



Boot Info Script 0.61 [1 April 2012]

Identifying MBRs...

Computing Partition Table of /dev/sda...

Computing Partition Table of /dev/sdb...

Searching sda1 for information...

Searching sdb1 for information...

Searching sdb2 for information...

Searching sdb5 for information...

Boot Info Script 0.61 [1 April 2012]

=====
===== Boot Info Summary:
=====

=> Syslinux MBR (4.04 and higher) is installed in the MBR of /dev/sda.

=> Grub2 (v1.99) is installed in the MBR of /dev/sdb and looks at sector 1 of the same hard drive for core.img. core.img is at this location and looks in partition 112 for .

sda1:

File system: ntfs

Boot sector type: Windows XP: NTFS

Boot sector info: No errors found in the Boot Parameter Block.

Operating System: Windows XP

Boot files: /grub2/grub.cfg /boot.ini /ntldr /NTDETECT.COM

sdb1:

File system: ext4

Boot sector type: -

Boot sector info:

Operating System: Linux Mint 17.2 Rafaela

Boot files: /boot/grub/grub.cfg /etc/fstab

sdb2:

File system: Extended Partition

Boot sector type: Unknown

Boot sector info:

sdb5:

File system: swap

Boot sector type: -

Boot sector info:

===== Drive/Partition Info:

=====

Drive: sda

Disk /dev/sda: 500.1 GB, 500107862016 bytes

224 heads, 19 sectors/track, 229504 cylinders, total 976773168 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

Partition	Boot	Start Sector	End Sector	# of Sectors	Id System
-----------	------	--------------	------------	--------------	-----------

/dev/sda1	*	19	976,764,767	976,764,749	7 NTFS / exFAT / HPFS
-----------	---	----	-------------	-------------	-----------------------

Drive: sdb

Disk /dev/sdb: 500.1 GB, 500107862016 bytes

255 heads, 63 sectors/track, 60801 cylinders, total 976773168 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

Partition	Boot	Start Sector	End Sector	# of Sectors	Id	System
/dev/sdb1	*	2,048	961,148,927	961,146,880	83	Linux
/dev/sdb2		961,150,974	976,771,071	15,620,098	5	Extended
/dev/sdb5		961,150,976	976,771,071	15,620,096	82	Linux swap / Solaris

"blkid" output:

Device	UUID	TYPE	LABEL
/dev/sda1	3A64FD6164FD2075		ntfs
/dev/sdb1	1375e597-5dd4-49d5-b38e-16875f8c44d0	ext4	
/dev/sdb5	d332cc01-74ca-4247-ab91-ad843355714d	swap	

=====
 ===== Mount points:
 =====

Device	Mount_Point	Type	Options
/dev/sdb1	/	ext4	(rw,errors=remount-ro)

=====
 ===== sda1/grub2/grub.cfg:
 =====

```

-----
#
# This is the basic default grub2.cfg file for Grub2Win
#
# On BIOS systems, only the Boot Information menu selection will be visible
#
# On EFI systems, the Windows EFI Boot Manager will also be available
#
#
# The Grub default timeout is 30 seconds

```

```

#

set default=0
set lang=en
set pager=1
set timeout=30
set icondir=$prefix/themes/icons
set locale_dir=$prefix/locale
set grub2win_procbits=32
if [ cpuid -l ] ; then set grub2win_procbits=64 ; fi
set gfxmode=1024x768,800x600,auto
set gfxpayload=text
set grub2win_efilevel=
set grub2win_bootmode=BIOS
if [ $grub_platform = efi ] ; then set grub2win_bootmode=EFI ; fi
set theme=$prefix/themes/custom.config
if [ $grub2win_bootmode = EFI ] ; then set theme=$theme.efi.txt ; else set
theme=$theme.bios.txt ; fi
insmod png
insmod all_video
loadfont $prefix/fonts/unicode.pf2
terminal_output gfxterm
insmod gfxmenu

# start-grub2win-auto-menu-section *****
#
#
# Menu Entry    Windows EFI Boot Manager    This only appears on EFI systems
#
#
if [ $grub_platform = efi ] ; then
    menuentry 'Windows EFI Boot Manager' --class windows --class icon-windows {
        set efibootmgr=/efi/Microsoft/Boot/bootmgfw.efi
        getbootpartition file $efibootmgr
        echo Grub is now booting  Windows EFI Boot Manager
        echo Boot disk address is $root
        echo The boot mode is    Windows EFI
        sleep -v -i 5
        chainloader $efibootmgr
    }

