
Subject: Re: Error 13: Invalid executable or unsupported format ???

Posted by [arnaudsj](#) on Fri, 08 Dec 2006 17:17:43 GMT

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I think you are on to something:

```
# file /boot/vmlinuz-2.6.9-023stab032.1-smp
/boot/vmlinuz-2.6.9-023stab032.1-smp: ELF 64-bit LSB executable, AMD x86-64, version 1
(SYSV), statically linked, not stripped
```

```
# file /boot/vmlinuz-2.6.9-42.0.3.plus.c4smp
/boot/vmlinuz-2.6.9-42.0.3.plus.c4smp: x86 boot sector
```

Any other of my kernels listed in grub.conf below are showing this property (x86 boot sector)

```
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
#         all kernel and initrd paths are relative to /boot/, eg.
#         root (hd0,0)
#         kernel /vmlinuz-version ro root=/dev/Linux/CentOS
#         initrd /initrd-version.img
#boot=/dev/sda
default=3
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
serial --unit=0 --speed=9600
terminal --timeout=2 serial console

title CentOS (2.6.9-023stab032.1-smp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-023stab032.1-smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
    nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-023stab032.1-smp.img

title CentOS (2.6.9-42.0.3.plus.c4)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.3.plus.c4 ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
    console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.3.plus.c4.img

title CentOS (2.6.9-42.0.3.EL)
```

```

    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.3.EL ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.3.EL.img

title CentOS (2.6.9-42.0.3.plus.c4smp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.3.plus.c4smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.3.plus.c4smp.img

title CentOS (2.6.9-42.0.2.plus.c4)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.2.plus.c4 ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.2.plus.c4.img

title CentOS (2.6.9-42.0.2.plus.c4smp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.2.plus.c4smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.2.plus.c4smp.img

title CentOS (2.6.9-42.0.2.ELsmp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.2.ELsmp ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.2.ELsmp.img

title CentOS (2.6.9-42.0.2.EL)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.2.EL ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.2.EL.img

title CentOS (2.6.9-34.107.plus.c4smp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-34.107.plus.c4smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-34.107.plus.c4smp.img

title Gentoo Linux (2.6.14-r5 lvm2)
    root (hd0,0)
    kernel /kernel-genkernel-x86_64-2.6.14-gentoo-r5 udev dolvm2 root=/dev/ram0
real_root=/dev/Linux/Gentoo init=/linuxrc lvmraid=/dev/md0
video=vesafb:ywrap,mtrr,1024x768-16@85 splash=silent,theme:emergence
    initrd /initramfs-genkernel-x86_64-2.6.14-gentoo-r5

```

```
title Windows XP (32bit)
    rootnoverify (hd0,2)
    chainloader +1
```

Also for some reason menu.lst is showing some quite different things... Not sure what happened (I wonder if it because I had installed Ubuntu a few months ago and it overwrote the grub config from Centos...

```
# cat /boot/grub/menu.lst
```

```
# menu.lst - See: grub(8), info grub, update-grub(8)
#      grub-install(8), grub-floppy(8),
#      grub-md5-crypt, /usr/share/doc/grub
#      and /usr/share/doc/grub-doc/.
```

```
## default num
# Set the default entry to the entry number NUM. Numbering starts from 0, and
# the entry number 0 is the default if the command is not used.
#
# You can specify 'saved' instead of a number. In this case, the default entry
# is the entry saved with the command 'savedefault'.
# WARNING: If you are using dmraid do not change this entry to 'saved' or your
# array will desync and will not let you boot your system.
default      0
```

```
## timeout sec
# Set a timeout, in SEC seconds, before automatically booting the default entry
# (normally the first entry defined).
timeout      10
```

```
## hiddenmenu
# Hides the menu by default (press ESC to see the menu)
#hiddenmenu
```

```
# Pretty colours
#color cyan/blue white/blue
```

```
## password [--md5] passwd
# If used in the first section of a menu file, disable all interactive editing
# control (menu entry editor and command-line) and entries protected by the
# command 'lock'
# e.g. password topsecret
#      password --md5 $1$gLhU0/$aW78kHK1QfV3P2b2znUoe/
# password topsecret
```

```
#
# examples
```

```

#
# title      Windows 95/98/NT/2000
# root      (hd0,0)
# makeactive
# chainloader +1
#
# title      Linux
# root      (hd0,1)
# kernel    /vmlinuz root=/dev/hda2 ro
#

#
# Put static boot stanzas before and/or after AUTOMAGIC KERNEL LIST

#### BEGIN AUTOMAGIC KERNELS LIST
## lines between the AUTOMAGIC KERNELS LIST markers will be modified
## by the debian update-grub script except for the default options below

## DO NOT UNCOMMENT THEM, Just edit them to your needs

## ## Start Default Options ##
## default kernel options
## default kernel options for automagic boot options
## If you want special options for specific kernels use kopt_x_y_z
## where x.y.z is kernel version. Minor versions can be omitted.
## e.g. kopt=root=/dev/hda1 ro
##    kopt_2_6_8=root=/dev/hdc1 ro
##    kopt_2_6_8_2_686=root=/dev/hdc2 ro
# kopt=root=/dev/sdb3 ro

## default grub root device
## e.g. groot=(hd0,0)
# groot=(hd0,0)

## should update-grub create alternative automagic boot options
## e.g. alternative=true
##    alternative=false
# alternative=true

## should update-grub lock alternative automagic boot options
## e.g. lockalternative=true
##    lockalternative=false
# lockalternative=false

## additional options to use with the default boot option, but not with the
## alternatives
## e.g. defoptions=vga=791 resume=/dev/hda5
# defoptions=quiet splash

