

# FreeBSD Installation Guide

( )



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% , , / , 가 .

FreeBSD [www.freebsd.org](http://www.freebsd.org) X86  
 , Yahoo, Apache, Slackware, Cdrom, MS -Hotmail Server  
 FreeBSD

FreeBSD BSD-UNIX [www.kr.freebsd.org](http://www.kr.freebsd.org)  
 FreeBSD Release 4.5

FreeBSD , 4.5

가 FreeBSD 가 ,

가

- CPU : Intel Pentium III 700Mhz (Single)
- RAM : 1024MB 168Pin SDRAM ( PC 100 ? Samsung )
- M / B : Aopen AXPro Intel 443BX - BlackBoard
- HDD : IBM ? DMVS 18.2GB SCSI HardDisk ( Not Array )
- VGA : Creativelab GeforceDDR 32MB AGP
- C D : LG -40X IDE CD-ROM
- M S : A4Tech wireless 3 Button PS/2 Type
- K / B : IBM Netfinty Standard Black 106Key PS/2 Type

PC FreeBSD 가 .

FreeBSD . ( )

VMWare , 가

, , 가

## FreeBSD

FreeBSD는 UNIX 계열의 운영체제입니다. 이 가이드는 FreeBSD를 설치하는 방법을 설명합니다. FreeBSD는 CD-ROM 또는 NFS를 통해 설치할 수 있습니다. 설치 시 BIOS 설정을 변경해야 할 수 있습니다. 'Del' 키를 눌러 BIOS 설정을 변경하고 'F2' 키를 눌러 BIOS 설정을 저장합니다.

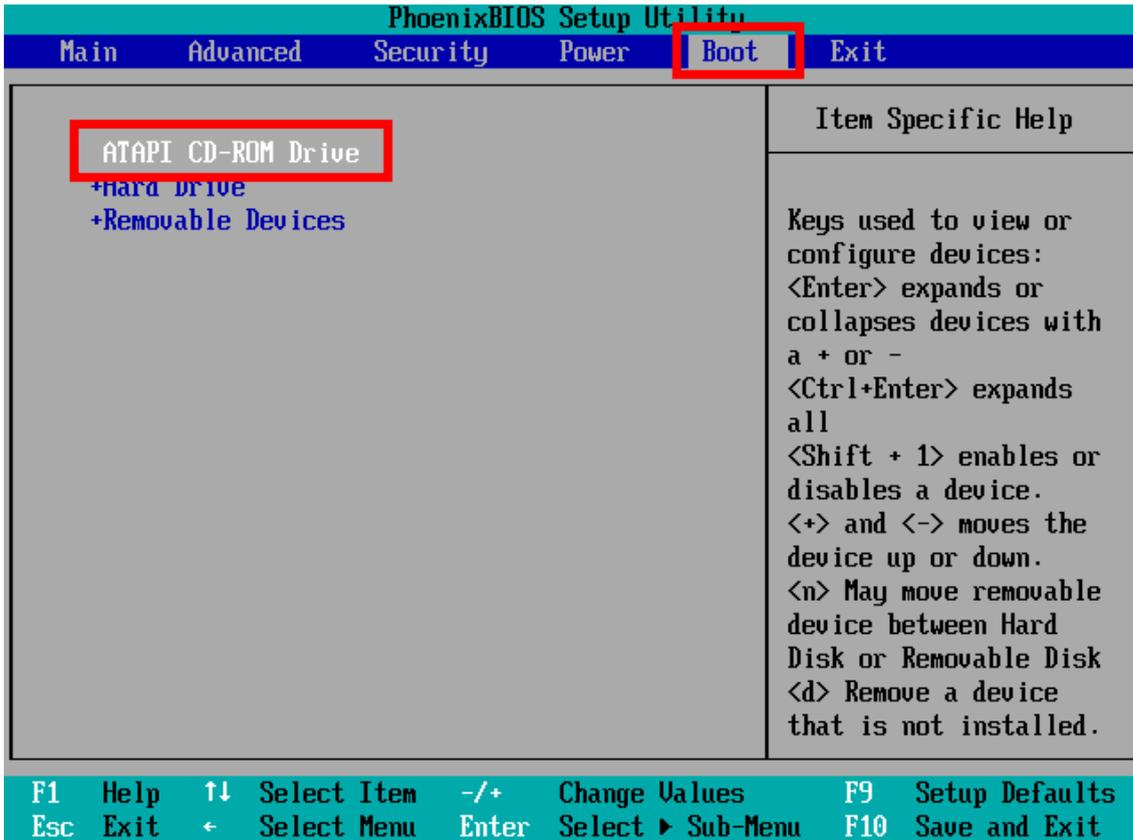
```
PhoenixBIOS 4.0 Release 6.0
Copyright 1985-2000 Phoenix Technologies Ltd.
All Rights Reserved
Copyright 2000-2001 VMware, Inc.
VMware BIOS build 212

CPU = Pentium III 700 MHz
540K System RAM Passed
255M Extended RAM Passed
256K Cache SRAM Passed
Mouse initialized
Fixed Disk 0: VMware Virtual IDE Hard Drive
ATAPI CD-ROM: VMware Virtual IDE CDROM Drive
```