```

```

    }
fi

#
# Menu Entry    Display boot information
#
menuentry 'Boot information and Utilities' --class bootinfo --class icon-bootinfo {
    clear
    set pager=0
    set grub2win_chosen='0 - Windows Boot Manager'
    set grub2win_lastbooted=no
    export gfxmode
    export grub2part
    export grub2win_chosen
    export grub2win_lastbooted
    export grub2win_version
    export grub2win_procbits
    export grub2win_bootmode
    export grub2win_efiboot
    export grub2win_efilevel
    configfile $prefix/winsource/bootinfo.cfg
}

#
# end-grub2win-auto-menu-section *****

# start-grub2win-getbootpartition-section *****
#
# The getbootpartition function searches for a partition
# If the first paramater is "label" it searches for a partition with the label name
# passed in the second parameter. Otherwise it searches for a file with the filename
# passed in the second parameter.
# It then sets the root address to prepare for boot.
#
#
function getbootpartition {
    set pager=0
    set searchtype=$1
    set partsearch=$2

```

```

if [ $searchtype = label ] ; then
    search.fs_label $partsearch rootaddress
else
    search.file    $partsearch rootaddress
fi
if [ $? = 0 ] ; then
    set root=($rootaddress)
    echo
    echo -n Grub is setting root to $root
    echo " The boot partion $searchtype is $partsearch"
    echo
    return 0
else
    echo
    echo
    echo *** Grub did not find a boot partition with $searchtype $partsearch
    echo *** Press the ESC key to continue
    echo
    sleep -v -i 120
    configfile $prefix/grub.cfg
fi
}
#
# end-grub2win-getbootpartition-section *****

# start-grub2win-user-section *****
#
#
# end-grub2win-user-section *****_-----
-----

===== sda1/boot.ini:
=====

-----

[boot loader]
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]

```

```
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Microsoft Windows XP Professional"
/noexecute=optin /fastdetect
```

```
C:\g2xpstub="Grub 2 For Windows"-----
```

```
--
```

```
===== sda1: Location of files loaded by Grub: =====
```

GiB - GB	File	Fragment(s)
----------	------	-------------

```
===== sdb1/boot/grub/grub.cfg:
```

```
=====
```

```
-----
#
# DO NOT EDIT THIS FILE
#
# It is automatically generated by grub-mkconfig using templates
# from /etc/grub.d and settings from /etc/default/grub
#
```

```
### BEGIN /etc/grub.d/00_header ###
```

```
if [ -s $prefix/grubenv ]; then
```

```
  set have_grubenv=true
```

```
  load_env
```

```
fi
```

```
if [ "${next_entry}" ]; then
```

```
  set default="${next_entry}"
```

```
  set next_entry=
```

```
  save_env next_entry
```

```
  set boot_once=true
```

```
else
```

```
  set default="0"
```

```
fi
```

```
if [ x"${feature_menuentry_id}" = xy ]; then
```

```
  menuentry_id_option="--id"
```

```
else
```

```

    menuentry_id_option=""
fi

export menuentry_id_option

if [ "${prev_saved_entry}" ]; then
    set saved_entry="${prev_saved_entry}"
    save_env saved_entry
    set prev_saved_entry=
    save_env prev_saved_entry
    set boot_once=true
fi

function savedefault {
    if [ -z "${boot_once}" ]; then
        saved_entry="${chosen}"
        save_env saved_entry
    fi
}

function recordfail {
    set recordfail=1
    if [ -n "${have_grubenv}" ]; then if [ -z "${boot_once}" ]; then save_env recordfail; fi; fi
}

function load_video {
    if [ x$feature_all_video_module = xy ]; then
        insmod all_video
    else
        insmod efi_gop
        insmod efi_uga
        insmod ieee1275_fb
        insmod vbe
        insmod vga
        insmod video_bochs
        insmod video_cirrus
    fi
}

if [ x$feature_default_font_path = xy ] ; then
    font=unicode

