JMB360/1/2/3/6

PCI Express to SATA II/PATA Host Controller

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Linux Installation for IDE Compatible

Rev. 0.5

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Revision History

Version	Date	Revision Description
0.1	2006/08/25	Initial Release
0.2	2006/09/08	2nd Release
0.3	2006/09/13	3rd Release
0.4	2006/09/14	4th Release
0.5	2006/09/29	5th Release

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1. Installation Procedure

If you would like to boot from Linux, you need to update JMicron's BIOS to version 1.06.53 above
If JMicron's BIOS on your MB is not this version, please connect your MB manufacturer to update.

1.1 FeeBSD 6.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron, and you can follow the indication by FreeBSD and install/reboot successfully

1.2 OpenBSD 3.7

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron, and you can follow the indication by OpenBSD and install/reboot successfully

1.3 NetBSD 3.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron, and you can follow the indication by NetBSD and install/reboot successfully

1.4 DragonFlyBSD 1.1

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron, and you can follow the indication by DragonFlyBSD and install/reboot successfully

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1.5 Redhat 8.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in "linux all-generic-ide=1" at the prompt" boot:"(ie. boot: linux all-generic-ide=1), and then you can follow the indication by Redhat8 and install successfully. When finish to install and reboot, boot menu displays, you need to add "all-generic-ide=1" following the "kernel" parameter. For below Example:

root (hd0,0)
kernel /vmlinuz-x.x.x-xx.ELsmp ro root=LABEL=/ rhgb quiet **all-generic-ide=1**
initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can't detect any device on SATA Port 1

1.6 RHEL 4.3

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in "linux all-generic-ide=1" at the prompt" boot:"(ie. boot:

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linux all-generic-ide=1), and then you can follow the indication by RHEL4.3 and install successfully. When finish to install and reboot, boot menu displays, you need to add "all-generic-ide=1" following the kernel parameter. For below Example:

root (hd0,0)
kernel /vmlinuz-x.x.x-xx.ELsmp ro root=LABEL=/ rhgb quiet **all-generic-ide=1**
initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can't detect any device on SATA Port 1

1.7 Centos 4.3

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in "linux all-generic-ide=1" at the prompt" boot:"(ie. boot: linux all-generic-ide=1), and then you can follow the indication by Centos4.3 and install successfully. When finish to install and reboot, boot menu displays, you need to add "all-generic-ide=1" following the kernel parameter. For below Example:

root (hd0,0)
kernel /vmlinuz-x.x.x-xx. ro root=LABEL=/ rhgb quiet **all-generic-ide=1**
initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can't detect any device on SATA Port 1

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1.8 Mandriva 2007 mona

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to add "all-generic-ide" after "initrd=alt0/all.rdz" on " Boot Options ", and then you can follow the indication by Mandriva 2007 mona and install successfully. When finish to install and reboot, boot menu displays, you need to add "all-generic-ide" following the kernel parameter. For below Example:

root (hd0,0)
kernel /vmlinuz-x.x.x-xx. ro root=LABEL=/ rhgb quiet **all-generic-ide**
initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can't detect any device on SATA Port 1

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1.9 Gentoo 2006.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in “gentoo all-generic-ide=1” at the prompt" boot:"(ie. boot: gentoo all-generic-ide=1), and then you can use Gentoo2006.0

Note: It can’t detect any device on SATA Port 1

1.10 Slackware 10.2

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in “test26.s all-generic-ide=1” at the prompt" boot:"(ie. boot: test26.s all-generic-ide=1), and then you can follow the indication by Slackware 10.2 to install. You must key-in “all-generic-ide=1” at the prompt windows: ”OPTIONAL LILO append=”kernel perameters” LINE ”. And then reboot from install-disc, and chroot to System disk. You need to edit the file:”/etc/lilo.conf” and add the string:”Linear”, “lba32” and modify to “boot=/dev/hdx” , and then re-install lilo boot loader by executing :”lilo”. When you finish all modifications, you can reboot and run distrubtion successfully.