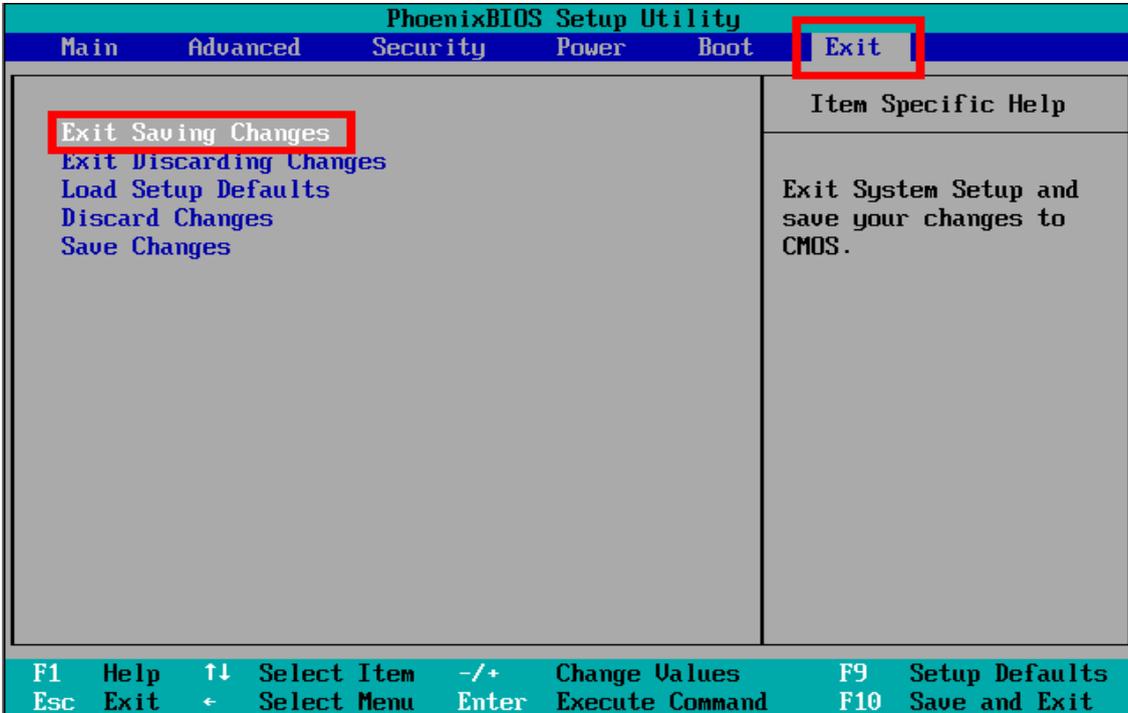
Press <F2> to enter SETUP

<F2>

PhoenixBIOS F2 , Award BIOS "Del"  
 Main / Advanced / Security / Power / Boot / Exit  
 Advanced Boot Sequence  
 CDROM



, Exit Save and Exit  
 . ( FreeBSD1 가 가 . )



, FreeBSD 가 . BTX .

```

Uncompressing ... done
BTX loader 1.00 BTX version is 1.01
Console: internal video/keyboard
BIOS drive A: is disk0
BIOS drive B: is disk1
BIOS drive C: is disk2
BIOS 638kB/261120kB available memory

FreeBSD/i386 bootstrap loader, Revision 0.8
(Murray@builder.freebsdmail.com, Mon Jan 28 13:01:20 GMT 2002)
/kernel text=0x267331 data=0x31cf0+0x20d64 /
/
Hit [Enter] to boot immediately, or any other key for command prompt.
Booting [kernel]...

```

가 FreeBSD . FreeBSD  
 가 ,  
 , VGA, , 가  
 가 가 .

```

Kernel Configuration Menu

Skip kernel configuration and continue with installation
Start kernel configuration in full-screen visual mode
Start kernel configuration in CLI mode

Here you have the chance to go into kernel configuration mode, making
any changes which may be necessary to properly adjust the kernel to
match your hardware configuration.

If you are installing FreeBSD for the first time, select Visual Mode
(press Down-Arrow then ENTER).

If you need to do more specialized kernel configuration and are an
experienced FreeBSD user, select CLI mode.

If you are certain that you do not need to configure your kernel
then simply press ENTER or Q now.

