

Super Grub Disk

Recover your Linux boot!

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DOCUMENTATION AS A PDF FILE



INTRODUCTION



Have you got a boot problem?

The first thing you have to know is that if you cannot boot your linux os that means that all the data that you collected on it it is LOST. Hey... it is not true! I am just joking.

If you cannot boot on Linux system this does not mean that you have lost all your information on Linux.

You can download Super Grub Disk from [Download page](#) and begin to use it because it is very easy to use.



HOW TO GET HELP



If it is the first time you play with boot loaders you may be scared as I was myself when I first begin playing with my pc. You can see how to use Super Grub Disk on the marvellous [Herman's Super Grub Disk Webpage](#) where you will find a lot of screenshots of the steps you need to issue to fix your boot problems.

Once you have tried many things you may encounter a problem, which may have been solved before. That is why you should look the: [Faq webpage](#)

Once you have seen that your problem is not listed in the Faq webpage you should see the [forum](#) and search on it for posts similar to your problem.

Your problem is not listed there... you are welcome to start a new thread on the [forum](#) and tell us what is your problem.

Depending on the problem this information may be revelant:

- Bios & MotherBoard manufacturer
- Linux Distribution you try to recover
- menu.lst contents



RESTORE GRUB IN 3 STEPS



Help: Use these three keys: Up (), Down () y



Enter (or Intro or Return) ()

```

Super Grub Disk based on GNU GRUB version 0.97-os.1 (639K lower / 130048K upper memory)

[2]
<--Main Menu.lst
*S.G.D. Language Selection.
English Super Grub Disk
Castellano Super Disco Grub
Catala Super Disc Grub
Euskera Super Grub Dizka
Galego Super Disco Grub
Deutsche Super-GRUB-Disk
Francais Super Grub Disk
Magyar Super Grub Disk
Slovensky Super Grub Disk
...Copyright (GPL 2 License)

Press enter or → to boot the selected OS, 'e' to edit the
commands before booting, 'r' to reload, 'c' for a command-line,
'/?nN' to search or ← to go back if possible.

catis on
configfile (cd)/boot/sgd/S10en/menu.lst
INTRODUCTION

Grub is a very complete boot loader which can do much
more than just boot operating systems (OSes).

This GRUB disk helps people to discover these lesser known
options. It also helps people solving common boot problems
by running various Grub commands which you will find
wrapped on simple menus.

Super Grub Disk has an educational aim also.
Each option has its own explanation.

However Super Grub Disk can be very Super but...
it is NOT perfect, so...

Any requests or ideas for improvements are welcome.
Please send email with subject:SGD "your idea"
to:

adrian15 ARROBA raulete PUNTO net

[Hit return to continue]
wrapped on simple menus.

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Please send email with subject:SGD "your idea"
to:

adrian15 ARROBA raulete PUNTO net

(where ARROBA is @ and PUNTO is .)
Pause. Press a key.
Super Grub Disk 0.9624
IU_JORNADAS_DE_SOFTWARE_LIBRE_HALT_EN_TERUEL Edition
Copyright (C) 2005,2006,2007 adrian15
Super Grub Disk comes with ABSOLUTELY NO WARRANTY; for details see
Copyright in the menu.
This is free software, and you are welcome to redistribute it
under certain conditions; for details see Copyright in the menu.
Pause. Press a key.

```

- **STEP 1: Gnu/Linux**

```

Super Grub Disk based on GNU GRUB  version 0.97-os.1  (639K lower / 130048K upper memory)

[2]
<--S.G.D. Language Selection. (Go back)
|=====|> English Super Grub Disk (Help) <=====|
Gnu/Linux
Windows
Boot & Tools
Advanced
Quit

Press enter or + to boot the selected OS, 'e' to edit the
commands before booting, 'r' to reload, 'c' for a command-line,
'/?nN' to search or ← to go back if possible.

-----
Booting 'Gnu/Linux'
-----
catis on
configfile (cd)/boot/sgd/S10en/S10_linux/menu.lst
-----Gnu/Linux (Help) -----

Fix Boot of Gnu/Linux (GRUB):
  Tries to restore grub on the MBR automatically for you.
Boot Gnu/Linux:
  Automatically finds an existing grub menu with all your
operating system entries on it. Select one and boot it.
Boot Gnu/Linux Directly:
  Also automatic, try this option if the former did not work.
Gnu/Linux (Advanced):
  Manual or Automatic, if you're an advanced user, and you need
to specify manually the disk and partition for Grub, Lilo or Linux files
and boot Gnu/Linux.
TIP: If you cannot restore Grub or Lilo on the MBR automatically, you
can still try the Boot Gnu/Linux options, boot your system,
and fix the problem from inside the system, and even use the internet.
Pause. Press a key.