Note: It can’t detect any device on SATA Port 1

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1.11 Redflag 5.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you need to key in “linux all-generic-ide=1” at the prompt" boot:"(ie. boot: linux all-generic-ide=1), and then you can follow the indication by Redflag 5 and install successfully. When finish to install and reboot, boot menu displays, you need to add “all-generic-ide=1” following the kernel parameter. For below Example:

root (hd0,0)
kernel /vmlinuz-x.x.x-xx.ELsmp ro root=LABEL=/ rhgb quiet **all-generic-ide=1**
initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can’t detect any device on SATA Port 1

1.12 Netware 6.5

If JMB36X switches to Single-IDE mode on BIOS, you can connect HDDs in JMB36X, but put the install-disc to CD-ROM on board, and then you can follow the indication by Netware and install/reboot successfully.

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1.13 Solaris 10.0

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you can follow the indication by Solaris and install/reboot successfully

Note: It can't detect any device on SATA Port 1

1.14 SCO OpenServer 6.0.0

When you want to install SCO OpenServer 6.0.0, you need to download SCO OpenServer 6.0.0 IDE HBA Driver 7.1.4d. If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron. And then you need to insert IDE-driver floppy when loading HBA driver. Be care that because SCO ide driver only support Master port, so you just only connect HDD or CD-ROM to PATA Master port or SATA Port 0. And then you can be patient to follow the indication by SCO OpenServer and install/reboot successfully.

ps: (1) Ide driver website is
http://www.sco.com/support/update/download/product.php?pfid=12&prid=20
(2) Only plug PATA Master and SATA Port 0 on MB to install

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1.15 SCO UnixWare 7.1.4

When you want to install SCO UnixWare 7.1.4, you need to download SCO UnixWare 7.1.4 IDE HBA Driver 7.1.4d. If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron. And then you need to insert IDE-driver floppy when loading HBA driver. Be care that because SCO ide driver only support Master port, so you just only connect HDD or CD-ROM to PATA Master port or SATA Port 0. And then you can be patient to follow the indication by SCO UnixWare and install/reboot successfully.

ps: (1) Ide driver website is
http://www.sco.com/support/update/download/product.php?pfid=1&prid=6
(2) Only plug PATA Master and SATA Port 0 on MB to install

1.16 FreeNAS 0.64

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron , and you can follow the indication by FreeNAS and install/reboot successfully

1.17 OpenFiler 2.0-beta2

If JMB36X switches to Single-IDE mode on BIOS, you put the install-disc to CD-ROM on JMicron

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, and you need to key in “linux all-generic-ide=1” at the prompt" boot:"(ie. boot: linux all-generic-ide=1), and then you can follow the indication by OpenFilter 2.0-beta2 and install successfully. When finish to install and reboot, boot menu displays, you need to add “all-generic-ide=1” following the kernel parameter. For below Example:

root (hd0,0)

kernel /vmlinuz-x.x.x-xx.ELsmp ro root=LABEL=/ rhgb quiet **all-generic-ide=1**

initrd /initrd-x.x.x-xx.ELsmp.img

Note: It can’t detect any device on SATA Port 1

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2. RHEL4.3 Installation Example

Installation Platform Configuration:

