KERNEL **Enabling devtmpfs support**

```
Device Drivers --->
  Generic Driver Options --->
    [*] Maintain a devtmpfs filesystem to mount at /dev
    [*]   Automount devtmpfs at /dev, after the kernel mounted the rootfs
```

KERNEL **Enabling SCSI disk support**

```
Device Drivers --->
   SCSI device support  --->
      <*> SCSI disk support
```

KERNEL **Selecting necessary file systems**

```
File systems --->
  <*> Second extended fs support
  <*> The Extended 3 (ext3) filesystem
  <*> The Extended 4 (ext4) filesystem
  <*> Reiserfs support
  <*> JFS filesystem support
  <*> XFS filesystem support
  <*> Btrfs filesystem support
  DOS/FAT/NT Filesystems  --->
    <*> MSDOS fs support
    <*> VFAT (Windows-95) fs support

Pseudo Filesystems --->
    [*] /proc file system support
    [*] Tmpfs virtual memory file system support (former shm fs)
```

KERNEL **Activating SMP support**

```
Processor type and features  --->
  [*] Symmetric multi-processing support
```

KERNEL **Activating USB support for input devices**

```
Device Drivers --->
  HID support  --->
    -*- HID bus support
    <*>    Generic HID driver
    [*]    Battery level reporting for HID devices
      USB HID support  --->
        <*> USB HID transport layer
  [*] USB support  --->
    <*>      xHCI HCD (USB 3.0) support
    <*>      EHCI HCD (USB 2.0) support
    <*>      OHCI HCD (USB 1.1) support
```

KERNEL **Selecting processor types and features**

```
Processor type and features  --->
   [ ] Machine Check / overheating reporting
   [ ]    Intel MCE Features
   [ ]    AMD MCE Features
   Processor family (AMD-Opteron/Athlon64)  --->
      ( ) Opteron/Athlon64/Hammer/K8
      ( ) Intel P4 / older Netburst based Xeon
      ( ) Core 2/newer Xeon
      ( ) Intel Atom
      ( ) Generic-x86-64
Executable file formats / Emulations  --->
   [*] IA32 Emulation
```

KERNEL **Enable support for GPT**

```
-*- Enable the block layer --->
   Partition Types --->
      [*] Advanced partition selection
      [*] EFI GUID Partition support
```

KERNEL **Enable support for UEFI**

```
Processor type and features  --->
    [*] EFI runtime service support
    [*]   EFI stub support
    [*]      EFI mixed-mode support

Firmware Drivers  --->
    EFI (Extensible Firmware Interface) Support  --->
        <*> EFI Variable Support via sysfs
```

KERNEL **Enabling evdev in the kernel**

```
Device Drivers --->
  Input device support --->
  <*>  Event interface
```

KERNEL **Disable legacy framebuffer support and enable basic console FB support**

```
Device Drivers --->
  Graphics support --->
    Frame Buffer Devices --->
      <*> Support for frame buffer devices --->
      ## (Disable all drivers, including VGA, Intel, NVIDIA, and ATI, except EFI-based Framebuffer Support, only if you are using UEFI)

  ## (Further down, enable basic console support. KMS uses this.)
  Console display driver support --->
    <*>  Framebuffer Console Support
```

```
Device Drivers  --->
          Graphics support  --->
              <*> /dev/agpgart (AGP Support)  --->
                  --- /dev/agpgart (AGP Support)
                  < >    AMD Opteron/Athlon64 on-CPU GART support
                  -*-    Intel 440LX/BX/GX, I8xx and E7x05 chipset support
                  < >    SiS chipset support
                  < >    VIA chipset support
              [ ] VGA Arbitration
              [ ] Laptop Hybrid Graphics - GPU switching support
              <*> Direct Rendering Manager (XFree86 4.1.0 and higher DRI support)  --->
                  --- Direct Rendering Manager (XFree86 4.1.0 and higher DRI support)
                  [*]   Enable legacy fbdev support for your modesetting driver
              [ ] Allow to specify an EDID data set instead of probing for it
                  I2C encoder or helper chips  --->
              < > 3dfx Banshee/Voodoo3+
              < > ATI Rage 128
              < > ATI Radeon
              < > AMD GPU
              < > Nouveau (NVIDIA) cards
              < > Intel I810
              <*> Intel 8xx/9xx/G3x/G4x/HD Graphics
              [ ]   Enable alpha quality support for new Intel hardware by default
              < > Matrox g200/g400
              < > SiS video cards
              < > Via unichrome video cards
              < > Savage video cards
              < > Virtual GEM provider
              < > DRM driver for VMware Virtual GPU
              < > Intel GMA5/600 KMS Framebuffer
              < > DisplayLink
              < > AST server chips
              < > Kernel modesetting driver for MGA G200 server engines
              < > Cirrus driver for QEMU emulated device
              < > QXL virtual GPU
              < > DRM Support for bochs dispi vga interface (qemu stdvga)
                  Display Panels  ----
                  Display Interface Bridges  ----
                  Frame buffer Devices  --->
              -*- Backlight & LCD device support  --->
                  Console display driver support  --->
              [*] Bootup logo  --->
```

KERNEL

```
Power management and ACPI options --->
    [*] Suspend to RAM and standby
    [*] Hibernation (aka 'suspend to disk')
```