```

- **STEP 2: Fix Boot of Linux (Grub)**

```

Super Grub Disk based on GNU GRUB  version 0.97-os.1  (639K lower / 130048K upper memory)

[2]
<--English Super Grub Disk (Go back)
|=====|> Gnu/Linux (Help) <=====|
Fix Boot of Gnu/Linux (GRUB)
Boot Gnu/Linux
Boot Gnu/Linux Directly
Gnu/Linux (Advanced)

Press enter or + to boot the selected OS, 'e' to edit the
commands before booting, 'r' to reload, 'c' for a command-line,
'/?nN' to search or ← to go back if possible.

```

- **STEP 3: select your Linux partition**


```

Super Grub Disk based on GNU GRUB version 0.97-os.1 (639K lower / 130048K up
per memory)

```

```

[0]
<--GRUB (Go back)
|=====|> Restore GRUB in Hard Disk (MBR) (Help) <=====|
Automatically Install
Manual Restore GRUB in Hard Disk (MBR)

```

Press enter or + to boot the selected OS, 'e' to edit the commands before booting, 'r' to reload, 'c' for a command-line, '/?nN' to search or + to go back if possible.

```

Super Grub Disk based on GNU GRUB version 0.97-os.1 (639K lower / 130048K up
per memory)

```

```

[0]
<--Advanced (Go back)
|=====|> GRUB (Help) <=====|
Boot Your Gnu/Linux (or other OS) again
Restore GRUB in Hard Disk (MBR)
Restore GRUB in Partition
Uninstall GRUB (MBR)

```

Press enter or + to boot the selected OS, 'e' to edit the commands before booting, 'r' to reload, 'c' for a command-line, '/?nN' to search or + to go back if possible.

```

Super Grub Disk based on GNU GRUB version 0.97-os.1 (639K lower / 130048K up
per memory)

```

```

[0]
<--English Super Grub Disk (Go back)
|=====|> Advanced (Help) <=====|
GRUB
LILO
Gnu/Linux (Advanced)
Windows (Advanced)
Boot other OSes
Special Boot
Configuration
Miscellanea

```

Press enter or + to boot the selected OS, 'e' to edit the commands before booting, 'r' to reload, 'c' for a command-line, '/?nN' to search or + to go back if possible.

- **Salir**

```

Super Grub Disk based on GNU GRUB  version 0.97-os.1  (639K lower / 130048K up
per memory)

[6]
<--S.G.D. Language Selection. (Go back)
|=====> English Super Grub Disk (Help) <=====+
Gnu/Linux
Windows
Boot & Tools
Advanced
Quit

```

Press enter or → to boot the selected OS, 'e' to edit the commands before booting, 'r' to reload, 'c' for a command-line, '/?nN' to search or ← to go back if possible.

- **STEP 6: Reboot PC**

```

Super Grub Disk based on GNU GRUB  version 0.97-os.1  (639K lower / 130048K up
per memory)

[3]
<--English Super Grub Disk (Go back)
|=====> Quit (Help) <=====+
Halt P.C.
Reboot P.C.

```

Press enter or → to boot the selected OS, 'e' to edit the commands before booting, 'r' to reload, 'c' for a command-line, '/?nN' to search or ← to go back if possible.



- **STEP 7: Remove SGD cd and boot your Linux.**

```

Guadalinex, kernel 2.6.17-10-generic
Guadalinex, kernel 2.6.17-10-generic (Modo de recuperacion)
Guadalinex, test de memoria
Other operating systems:
Microsoft Windows XP Professional
Debian GNU/Linux, kernel 2.6.18-4-k7 (on /dev/sda3)
Debian GNU/Linux, kernel 2.6.18-4-k7 (single-user mode) (on /dev/sda3)
Fedora Core (2.6.18-1.2849.fc6) (on /dev/sda6)

```

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands before booting, or 'c' for a command-line.