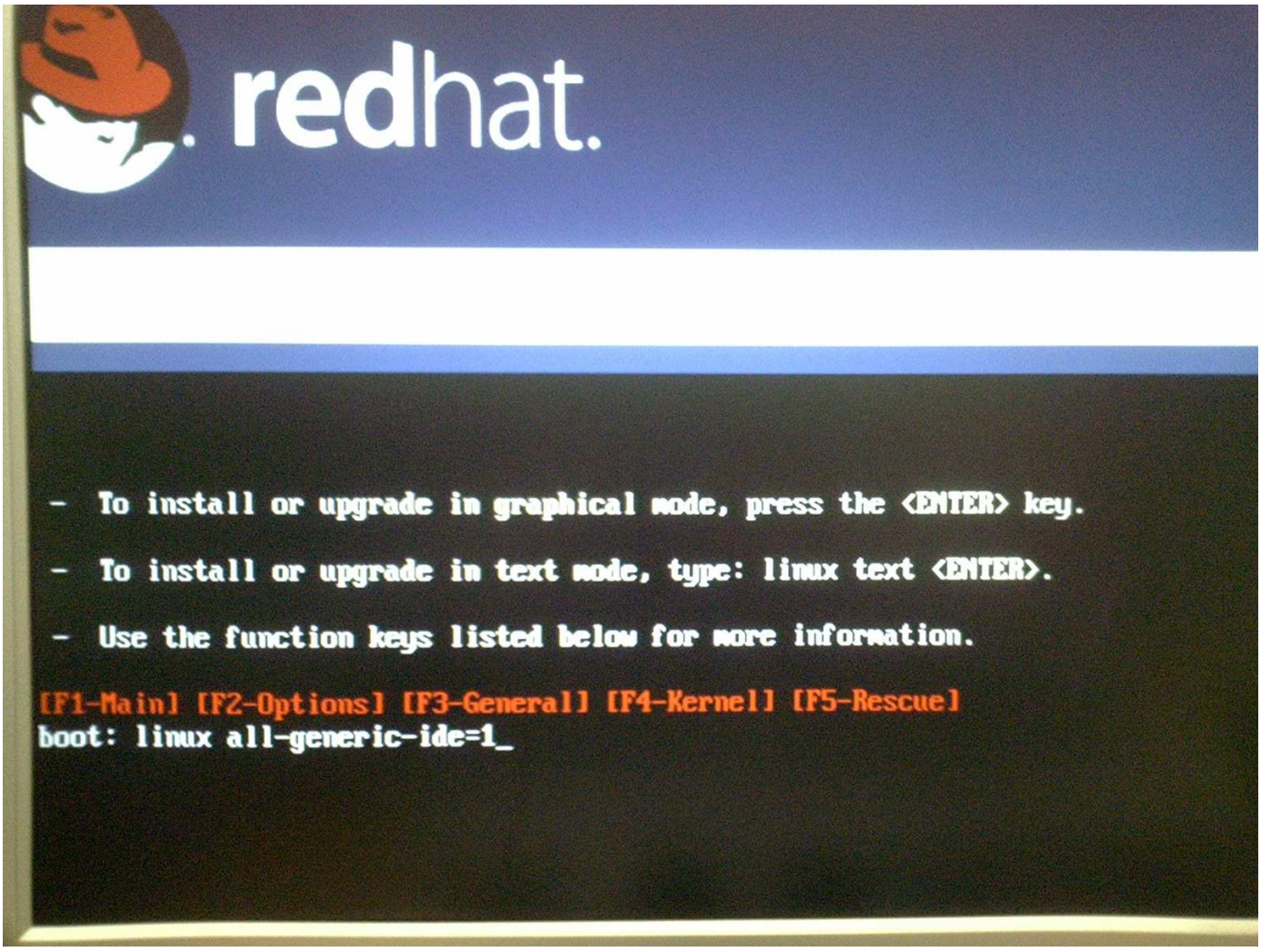
MB:AsRock 939Dual-VSTA with PCIe DisplayCard

BIOS: JMB363 with IDE mode

HDD: SATA WDC800JD(Port 0)、SATA HDT722516DLA380(Port 1)

PATA-M PATA-M NEC-DVD ROM、PATA-S WD800JB

(1) Boot from install-disc on PATA-M DVD-ROM and keyin “linux all-generic-ide=1” at the prompt" boot:"