```

/ / .  
 "Skip kernel configuration and continue with installation"  
 , "Enter"  
 , 가  
 Full-screen visual mode "Del"  
 .!!

```

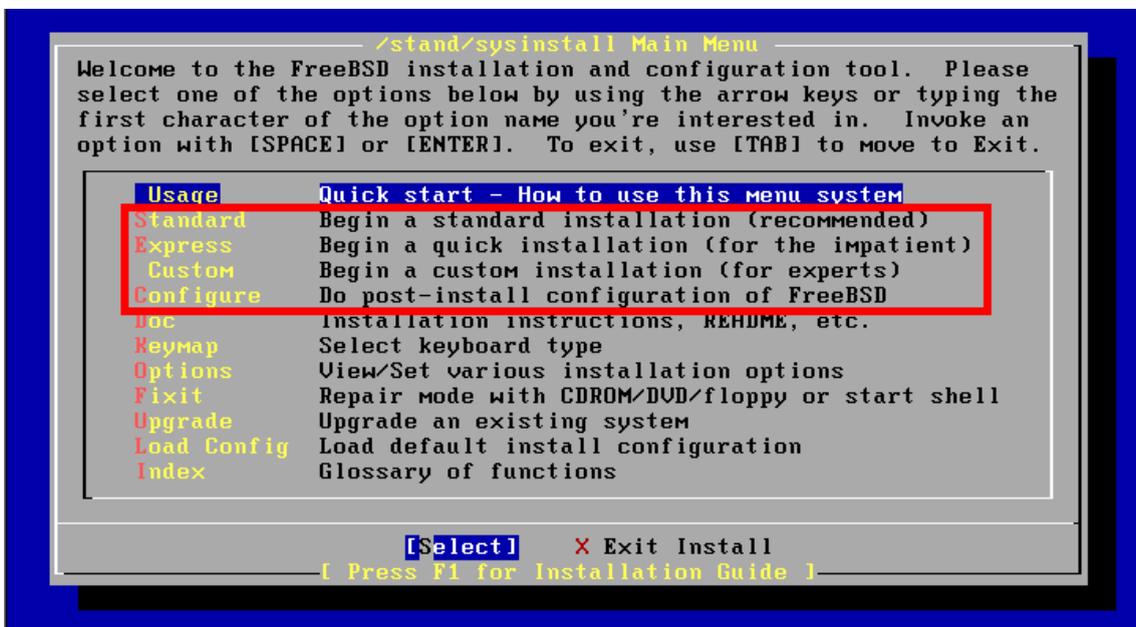
uhci0: <Intel 82371AB/EB (PIIX4) USB controller> port 0x1060-0x107f irq 9 at device 7.2 on pci0
usb0: <Intel 82371AB/EB (PIIX4) USB controller> on uhci0
usb0: USB revision 1.0
uhub0: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub0: 2 ports with 2 removable, self powered
chip1: <Intel 82371AB Power management controller> at device 7.3 on pci0
pci0: <unknown card> (vendor=0x0000, dev=0x0000) at 7.4
pci0: <unknown card> (vendor=0x0000, dev=0x0000) at 7.5
pci0: <unknown card> (vendor=0x0000, dev=0x0000) at 7.6
pci0: <unknown card> (vendor=0x0000, dev=0x0000) at 7.7
pci0: <UGA-compatible display device> at 15.0
lnc0: <PCnet/PCI Ethernet adapter> port 0x1080-0x109f irq 9 at device 16.0 on pci0
lnc0: PCnet-PCI II address 00:50:56:61:a1:2c
lnc0: driver is using old-style compatibility shims
orm0: <Option ROMs> at iomem 0xc0000-0xc5fff,0xd8000-0xdbfff,0xdc000-0xdffff on isa0
fdc0: <Intel 82077 or clone> at port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on isa0
fdc0: FIFO enabled, 8 bytes threshold
fd0: <1440-KB 3.5" drive> on fdc0 drive 0
atkbd0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0
atkbd0: <AT Keyboard> flags 0x1 irq 1 on atkbd0
kbd0 at atkbd0

```

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가

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FreeBSD 가

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가

Configure

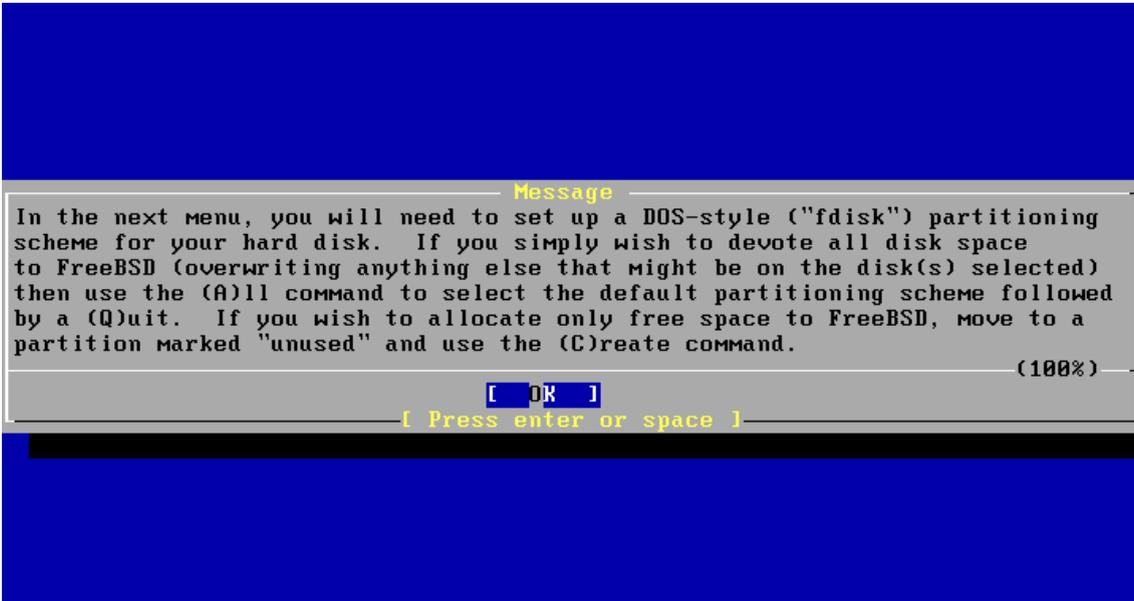
Standard / Express / Custom

가

Standard!!

!!

