

GRUB2 transition

GRUB 0.97 is dead. Viva GRUB2

GRUB2 history

- 1995: Start of GRUB Legacy
- 1999: GRUB Legacy becomes GNU project
- 2002: PUPA (Yoshinori K Okuji)
- 2004: GRUB2
- 2004: PowerPC port.
- 2005: Sparc64 port.
- 2006: EFI port.

GRUB2 history (continued)

- 2007: LinuxBIOS (now Coreboot) port
- 2008: OLPC port.
- 2009: Yeeloong second-stage bootloader
- 2009: QEMU port.
- 2010: Yeeloong firmware bootloader
- 2011?: Fulong and IA64 ports, Beagleboard (ARM) ?

Design principles

- Memory heap.
- grub_POSIX-like.
- Modularisation.
- Portability.
- Supporting both firmware and direct hardware access functions.
- GRand and Unified.
- Configurability.
- Bash-like scripting support.

Design principles

- Autogenerated config in most cases.
- Unicode support.
- Single-threaded.
- User interaction.

Advantages

- Maintained.
- Multiplatform.
- Translated / translatable (consult translationproject.org)
- RTL-capable rendering.
- Multiterminal (e.g. serial and local)
- GPT support even on BIOS. Adios 2TiB limit.
- Scriptable

Advantages (continued)

- LVM
- RAID
- Direct hw access possibility
- Bootable from CD on most platforms (grub-mkrescue).
- Creates multi-platform Cds/DVDs
- Extensible and flexible authentication framework
- Sendkey (BIOS-only)

Advantages (continued)

- Autodetection config support (optional)
- Vendor power-on button.
- Hotkeys support.
- Upcoming: braille support