This guide assumes that you have installed Super Grub Disk on to a cdrom, floppy or usb and you have booted from it and then you have selected your language and thus you're reading the Super Grub Disk main menu.

Index:

- **Question: I reinstalled Windows and Linux does not boot.**
 - **Answer1: Let's recover the Linux boot**
 - **Answer2: Boot linux now!**
 - **Answer3: Boot linux now! (method 2)**
- **Question: I reinstalled Windows and Linux does not boot.**
 - **Answer1: Let's recover the Linux boot**
 - **Gnu/Linux**
 - **Fix Boot of Gnu/Linux (Grub)**
 - *select your Linux partition*
 - SGD has succeeded
 - **Go back to Main menu**
 - **Exit**
 - **Reboot P.C.**
 - **Remove the SGD disk and boot into your Linux.**
 - **Answer2: Boot Linux now!**
 - **Gnu/Linux**
 - **Boot Gnu/Linux**
 - *select your Linux partition*
 - Linux boots.
 - **Answer3: Boot Linux now! (Method 2)**
 - **Gnu/Linux**
 - **Boot Gnu/Linux Directly**
 - *select your Linux partition several times*
 - Linux boots.



What is Super Live Boot?

Super Live Boot is a Super Grub Disk fork that it is used as a boot interface for Knoppix or other live cds.

Thanks to Super Live Boot the user can choose, among other options, what language should have the distribution.

Here there are some snapshots:

Distribution main menu:

SLB Interface Language Selection Menu:

Boot Options Selection Menu:

Language Selection Menu:

Language and keyboard Selection Menu:

In this step Knoppix should boot.

If the user do not type any key then he is being lead to each of the menues automatically.



DOCUMENTACION AVANZADA



- **Want to develop SGD or help in its development?**

Come and join us in the [Super Grub Disk mailing list](#).

You may find some answers to some problems on the [super grub mailing list archive](#) too.

- **Want to know how to use SGD in various scenarios?**

Take a look at: [Herman's Super Grub Disk Webpage](#) where you will find:

- Introduction
- Main Purposes of Super Grub Disk
- Where to get Your Super Grub Disk
- How to burn your bz2 file to Disk
- Situations where Super Grub Disk is useful
- How To Use Super Grub Disk
- **A Guided Tour of Super Grub Disk 0.9528**
- **Common Booting Errors and Some Possible Cures**
- How To Build a Super Grub Disk/GParted CD / DVD

- **Want to know how to translate SGD into your language?**

These are the instructions:

- (Sorry for the instructions being NOT clean and neat.)

Untar [source code of Super Grub Disk](#) somewhere in your filesystem.

```
cd to /dev_sgd
copy recursively "en" folder to "yourlanguage" folder (i.e. fr)
```

```
cd to "yourlanguage"
```

```
Go inside conf folder and translate:
S02_main.sh S030_messages.sh translate.sh
```

```
you have to translate the strings inside "" (on the right)
```

Be careful with strange characters, if you need to use " escape it with \.

return to "yourlanguage" and then translate all the help.txt files that you will find

and all the .txt files that you may find inside help folders (which are usually found

inside sgd_module folders)

Ah! Do not translate the txt files from folders that do not have sgd_module inside it...

because they may be options that are not used... although if you translate them you

won't need to translate them in a future.

Example with Euskera

```
cd dev
cp -R en eu # eu is not created before this command (If it is created you
will put en inside eu)
cp -R es/* eu
cd eu
```

```
cd conf
gedit S02_main.sh
gedit S030_messages.sh
gedit translate.sh
```

1. you have to translate the strings inside "" (on the right)
2. Be careful with strange characters, if you need to use " escape it with \.

```
cd ..
for $n in `find txt` do gedit $n ;
# It won't work because I'm not good at these bash fors, I think one ; or
two will be useful
```

1. Ah! Do not translate the txt files from folders that do not have sgd_module inside it...
2. because they may be options that are not used... although if you translate them you
3. won't need to translate them in a future.