```

```
else
insmod part_msdos
insmod ext2
set root='hd1,msdos1'
if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
else
    search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
fi
    font="/usr/share/grub/unicode.pf2"
fi

if loadfont $font ; then
    set gfxmode=auto
    load_video
    insmod gfxterm
    set locale_dir=$prefix/locale
    set lang=en_US
    insmod gettext
fi
terminal_output gfxterm
if [ "${recordfail}" = 1 ] ; then
    set timeout=-1
else
    if [ x$feature_timeout_style = xy ] ; then
        set timeout_style=menu
        set timeout=10
        # Fallback normal timeout code in case the timeout_style feature is
        # unavailable.
    else
        set timeout=10
    fi
fi
### END /etc/grub.d/00_header ###

### BEGIN /etc/grub.d/05_debian_theme ###
set menu_color_normal=white/black
set menu_color_highlight=black/light-gray
```

```
### END /etc/grub.d/05_debian_theme ###
```

```
### BEGIN /etc/grub.d/06_mint_theme ###
```

```
set menu_color_normal=white/black  
set menu_color_highlight=white/light-gray  
### END /etc/grub.d/06_mint_theme ###
```

```
### BEGIN /etc/grub.d/10_linux ###
```

```
function gfxmode {  
    set gfxpayload="${1}"  
    if [ "${1}" = "keep" ]; then  
        set vt_handoff=vt.handoff=7  
    else  
        set vt_handoff=  
    fi  
}  
if [ "${recordfail}" != 1 ]; then  
    if [ -e ${prefix}/gfxblacklist.txt ]; then  
        if hwmatch ${prefix}/gfxblacklist.txt 3; then  
            if [ ${match} = 0 ]; then  
                set linux_gfx_mode=keep  
            else  
                set linux_gfx_mode=text  
            fi  
        else  
            set linux_gfx_mode=text  
        fi  
    else  
        set linux_gfx_mode=keep  
    fi  
else  
    set linux_gfx_mode=text  
fi  
export linux_gfx_mode  
menuentry 'Linux Mint 17.2 Xfce 32-bit' --class ubuntu --class gnu-linux --class gnu --class os  
$menuentry_id_option 'gnulinux-simple-1375e597-5dd4-49d5-b38e-16875f8c44d0' {  
    recordfail  
    load_video  
    gfxmode $linux_gfx_mode
```

```

insmod gzio
insmod part_msdos
insmod ext2
set root='hd1,msdos1'
if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --
hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
else
    search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
fi
linux /boot/vmlinuz-3.16.0-38-generic root=UUID=1375e597-5dd4-49d5-b38e-
16875f8c44d0 ro quiet splash $vt_handoff
initrd /boot/initrd.img-3.16.0-38-generic
}
submenu 'Advanced options for Linux Mint 17.2 Xfce 32-bit' $menuentry_id_option 'gnulinux-
advanced-1375e597-5dd4-49d5-b38e-16875f8c44d0' {
    menuentry 'Linux Mint 17.2 Xfce 32-bit, with Linux 3.16.0-38-generic' --class ubuntu --class
gnu-linux --class gnu --class os $menuentry_id_option 'gnulinux-3.16.0-38-generic-advanced-
1375e597-5dd4-49d5-b38e-16875f8c44d0' {
        recordfail
        load_video
        gfxmode $linux_gfx_mode
        insmod gzio
        insmod part_msdos
        insmod ext2
        set root='hd1,msdos1'
        if [ x$feature_platform_search_hint = xy ]; then
            search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --
hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
        else
            search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
        fi
        echo 'Loading Linux 3.16.0-38-generic ...'
        linux /boot/vmlinuz-3.16.0-38-generic root=UUID=1375e597-5dd4-49d5-b38e-
16875f8c44d0 ro quiet splash $vt_handoff
        echo 'Loading initial ramdisk ...'
        initrd /boot/initrd.img-3.16.0-38-generic
    }
    menuentry 'Linux Mint 17.2 Xfce 32-bit, with Linux 3.16.0-38-generic (recovery mode)' --