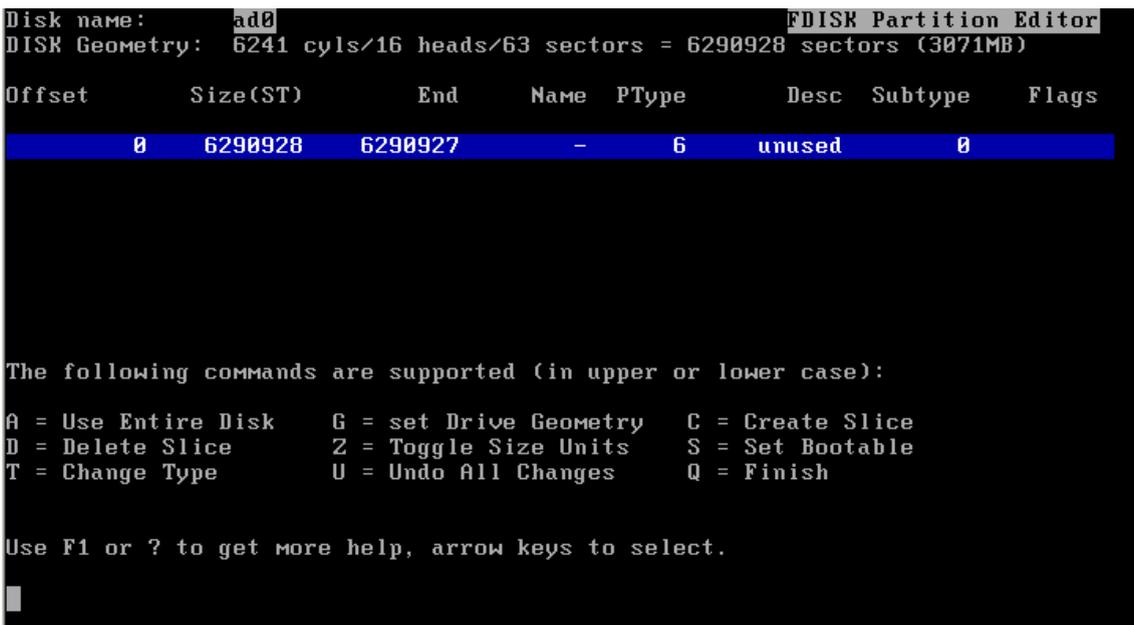
.!!



Fdisk

(?)

FreeBSD



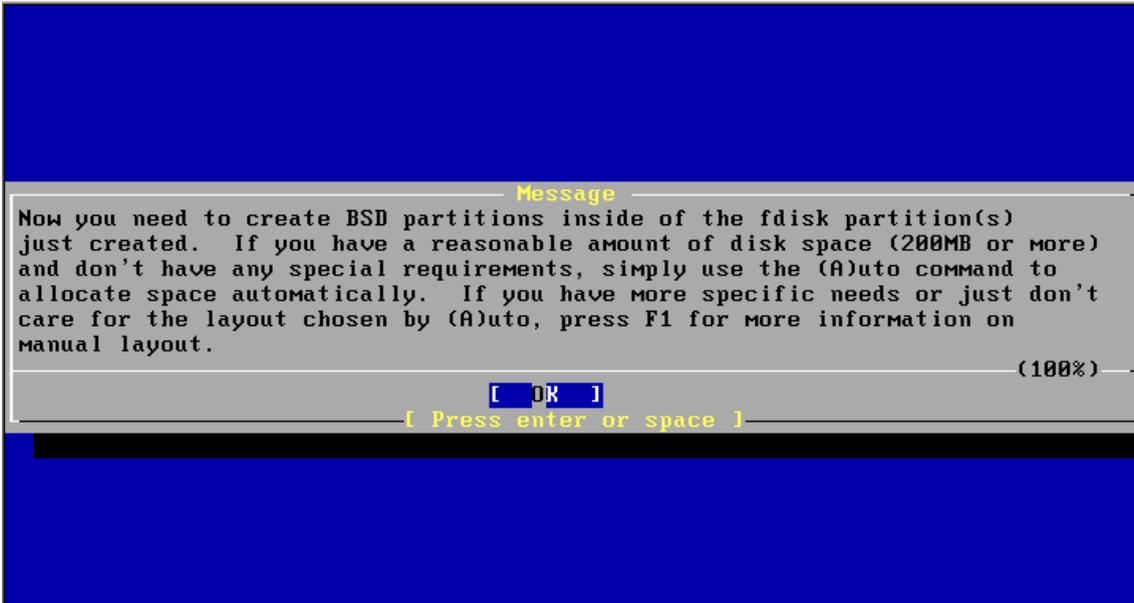


FreeBSDm

Standard

BootMgr

FreeBSD



/ , /boot, /var, /usr



“A”                    “Q”

```

FreeBSD Disklabel Editor
Disk: ad0      Partition name: ad0s1  Free: 0 blocks (0MB)
Part      Mount          Size Newfs  Part      Mount          Size Newfs
-----
ad0s1a    /                   128MB UFS     Y
ad0s1b    swap                497MB SWAP
ad0s1e    /var                256MB UFS+S Y
ad0s1f    /tmp                256MB UFS+S Y
ad0s1g    /usr                1934MB UFS+S Y

The following commands are valid here (upper or lower case):
C = Create          D = Delete      M = Mount pt.
N = Newfs Opts     Q = Finish     S = Toggle SoftUpdates
T = Toggle Newfs   U = Undo       A = Auto Defaults   R = Delete+Merge

Use F1 or ? to get more help, arrow keys to select.