Notes about translate.sh:

SDG_TRANSLATE_BASE_DIR denotes one of the languages folder.

This is how the building of a gsd language folder works.

An empty folder is created.

Imperium language (usually en) is copied into it.
SDG_TRANSLATE_BASE_DIR is copied into it.
"Yourlanguage" is copied into it.

This is useful for fast translations of languages that are inside a country that speaks other language that is not the imperium language.

Example: Euskera.

Euskera is a language that is spoken in "El Pais Vasco" a portion of earth inside Spain.

(Note for USAians: Spain is a country in the south of Europa)

Main language in Spain is Spanish.

Imperium language is English.

So...

Imagine that 100% of GSD is translated into English (ins't it obvious, it's the imperium language)

Imagine that 80% of GSD is translated into Spanish (This will happen if I'm too lazy and I only make new translations into English :) or if other developer takes GSD developing leader role.)

Imagine that 0% of GSD is translated into Euskera.

So what happens... that an Euskera teenage or whoever try to begin translation and only translates translate.sh and activate option.

Will other options be in NOTHING... because they are not translated ? No.

Euskera users will find menus translated into Euskera and the activate option.

Most of the rest of options and help will be in Spanish. (Most of the Euskera people understand Spanish)

And the new options that I wouldn't have translated into Spanish will be in English.

Testing your translation

Run ./test_cdrom_with_qemu.sh script from dev folder.

SGD should appear in two or ten minutes depending on your cpu (sorry gsd build script isn't very optimized)
inside a qemu window.

You can also build a SGD cdrom with the:

```
./build_cdrom_iso.sh /tmp/mysgd.iso
```

• **Want to know how to build a custom cdrom with SGD on it?**

Note: This documentation refers to Super Grub Disk 0.9396 version and upper.

There are so far 2 ways of Building a bootable cd that has Super Grub Disk on it.

- 1) Using Isolinux
- 2) Using Super Grub itself.

1) Using Isolinux.

If you do not want to take advantage of Super Grub Boot features, such as passing booting device to kernel and the gfxboot thing you can stick to Isolinux/SysLinux.

Download a img file for a Super Grub Disk floppy (It does not work with ISOs)
- Rename it to sgden.img and place it on /boot/sgd.img on your cd tree.
- Edit isolinux.cfg file and add these two lines like this:

```
LABEL Super Grub Disk  
kernel /boot/sgd.img
```

Now you can take your cd tree. Do the mkisofs that you've always have done and then burn it to a cd and selecting Super Grub Disk from the menu would make Syslinux emulate the boot of A: with the img. As syslinux says it does not work you on all the computers.

2) Using Super Grub itself

Update

You can find a more extended and better explained howto on how to build a super grub cd with grub in the herman webpage:

[How to build a Super Grub Disk GParted](#)

This option has the advantage that you can pass booting device to your kenrel and you have cool graphics thanks to gfxboot.

Let's suppose that it is Knoppix the distro where you want to add Super Grub

Disk.

Let's see.

- 1) Copy-Paste the Knoppix Cd to a folder in the hard disk which we will name as: TheTree
- 2) Now we're working on the folder TheTree.
- 3) Rename /boot/message to /boot/mymessage if there's any.
- 4) Rename /boot/grub/menu.lst to /boot/grub/mymenu.lst if this is not knoppix but something as kanotix.
- 5) Copy-Paste the Super Grub Disk Cd to TheTree folder.
- 6) Check the file distro_menu.lst. Your distro boot should be reflected in there. We will see it in detail.

6.1) This is a part of Knoppix's isolinux.cfg

```
LABEL knoppix
KERNEL linux
APPEND ramdisk_size=100000 init=/etc/init lang=us apm=power-off vga=791
initrd=minirt.gz nomce quiet BOOT_IMAGE=knoppix
```

In the distro_menu.lst you see:

```
title Inicio normal / Normal Boot
kernel $(grub_device)/vmlinuz lang=es ally=none root=/dev/ram0
ramdisk_size=100000 initrd=initramfs quiet BOOT=live splash initrd
$(grub_device)/initramfs
```

you have to substitute it with:

```
title Knoppix 2.6
kernel $(grub_device)/boot/isolinux/linux ramdisk_size=100000
init=/etc/init lang=us apm=power-off vga=791 nomce quiet BOOT_IMAGE=knoppix
initrd $(grub_device)/boot/isolinux/minirt.gz
```

Check as initrd references disappears from Kernel line and it is on initrd line itself.