```

```
class ubuntu --class gnu-linux --class gnu --class os $menuentry_id_option 'gnulinux-3.16.0-38-generic-recovery-1375e597-5dd4-49d5-b38e-16875f8c44d0' {
    recordfail
    load_video
    insmod gzio
    insmod part_msdos
    insmod ext2
    set root='hd1,msdos1'
    if [ x$feature_platform_search_hint = xy ]; then
        search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --
hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
    else
        search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
    fi
    echo 'Loading Linux 3.16.0-38-generic ...'
    linux /boot/vmlinuz-3.16.0-38-generic root=UUID=1375e597-5dd4-49d5-b38e-
16875f8c44d0 ro recovery nomodeset
    echo 'Loading initial ramdisk ...'
    initrd /boot/initrd.img-3.16.0-38-generic
}
}
```

```
### END /etc/grub.d/10_linux ###
```

```
### BEGIN /etc/grub.d/10_lupin ###
```

```
### END /etc/grub.d/10_lupin ###
```

```
### BEGIN /etc/grub.d/20_linux_xen ###
```

```
### END /etc/grub.d/20_linux_xen ###
```

```
### BEGIN /etc/grub.d/20_memtest86+ ###
```

```
menuentry 'Memory test (memtest86+)' {
```

```
    insmod part_msdos
```

```
    insmod ext2
```

```
    set root='hd1,msdos1'
```

```
    if [ x$feature_platform_search_hint = xy ]; then
```

```
        search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --
hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
```

```

else
  search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
fi
knetbsd /boot/memtest86+.elf
}
menuentry 'Memory test (memtest86+, serial console 115200)' {
  insmod part_msdos
  insmod ext2
  set root='hd1,msdos1'
  if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root --hint-bios=hd1,msdos1 --hint-efi=hd1,msdos1 --
hint-baremetal=ahci1,msdos1 1375e597-5dd4-49d5-b38e-16875f8c44d0
  else
    search --no-floppy --fs-uuid --set=root 1375e597-5dd4-49d5-b38e-16875f8c44d0
  fi
  linux16 /boot/memtest86+.bin console=ttyS0,115200n8
}
### END /etc/grub.d/20_memtest86+ ###

```

```

### BEGIN /etc/grub.d/30_os-prober ###

```

```

menuentry 'Microsoft Windows XP Professional (on /dev/sda1)' --class windows --class os
$menuentry_id_option 'osprober-chain-3A64FD6164FD2075' {
  insmod part_msdos
  insmod ntfs
  set root='hd0,msdos1'
  if [ x$feature_platform_search_hint = xy ]; then
    search --no-floppy --fs-uuid --set=root --hint-bios=hd0,msdos1 --hint-efi=hd0,msdos1 --
hint-baremetal=ahci0,msdos1 3A64FD6164FD2075
  else
    search --no-floppy --fs-uuid --set=root 3A64FD6164FD2075
  fi
  parttool ${root} hidden-
  drivemap -s (hd0) ${root}
  chainloader +1
}
set timeout_style=menu
if [ "${timeout}" = 0 ]; then
  set timeout=10
fi

```

```
### END /etc/grub.d/30_os-prober ###
```

```
### BEGIN /etc/grub.d/30_uefi-firmware ###
```

```
### END /etc/grub.d/30_uefi-firmware ###
```

```
### BEGIN /etc/grub.d/40_custom ###
```

```
# This file provides an easy way to add custom menu entries.  Simply type the  
# menu entries you want to add after this comment.  Be careful not to change  
# the 'exec tail' line above.
```

```
### END /etc/grub.d/40_custom ###
```

```
### BEGIN /etc/grub.d/41_custom ###
```

```
if [ -f ${config_directory}/custom.cfg ]; then  
    source ${config_directory}/custom.cfg  
elif [ -z "${config_directory}" -a -f $prefix/custom.cfg ]; then  
    source $prefix/custom.cfg;  
fi
```

```
### END /etc/grub.d/41_custom ###
```

```
-----  
===== sdb1/etc/fstab:  
=====
```

```
-----  
# /etc/fstab: static file system information.
```

```
#  
# Use 'blkid' to print the universally unique identifier for a  
# device; this may be used with UUID= as a more robust way to name devices  
# that works even if disks are added and removed. See fstab(5).
```

```
#  
# <file system> <mount point> <type> <options> <dump> <pass>
```

```
# / was on /dev/sdb1 during installation
```

```
UUID=1375e597-5dd4-49d5-b38e-16875f8c44d0 / ext4 errors=remount-ro 0 1
```

```
# swap was on /dev/sdb5 during installation
```

```
UUID=d332cc01-74ca-4247-ab91-ad843355714d none swap sw 0 0
```

```
/dev/fd0 /media/floppy0 auto rw,user,noauto,exec,utf8 0 0
```

```
-----  
===== sdb1: Location of files loaded by Grub: =====
```

GiB - GB

File

Fragment(s)

===== Unknown MBRs/Boot Sectors/etc:

