filesystem and RAM disk (initramfs/initrd) support
[ ] Optimize for size
[ ] Configure standard kernel features (for small systems) --->
Kernel Performance Events And Counters --->
[ ] Disable heap randomization
Choose SLAB allocator (SLUB (Unqueued Allocator)) --->
v(+)
```

<Select> < Exit > < Help >



模块和快设备选项



处理器类型及特性

```
root@pingzhenyu-virtual-machine: /opt/soft/linux2.6
.config - Linux Kernel v2.6.32.11 Configuration

Processor type and features
Arrow keys navigate the menu. <Enter> selects 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

[*] Tickless System (Dynamic Ticks) (NEW)
[ ] High Resolution Timer Support (NEW)
[ ] Symmetric multi-processing support (NEW)
[*] Support for extended (non-PC) x86 platforms (NEW)
[ ] AMD Elan (NEW)
[ ] Moorestown MID platform (NEW)
[ ] RDC R-321x SoC (NEW)
[*] Single-depth WCHAN output (NEW)
[ ] Paravirtualized guest support (NEW) --->
[ ] Menteest (NEW)
    Processor family (Pentium-Pro) --->
[ ] Generic x86 support (NEW)
[ ] PentiumPro memory ordering errata workaround (NEW)
[ ] Supported processor vendors (NEW) --->
[ ] HPET Timer Support (NEW)
[*] Enable DMI scanning (NEW)
    Preemption Model (No Forced Preemption (Server)) --->
[ ] Local APIC support on uniprocessors (NEW)
[ ] Machine Check / overheating reporting (NEW)
[*] Enable VM86 support (NEW)
< > Toshiba Laptop support (NEW)
< > Dell laptop support (NEW)
[ ] Enable X86 board specific fixups for reboot (NEW)
< > /dev/cpu/microcode - microcode support (NEW)

v(+)
```



网络协议相关选项

```
root@pingzhenyu-virtual-machine: /opt/soft/linux-2.6.32.2
.config - Linux Kernel v2.6.32.2 Configuration

Networking support
Arrow keys navigate the menu. <Enter> selects 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

--- Networking support
    Networking options --->
    [ ] Amateur Radio support --->
    < > CAN bus subsystem support --->
    < > IrDA (infrared) subsystem support --->
    < > Bluetooth subsystem support --->
    < > RxRPC session sockets
    [*] Wireless --->
    < > WiMAX Wireless Broadband support --->
    < > RF switch subsystem support --->
    < > Plan 9 Resource Sharing Support (9P2000) (Experimental) --->

<Select> < Exit > < Help >
```



设备驱动选项

```
root@pingzhenyu-virtual-machine: /opt/soft/linux-2.6.32.2
.config - Linux Kernel v2.6.32.2 Configuration

Device Drivers
Arrow keys navigate the menu. <Enter> selects submenus ---. Highlighted letters are hotkeys.
Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for
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Generic Driver Options ---
< > Connector - unified userspace <-> kernelspace linker ---
<*> Memory Technology Device (MTD) support ---
< > Parallel port support ---
[*] Block devices ---
[ ] Misc devices ---
< > ATA/ATAPI/MFM/RLL support ---
SCSI device support ---
< > Serial ATA (prod) and Parallel ATA (experimental) drivers ---
[ ] Multiple devices driver support (RAID and LVM) ---
[*] Network device support ---
[ ] ISDN support ---
< > Telephony support ---
Input device support ---
Character devices ---
<*> I2C support ---
[ ] SPI support ---
PPS support ---
*- GPIO Support ---
< > Dallas's 1-wire support ---
< > Power supply class support ---
< > Hardware Monitoring support ---
< > Generic Thermal sysfs driver ---
[*] Watchdog Timer Support ---
Sonics Silicon Backplane ---
Multifunction device drivers ---
[ ] Voltage and Current Regulator Support ---
<*> Multimedia support ---

v(+)

<Select> < Exit > < Help >
```



文件系统类型选项

```
root@pingzhenyu-virtual-machine: /opt/soft/linux-2.6.32.2
.config - Linux Kernel v2.6.32.2 Configuration

File systems
Arrow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys.
Pressing <Y> includes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for
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< > Second extended fs support
< > Ext3 journalling file system support
< > The Extended 4 (ext4) filesystem
< > Reiserfs support
< > JFS filesystem support
< > XFS filesystem support
< > OCFS2 file system support
< > Btrfs filesystem (EXPERIMENTAL) Unstable disk format
< > NILFS2 file system support (EXPERIMENTAL)
[ ] Dnotify support
[ ] Inotify file change notification support
[ ] Inotify support for userspace
[ ] Quota support
< > Kernel automounter support
< > Kernel automounter version 4 support (also supports v3)
< > FUSE (Filesystem in Userspace) support
  Caches --->
    CD-ROM/DVD Filesystems --->
    DOS/FAT/NT Filesystems --->
    Pseudo filesystems --->
  [*] Miscellaneous filesystems --->
  [*] Network File Systems --->
    Partition Types --->
  -* Native language support --->
< > Distributed Lock Manager (DLM) --->

<Select> < Exit > < Help >
```