```

“A”                    /usr  
. /usr  
. “Q”

```

Choose Distributions
As a convenience, we provide several "canned" distribution sets.
These select what we consider to be the most reasonable defaults for the
type of system in question. If you would prefer to pick and choose the
list of distributions yourself, simply select "Custom". You can also
pick a canned distribution set and then fine-tune it with the Custom item.

Choose an item by pressing [SPACE] or [ENTER]. When finished, choose the
Exit item or move to the OK button with [TAB].

<<< X Exit          Exit this menu (returning to previous)
[ ] All            All system sources, binaries and X Window System)
[ ] Reset          Reset selected distribution list to nothing
[ ] 4 Developer    Full sources, binaries and doc but no games
[ ] 5 X-Developer  Same as above + X Window System
[ ] 6 Kern-Developer Full binaries and doc, kernel sources only
[ ] 7 X-Kern-Developer Same as above + X Window System
[ ] 8 User         Average user - binaries and doc only
+ (+)

[ OK ]      Cancel
[ Press F1 for more information on these options. ]

```

FreeBSD

```

      . "All "
      . FreeBSDm
가 . + 가
      , FreeBSD
      . "All "

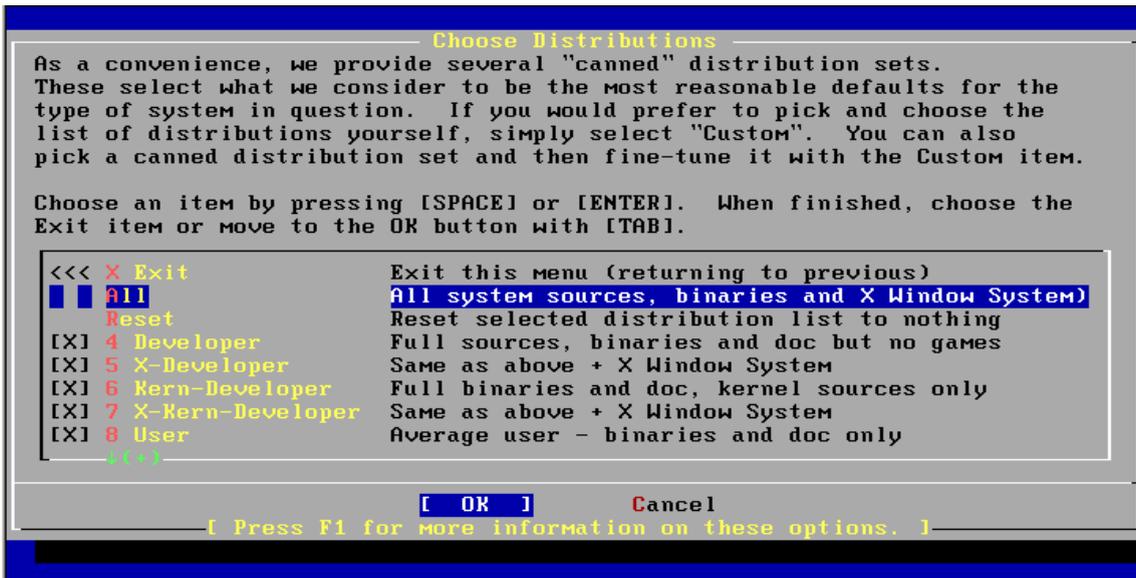
```



```

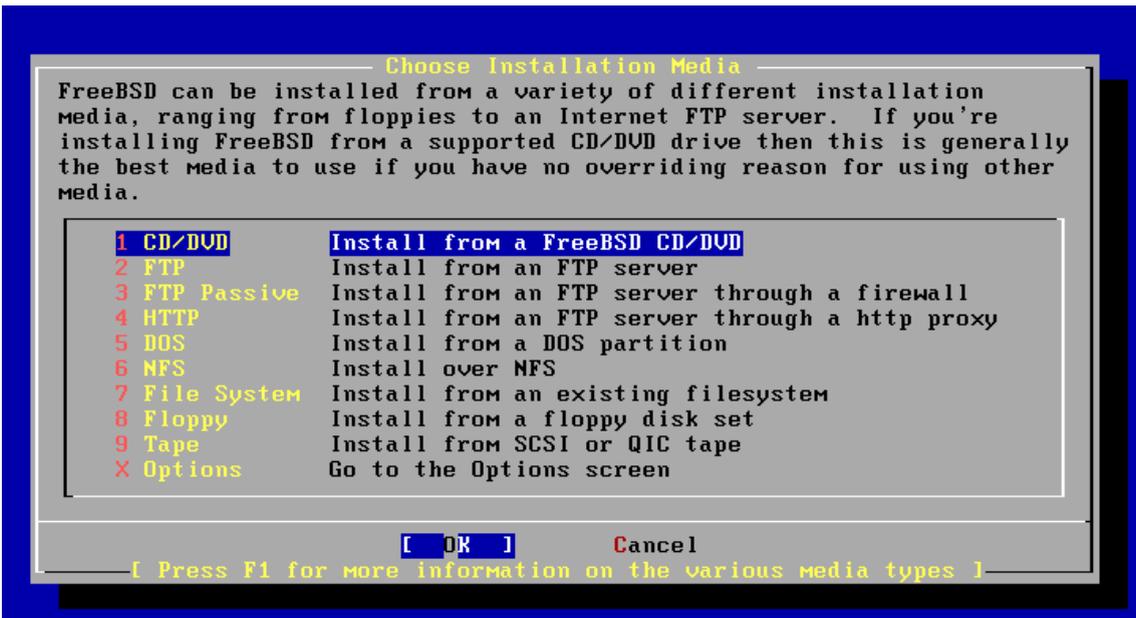
FreeBSD Ports( )
!!!
!!!
가 ...!!!!!!
!! "Yes" 가 , !!

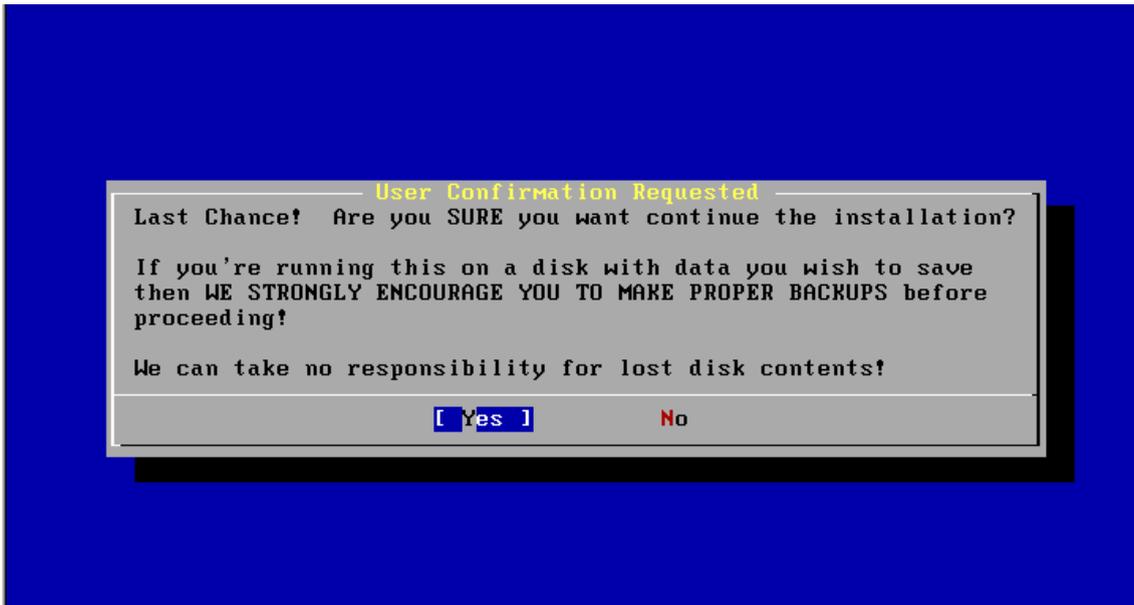
```



```

                .      FreeBSD
                .. FreeBSD      /stand/sysinstall (    )
Exit            .      . Exit
가            ,      ,
X Exit        /      /
가            .      .
가            .....
Exit          ,
                ..      CDROM      .      !!!!
    
```