Change default 2 to default 0.

Change timeout 2 to timeout 12.

And I'm in a hurry... so maybe you're done.

```
mkisofs -R -b boot/grub/stage2_eltorito -no-emul-boot -boot-load-size 4
-boot-info-table -o grub.iso thetree
```

where thetree is the folder we are always talking about.

If it does not work properly send an email to [adrian15sgd THEROUNDTHING gmail DOT com](mailto:adrian15sgd@theroundthing.com).



Other: Linux Magazine Article



[SGD Linux Magazine Article - "SGD al rescate"\(Spanish\)](#)

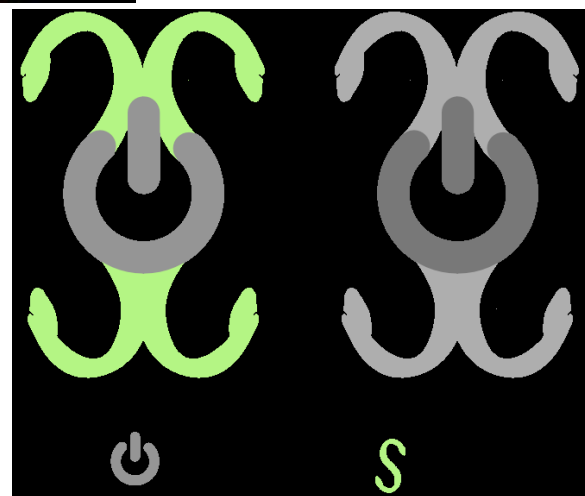


SGD PEOPLE (CREDITS)



Super Grub Disk Team:

- **Adam Lackorzynski**
 - Grub legacy variables patch
 - Grub many features patch
- **adrian15**
 - Team Leader
 - Grub legacy hacks
 - build.sh idea
 - English and Spanish translation
- **Alberto Morales (amd77)**



- Bios Date and Clock source code
- **Fimn**
 - Euskera translation
- **Herman Felderhof**
 - Graphical English documentation
 - Great tester!
- **Jan farres**
 - Catalan translation
- **Juan Luis Lledó**
 - Webmaster
 - Fix Boot of Windows Partition Patch
- **Michael Schierl**
 - German translation
 - German setkeys script
 - Great tester!
- **Neb Ben**
 - Original Logo Designer
 - French translation
- **Tim Deegan**
 - Grub Legacy Error 25 when reading secondary partitions patch
- **Shudong Zhou (Does anyone have his email?)**
 - Solaris Grub patch.
- **SuSE (maybe Novell right now)**
 - Gfxboot menu

Other credits:

Thanks to howto-linux.de we can host our:

- Webpage source code
- Super Grub Disk images (Floppy, isos, usb)
- Distros plus Super Grub Disk (Ubuntu+SGD or Knoppix+SGD or Gparted+SGD,...)

Yoshinori K. Okuji, Marco Gerards, hollisb, 8086 and in general all the GNU Grub

legacy and GNU grub2 team which have to deal with my:

- Super Grub Disk advertisements
- My continous ambition of modifying Grub Legacy which is condemned to disappear.
- Irc discusssions

(adrian15 speaking here)

And finally:

YOU: The normal user who has send any email to tell us about any error or suggestion of improvement.



Super Grub Disk documentation

- [Super Grub Disk page by Herman](#)

Boot Documentation

- [Illustrated Dual Boot site \(By Herman!\)](#)

Grub links

- [GNU GRUB and GRUB2 wiki](#)
- [GNU GRUB](#)

Alternative flavours of Grub

- [WIN32 Grub](#)
- [WinGRUB](#)
- [GRUB installer for Windows](#)
- [The all in one Disk \(by Michael Schierl\)](#)
- [GRUB for DOS](#)
- [GRUB fancy menu](#)

Grub documentation

- [Booting with GRUB](#)
- [StrongHelp manuals online](#)

