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## Correção Linux Educacional versão 2.0

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O Linux Educacional tem um bug com uso de discos IDE, bug este que será corrigido o mais breve possível.



Ao terminar a instalação deverá surgir uma tela como esta abaixo, ela ficará congelada por alguns minutos, isto porque o LE 2.0 esta procurando por disco SATA, sendo que ele não existe.

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Depois da tela ter ficada congelada por um tempo irá surgir esta console, poderíamos trabalhar neste console, mas seria um pouco complicado, então vamos fazer de uma forma um pouco mais simples.

```
Loading, please wait...
      Check root= bootarg cat /proc/cmdline
      or missing modules, devices: cat /proc/modules ls /dev
ALERT! /dev/hda2 does not exist. Dropping to a shell!

BusyBox v1.1.3 (Debian 1:1.1.3-4) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

/bin/sh: can't access tty; job control turned off
(initramfs) ls
bin      dev      init      modules   root      scripts   tmp      var
conf    etc      lib      proc      sbin      sys      usr
(initramfs) fdisk -l
/bin/sh: fdisk: not found
(initramfs) reboot_
```

Depois de surgir o prompt com este nome (initramfs), digite reboot e vamos reiniciar o computador.

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## GRUB Loading stage1.5.

```
GRUB loading, please wait...
Press 'ESC' to enter the menu... 1
```

Assim que o computador for reiniciado irá surgir esta tela, assim que ela surgir pressione a tecla ESC imediatamente pois por padrão esta tela fica disponível só 2 segundos, nós vamos alterar este tempo e a exibição do menu que esta desabilitado.

```
*****
```

```
GNU GRUB version 0.97 (638K lower / 260032K upper memory)
```

```
Linux Educacional 2.0 - Debian GNU/Linux, kernel 2.6.22-14-generic
LinuxEducacional 2.0 - Debian GNU/Linux, kernel 2.6.22-14-generic (s)
Other operating systems:
Microsoft Windows XP Professional
```

```
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.
```

Assim que surgir esta tela selecione a 1<sup>a</sup> linha com as teclas de navegação para baixo, depois pressione a tecla e, vamos editar o GRUB.

```
*****
```

```
GNU GRUB version 0.97 (638K lower / 260032K upper memory)
```

```
root (hd0,1)
kernel /boot/vmlinuz-2.6.22-14-generic root=/dev/hda2 ro quiet splash
initrd /boot/initrd.img-2.6.22-14-generic
savedefault
```

```
Use the ↑ and ↓ keys to select which entry is highlighted.
Press 'b' to boot, 'e' to edit the selected command in the
boot sequence, 'c' for a command-line, 'o' to open a new line
after ('O' for before) the selected line, 'd' to remove the
selected line, or escape to go back to the main menu.
```

Assim que surgir esta tela selecione a 2<sup>a</sup> linha, pressione a tecla e, vamos editar provisoriamente o GRUB para que carregue o disco certo.

```
*****
```

Irá surgir uma tela com o cursor posicionado no final da linha, com a tecla de navegação para esquerda posicione o cursor sobre a letra **h** da palavra **hda2**.

```
[ Minimal BASH-like line editing is supported. For
the first word, TAB lists possible command
completions. Anywhere else TAB lists the possible
completions of a device/filename. ESC at any time
exits. ]
```

grub edit> kernel /boot/vmlinuz-2.6.22-14-generic root=/dev/hda2 ro quiet splash

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Troque a letra **h** por **s**. O texto **/dev/hda2** deverá ficar desta forma **/dev/sda2**, depois pressione a tecla **enter**.

```
[ Minimal BASH-like line editing is supported. For
the first word, TAB lists possible command
completions. Anywhere else TAB lists the possible
completions of a device/filename. ESC at any time
exits. ]
```

grub edit> kernel /boot/vmlinuz-2.6.22-14-generic root=/dev/sda2 ro quiet splash

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```
GNU GRUB version 0.97 (638K lower / 260032K upper memory)
```