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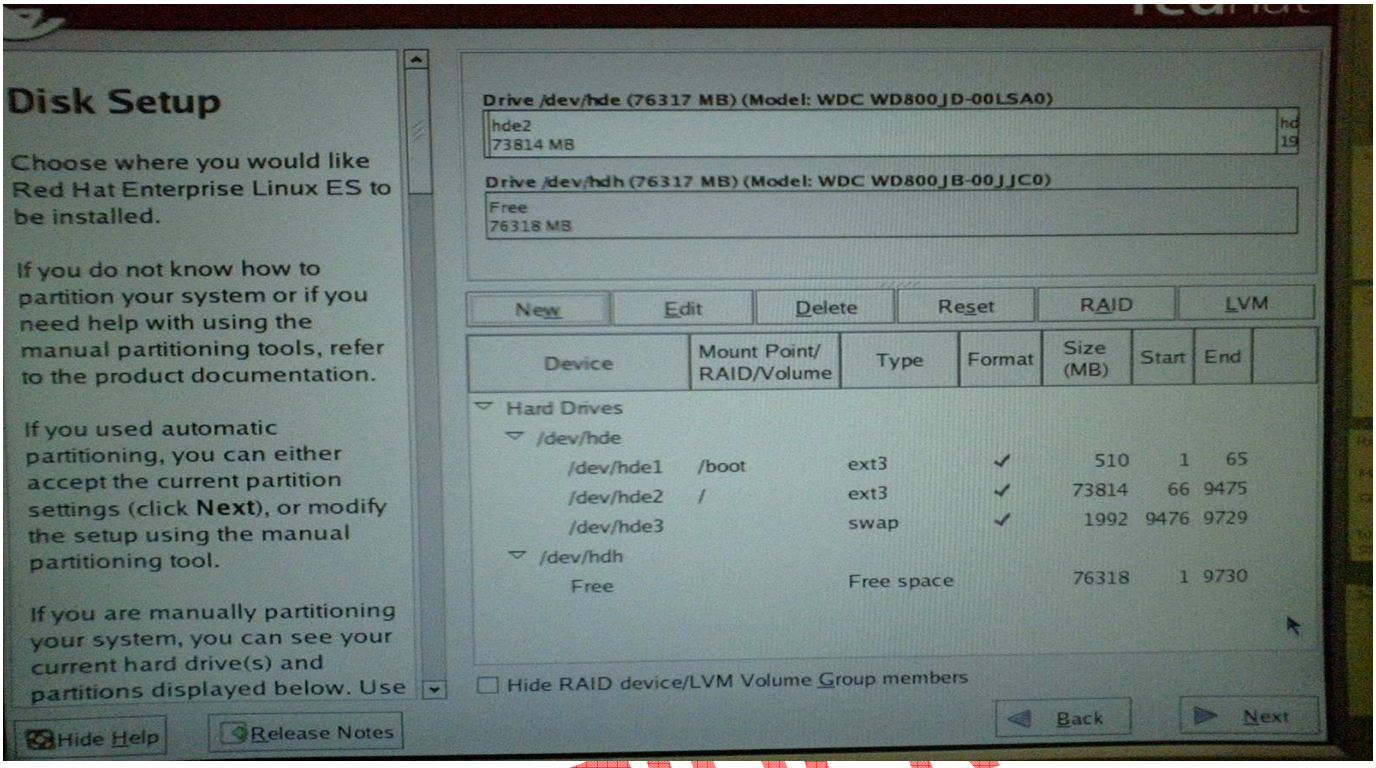
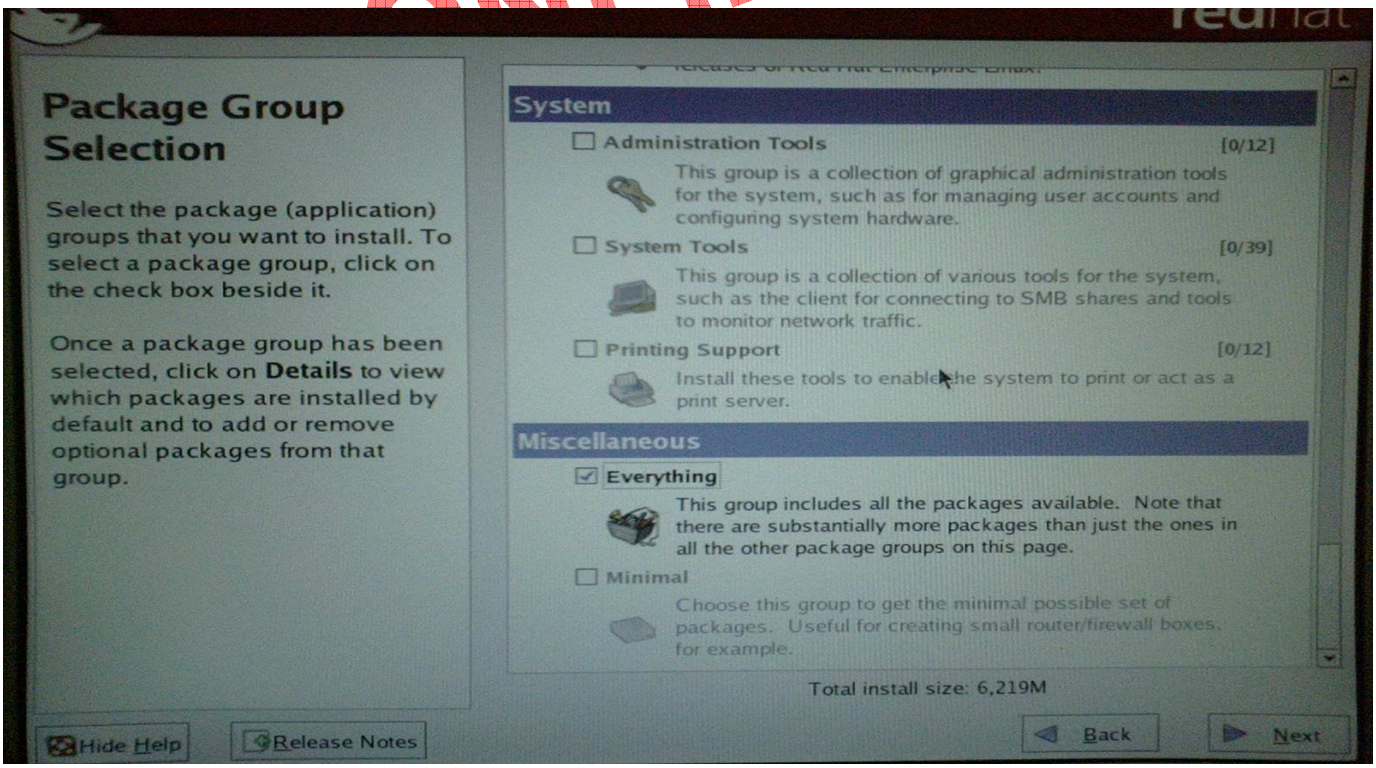
(2) When partitioning, you just only find 2 HDDs, not including SATA Port 1