```

```

## altoption boot targets option
## multiple altoptions lines are allowed
## e.g. altoptions=(extra menu suffix) extra boot options
##   altoptions=(recovery mode) single
# altoptions=(recovery mode) single

## controls how many kernels should be put into the menu.lst
## only counts the first occurrence of a kernel, not the
## alternative kernel options
## e.g. howmany=all
##   howmany=7
# howmany=all

## should update-grub create memtest86 boot option
## e.g. memtest86=true
##   memtest86=false
# memtest86=true

## should update-grub adjust the value of the default booted system
## can be true or false
# updatedefaultentry=false

## ## End Default Options ##
serial --unit=0 --speed=9600
terminal --timeout=2 serial console

splashimage=(hd0,0)/grub/splash.xpm.gz

title CentOS (2.6.9-42.0.3.plus.c4smp)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.3.plus.c4smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
    nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-42.0.3.plus.c4smp.img
    savedefault
    boot

title OpenVZ (2.6.9 x64 SMP)
    root (hd0,0)
    kernel /vmlinuz-2.6.9-023stab032.1-smp ro root=/dev/Linux/CentOS clock=pmtmr noapic
    nolapic console=tty1 console=ttyS1,9600
    initrd /initrd-2.6.9-023stab032.1-smp.img
    boot

title CentOS new, kernel 2.6.9-42.0.2.ELsmp
    root (hd0,0)
    kernel /vmlinuz-2.6.9-42.0.2.ELsmp ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic

```

```
console=tty1 console=ttyS1,9600
initrd /initrd-2.6.9-42.0.2.ELsmp.img
boot
```

```
title CentOS (2.6.9-34.107.plus.c4smp)
root (hd0,0)
kernel /vmlinuz-2.6.9-34.107.plus.c4smp ro root=/dev/Linux/CentOS clock=pmtmr noapic nolapic
console=tty1 console=ttyS1,9600
initrd /initrd-2.6.9-34.107.plus.c4smp.img
boot
```

```
title      Ubuntu, kernel 2.6.15-26-amd64-generic
root      (hd0,0)
kernel    /vmlinuz-2.6.15-26-amd64-generic root=/dev/sdb3 ro quiet splash
initrd    /initrd.img-2.6.15-26-amd64-generic
boot
```

```
title      Ubuntu, kernel 2.6.15-26-amd64-generic (recovery mode)
root      (hd0,0)
kernel    /vmlinuz-2.6.15-26-amd64-generic root=/dev/sdb3 ro single
initrd    /initrd.img-2.6.15-26-amd64-generic
boot
```

```
title      CentOS, kernel 2.6.9-34.107.plus.c4smp
root      (hd0,0)
kernel    /vmlinuz-2.6.9-34.107.plus.c4smp root=/dev/sdb3 ro quiet splash
boot
```

```
title      CentOS, kernel 2.6.9-34.107.plus.c4smp (recovery mode)
root      (hd0,0)
kernel    /vmlinuz-2.6.9-34.107.plus.c4smp root=/dev/sdb3 ro single
boot
```

```
title      CentOS, kernel 2.6.9-34.ELsmp
root      (hd0,0)
kernel    /vmlinuz-2.6.9-34.ELsmp root=/dev/sdb3 ro quiet splash
boot
```

```
title      CentOS, kernel 2.6.9-34.ELsmp (recovery mode)
root      (hd0,0)
kernel    /vmlinuz-2.6.9-34.ELsmp root=/dev/sdb3 ro single
boot
```

```
title      CentOS, kernel 2.6.9-34.EL
root      (hd0,0)
kernel    /vmlinuz-2.6.9-34.EL root=/dev/sdb3 ro quiet splash
```

boot

title CentOS, kernel 2.6.9-34.EL (recovery mode)
root (hd0,0)
kernel /vmlinuz-2.6.9-34.EL root=/dev/sdb3 ro single
boot

title Ubuntu, memtest86+
root (hd0,0)
kernel /memtest86+.bin
boot

END DEBIAN AUTOMAGIC KERNELS LIST

This is a divider, added to separate the menu items below from the Debian
ones.

title Other operating systems:
root

This entry automatically added by the Debian installer for a non-linux OS
on /dev/sda3

title Windows NT/2000/XP (loader)
root (hd0,2)
savedefault
makeactive
chainloader +1