GRUB OS selection



Ubuntu 8.04 ၵုၵ်ႉပိၵ်ႉၵုၵ်ႉ

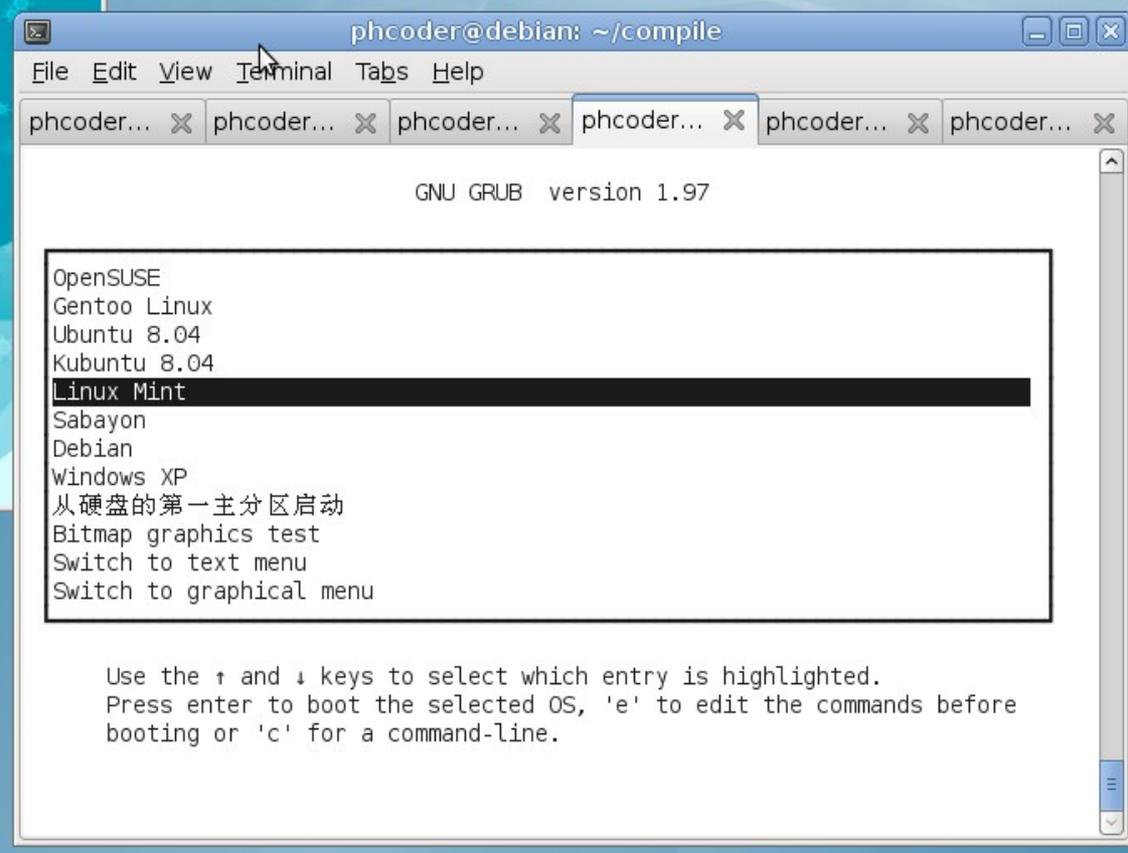
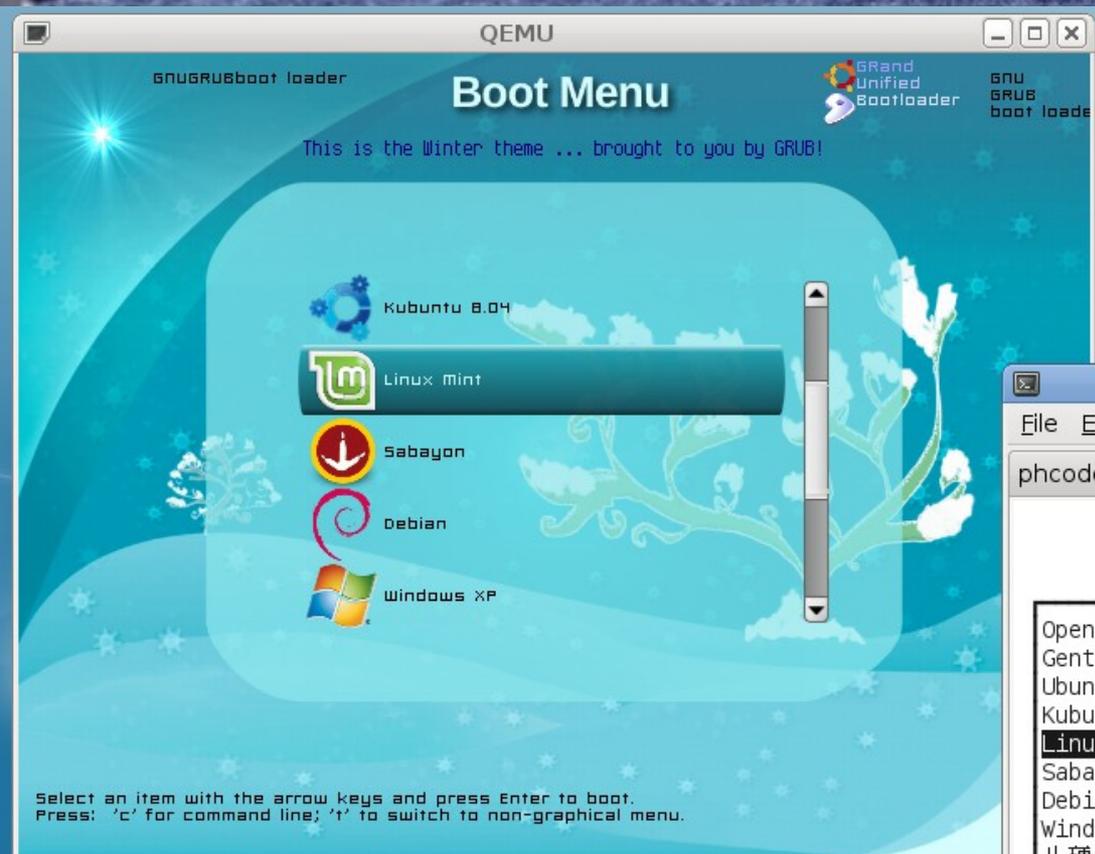


ၵုၵ်ႉပိၵ်ႉ (SUSE)



Gentoo Linux ၵုၵ်ႉ

To boot the selected operating system using default settings, press return. For additional settings, press E



Transition problems and solutions

- BIOS bugs.
- New configuration. But menu.lst is supported.
- Different defaults.
- Need to package it.
- Don't forget to create BIOS Boot Partition.

Questions?