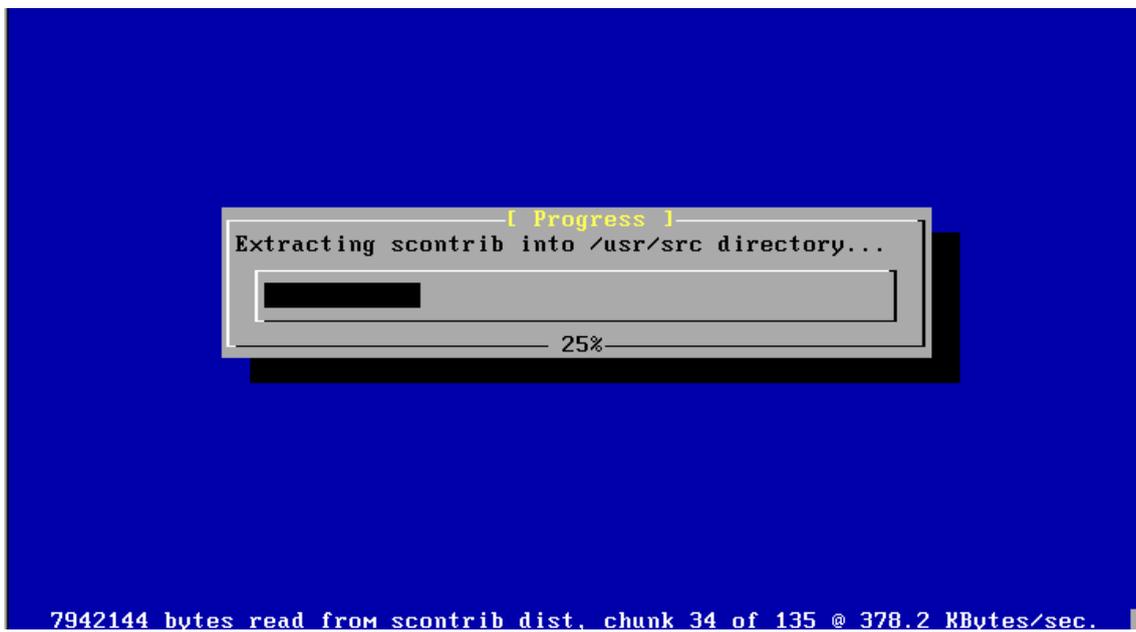
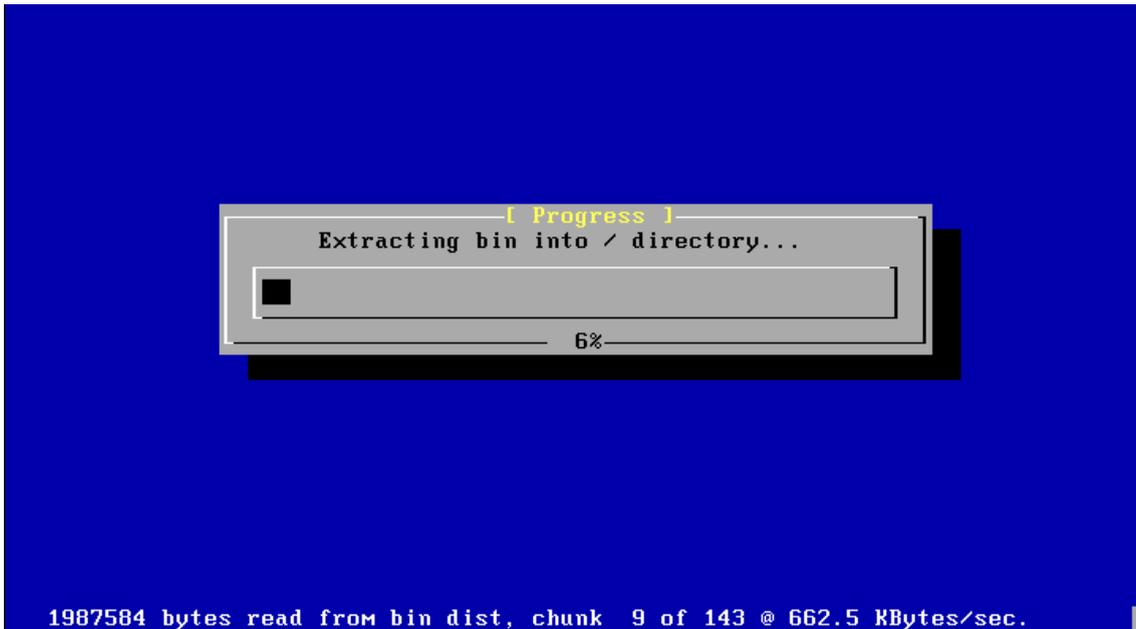


```

Last Chance!!          !!          ..          .
  "Yes " ,              ,              FreeBSD
          newfs(        )          ,
          가          !!          .!

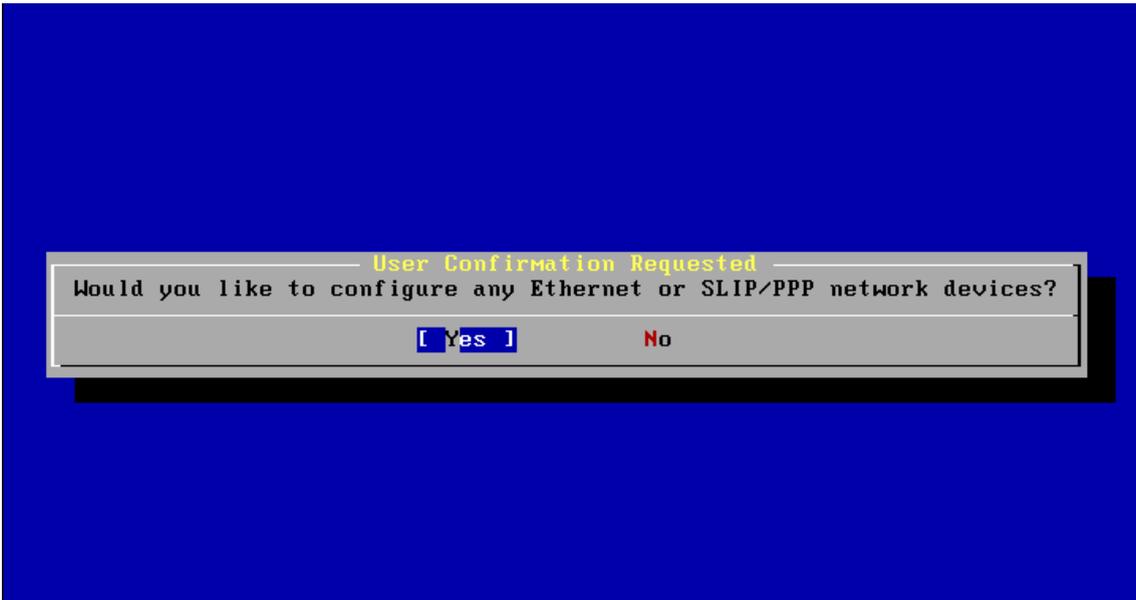
```