(3) Selecting the software packages you want to install



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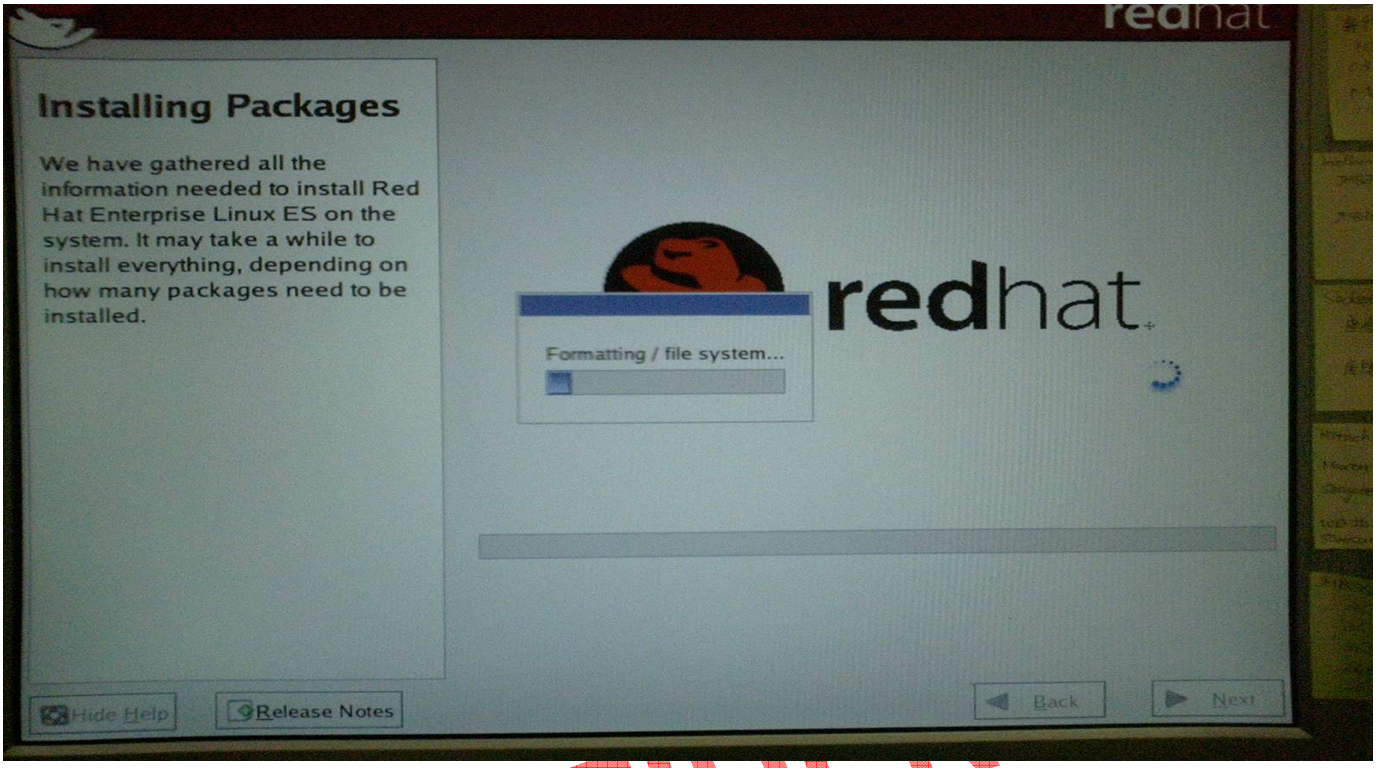
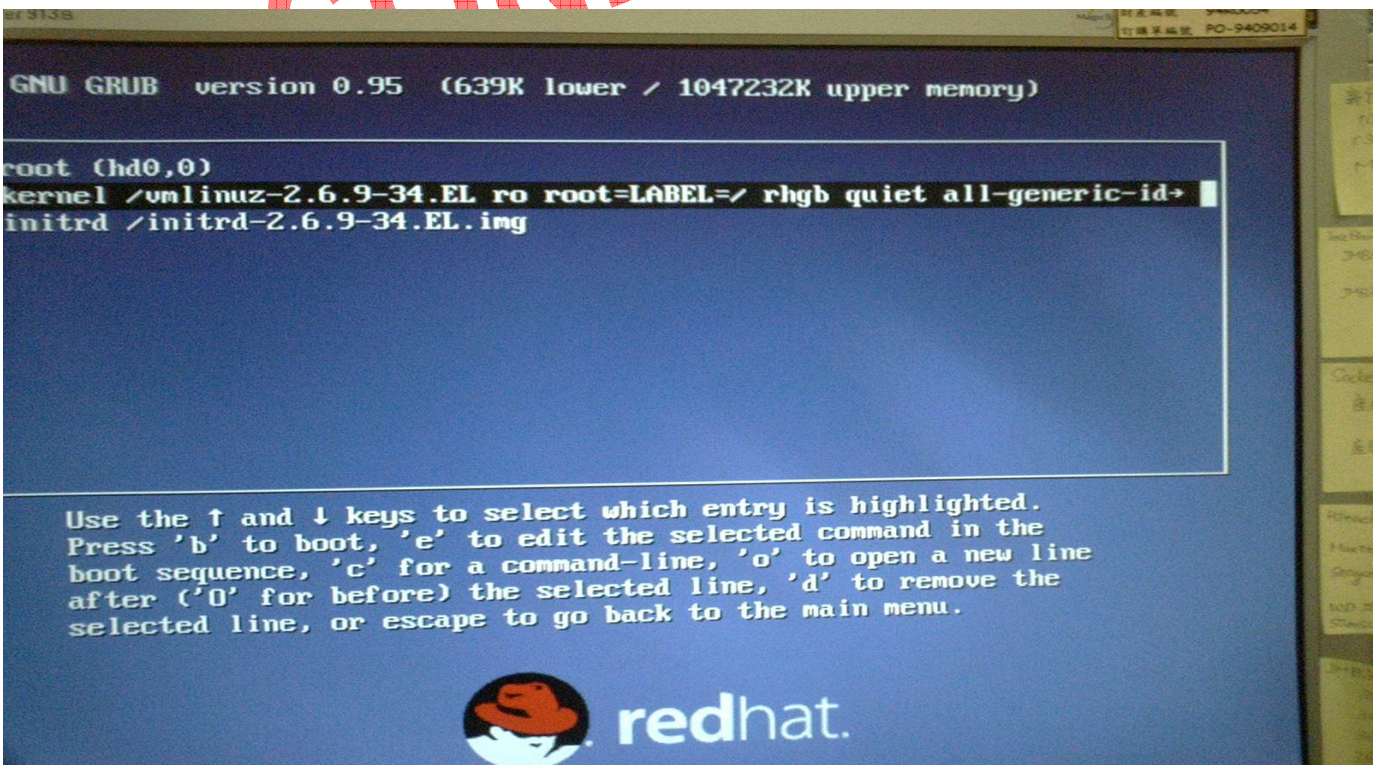
(4) When you finish all setting, the installation processes begin



(5) When finishing installation and reboot, boot menu displays, you need to add "all-generic-ide=1" following the kernel parameter.