```
root (hd0,1)
kernel /boot/vmlinuz-2.6.22-14-generic root=/dev/sda2 ro quiet splash
initrd /boot/initrd.img-2.6.22-14-generic
savedefault
```

Use the **↑** and **↓** keys to select which entry is highlighted.  
Press '**b**' to boot, '**e**' to edit the selected command in the  
boot sequence, '**c**' for a command-line, '**o**' to open a new line  
after ('**O**' for before) the selected line, '**d**' to remove the  
selected line, or escape to go back to the main menu.

Ele irá retornar para a tela anterior com a alteração do disco, agora pressione a tecla **b** para que o GRUB faça o boot.

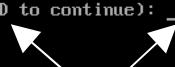
\*\*\*\*\*

```

loading device mapper support.
* Checking file systems...
fsck 1.40-WIP (14-Nov-2006)
fsck.ext3: No such file or directory while trying to open /dev/hda6
/dev/hda6:
The superblock could not be read or does not describe a correct ext2
filesystem. If the device is valid and it really contains an ext2
filesystem (and not swap or ufs or something else), then the superblock
is corrupt, and you might try running e2fsck with an alternate superblock:
  e2fsck -b 8193 <device>

fsck died with exit status 8
[fail]
* File system check failed.
A log is being saved in /var/log/fsck/checkfs if that location is writable.
Please repair the file system manually.
* A maintenance shell will now be started.
CONTROL-D will terminate this shell and resume system boot.
Give root password for maintenance
(or type Control-D to continue):

```



Ele irá começar a inicialização até surgir um erro, este erro é que o LE 2.0 não localiza as partições IDE, quando surgir a mensagem Control-D to continue não tecle control-d, digite a senha do administrador **qwe123** para liberar o console de trabalho.

```

*****  

fsck 1.40-WIP (14-Nov-2006)
fsck.ext3: No such file or directory while trying to open /dev/hda6
/dev/hda6:
The superblock could not be read or does not describe a correct ext2
filesystem. If the device is valid and it really contains an ext2
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is corrupt, and you might try running e2fsck with an alternate superblock:
  e2fsck -b 8193 <device>

fsck died with exit status 8
[fail]
* File system check failed.
A log is being saved in /var/log/fsck/checkfs if that location is writable.
Please repair the file system manually.
* A maintenance shell will now be started.
CONTROL-D will terminate this shell and resume system boot.
Give root password for maintenance
(or type Control-D to continue):
educacional:# vi
vi      view      viewres   vim      vim.tiny  vimdiff
educacional:~# vi /etc/fstab

```



Agora vamos editar dois arquivos para que tudo funcione normalmente, digite vim /etc/fstab e tecle **enter**.

```

*****  

# /etc/fstab: static file system information.
#
# <file system> <mount point> <type> <options> <dump> <pass>
proc          /proc        proc    defaults    0      0
/dev/hda2     /           ext3    defaults,errors=remount-ro 0      1
/dev/hda6     /home       ext3    defaults    0      2
/dev/hda5     none        swap    sw        0      0
/dev/hdc      /media/cdrom0 udf,iso9660 user,noauto  0      0
/dev/fd0      /media/floppy0 auto   rw,user,noauto 0      0

```



Altere as linhas que fazem referencia ao **/**, ao **/home** e o **swap**, ou seja troque a letra **h** pela letra **s** das seguintes linhas **/dev/hda2** para **/dev/sda2**, **/dev/hda6** para **/dev/sda6** e **/dev/hda5** para **/dev/sda5**, não altere a linha referente ao CD-ROM

```

*****  

# /etc/fstab: static file system information.
#
# <file system> <mount point> <type> <options> <dump> <pass>
proc          /proc        proc    defaults    0      0
/dev/sda2     /           ext3    defaults,errors=remount-ro 0      1
/dev/sda6     /home       ext3    defaults    0      2
/dev/sda5     none        swap    sw        0      0
/dev/hdc      /media/cdrom0 udf,iso9660 user,noauto  0      0
/dev/fd0      /media/floppy0 auto   rw,user,noauto 0      0

```



As linhas que foram alteradas devem ficar como ilustrado na figura.



Agora vamos salvar o arquivo, tecle **ESC** e depois as teclas :**w q**.

\*\*\*\*\*

```
educacional:~# vim /boot/grub/menu.lst
```

Agora vamos alterar o GRUB em definitivo, digite vim /boot/grub/menu.lst e tecle **enter**.

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```
# 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
# Menu is showed only if user press ESC
hiddenmenu

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

Vamos alterar as linhas referente ao tempo de exposição de menu, a linha timeout de **2** segundos para **10** segundos e comentar a linha hiddenmenu com a tecla **#**, para que o menu seja exibido.

\*\*\*\*\*