=====

Unknown BootLoader on sdb2

```
00000000 1e 25 d1 3d 6a 93 d3 3d d5 c1 d4 3d 13 e1 d2 3d |.%.=j..=...=...=|
00000010 e6 76 ce 3d 93 c9 c7 3d bb b5 bf 3d 3e 42 b8 3d |.v.=...=...=>B.=|
00000020 88 bc b2 3d 03 e8 ae 3d d7 9e ad 3d e6 32 ae 3d |...=...=...=.2.=|
00000030 31 81 af 3d 04 ed b0 3d 5f a2 b2 3d 68 47 b5 3d |1..=...=_..=hG.=|
00000040 f3 00 b8 3d 0b 82 bb 3d 66 e8 bf 3d 02 53 c4 3d |...=...=f..=S.=|
00000050 3e 9e c7 3d 09 0e c9 3d cb 14 c8 3d b7 97 c5 3d |>..=...=...=...=|
00000060 2a 6b c2 3d 95 aa bf 3d 15 56 bd 3d a4 95 82 3e |*k.=...=V.=...>|
00000070 5a dd b6 3d 3e 0e 78 3e 0d 78 af 3d b4 27 69 3e |Z..=>.x>.x.=.'i>|
00000080 24 24 a9 3d 93 ef 5c 3e 26 05 a4 3d 02 42 53 3e |$$.=..>&..=BS>|
00000090 b5 7f 9f 3d 2d 76 47 3e d7 78 9a 3d f7 3b 38 3e |...=-vG>.x.=.;8>|
000000a0 b4 58 94 3d b4 52 24 3e f9 92 8c 3d 4a 6d f7 3d |.X.=R$>...=Jm.=|
000000b0 f4 76 84 3d 5c 65 ef 3d 9e b2 83 3d b6 90 f5 3d |.v.=\e.=...=...=|
000000c0 d5 28 8b 3d 10 71 1f 3e 9b 98 93 3d e3 e6 37 3e |.(.=q.>...=.7>|
000000d0 65 d8 99 3d ad c1 43 3e fc 5d 9d 3d 81 f3 4c 3e |e..=.C>.]..L>|
000000e0 30 5c a1 3d 6c de 5a 3e a0 a5 aa 3d f0 00 72 3e |0\.=I.Z>...=.r>|
000000f0 24 cd b6 3d c7 e5 84 3e fd 5e c1 3d 50 38 8e 3e |$.=...>.^.=P8.>|
00000100 49 be cc 3d 4e d4 97 3e c2 4b d7 3d 11 2d a0 3e |I..=N..>.K.=.->|
00000110 40 bc de 3d 09 15 a3 3e c5 0c de 3d 32 65 9f 3e |@..=...>...=2e.>|
00000120 76 e3 d6 3d 2b b9 98 3e c1 1e d0 3d b3 6d 94 3e |v..=+..>...=.m.>|
00000130 8b 25 cd 3d e3 df 93 3e da 3c ce 3d 95 8d 95 3e |.%.=...>.<.=...>|
00000140 42 88 d0 3d 1f 91 97 3e db 9a d2 3d c2 fc 98 3e |B..=...>...=...>|
00000150 c7 8a d4 3d ef 2b 9b 3e d1 23 d7 3d 7d 87 9c 3e |...=+.>#.=}..>|
00000160 e1 f1 d6 3d 38 d4 9a 3e f9 dd d3 3d 38 08 98 3e |...=8..>...=8..>|
00000170 ce 0b d1 3d 07 73 96 3e 0e 87 d0 3d 1f 24 97 3e |...=.s.>...=.$.>|
00000180 cd 38 d2 3d 05 ee 98 3e e1 64 99 3e 94 e3 d3 3d |.8.=...>.d.>...=|
00000190 42 fd 98 3e 1b ae d2 3d 93 6d 97 3e 53 4a d0 3d |B..>...=.m.>SJ.=|
000001a0 d9 79 95 3e 0a 4c ce 3d 42 12 94 3e ae 55 cd 3d |.y.>.L.=B..>.U.=|
000001b0 4a aa 93 3e 1b 0b cd 3d 16 50 93 3e 85 7c 00 fe |J..>...=.P.>|.l|
000001c0 ff ff 82 fe ff ff 02 00 00 00 00 58 ee 00 00 00 |.....X....|
000001d0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 |.....|
```