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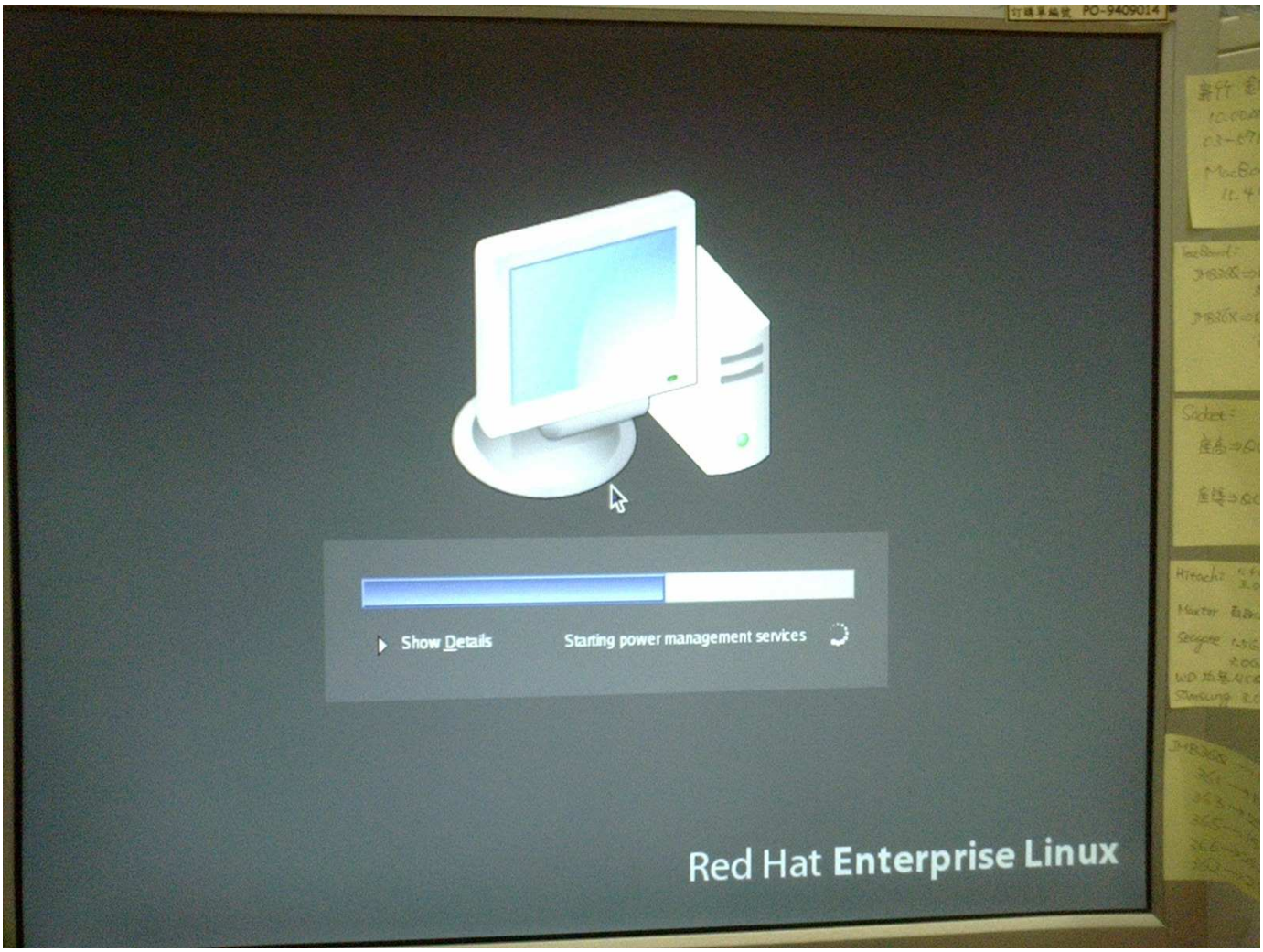
(6) When booting at this setting, you can login RHEL 4.3 and then you can update your kernel for the latest version which supported JMB36X



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