```
## 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

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

## Hiddenmenu
# Menu is showed only if user press ESC
#hiddenmenu

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

O arquivo deverá ficar desta forma, agora salve teclando **ESC** e digitando :**w q** depois **enter**.

```
## 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/hda2 ro

## default grub root device
## e.g. groot=(hd0,0)
# groot=(hd0,1)

## should update-grub create alternative automagic boot options
:wq
```

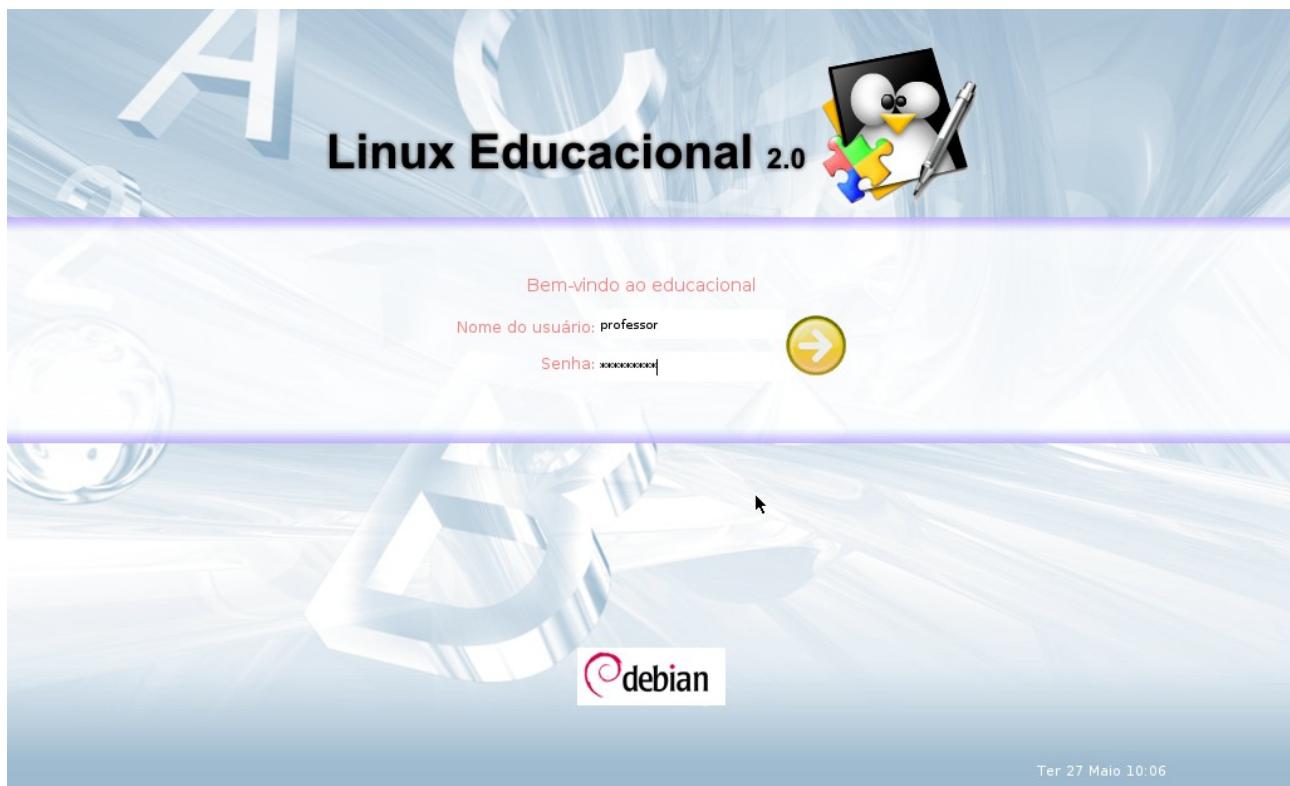
\*\*\*\*\*

```
* groot=(hd0,1)
## should update-grub create alternative automagic boot options
"/boot/grub/menu.lst" 149L, 4321C written
educacional:~# reboot
```

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Agora está pronto, reinicie o computador digitando **reboot** e aguarde, os dois sistemas estarão disponíveis para serem utilizados.

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