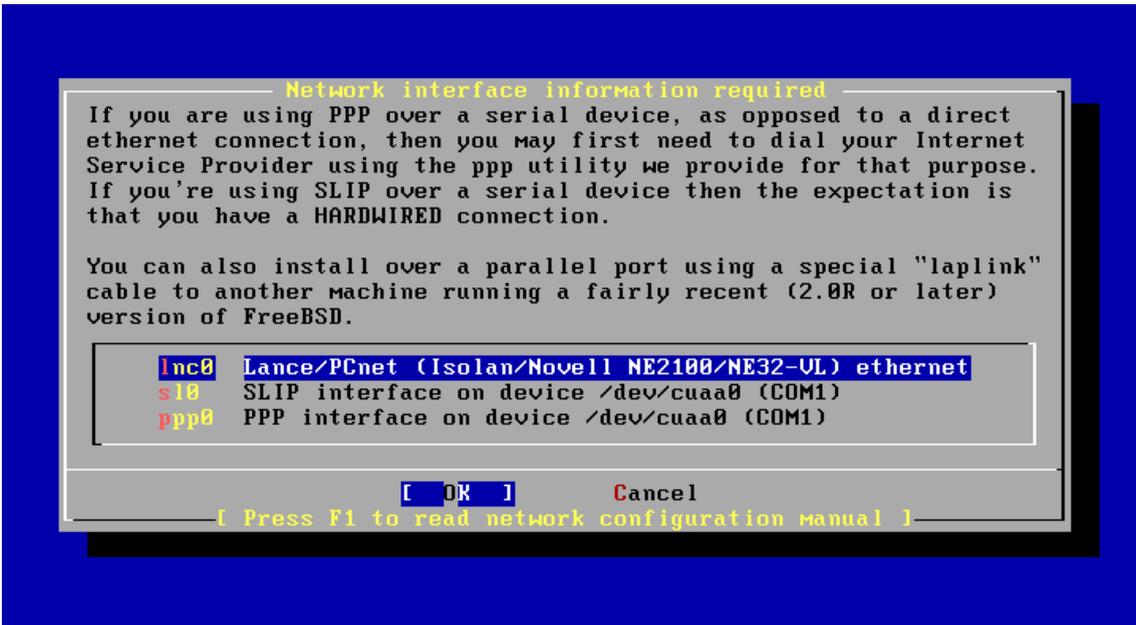




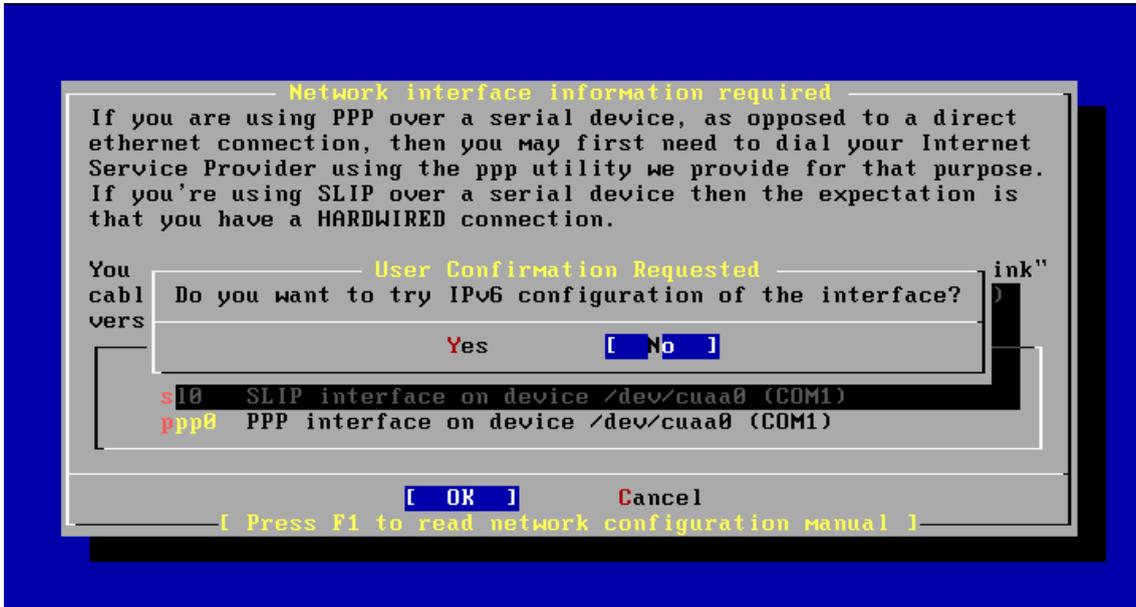




TCP/IP . "Yes "  
/stand/sysinstall !!!



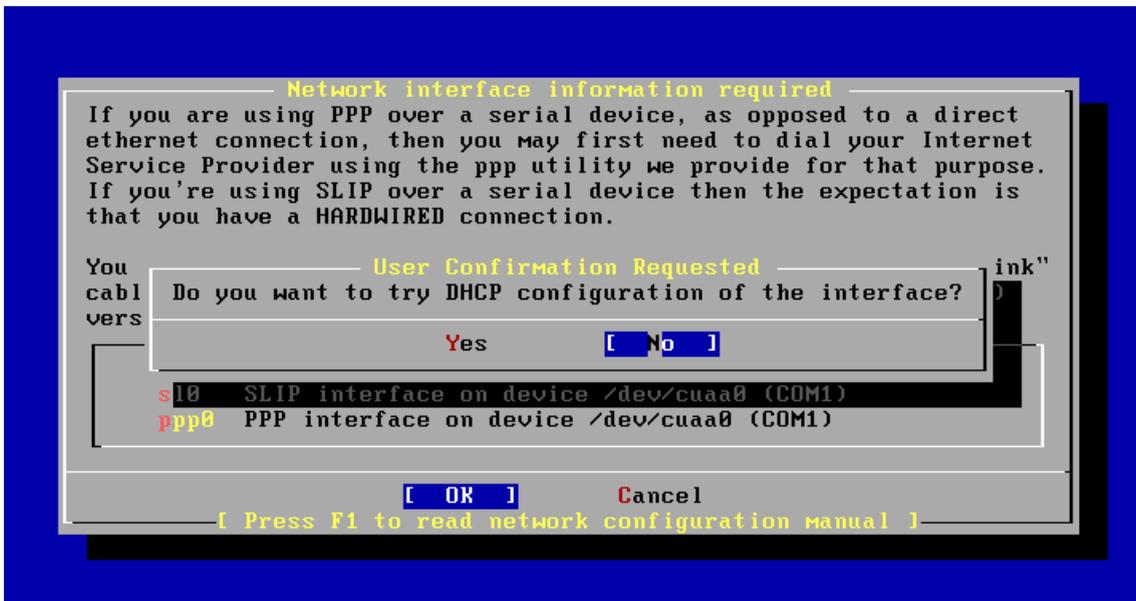
3 . SIO / PPP0 가 .  
가 COM1 . COM1 !!!  
Inc0 ... FreeBSD  
FreeBSD Eth0  
..( eth0 )  
Inc0 .



IPv6

!!!

'No "



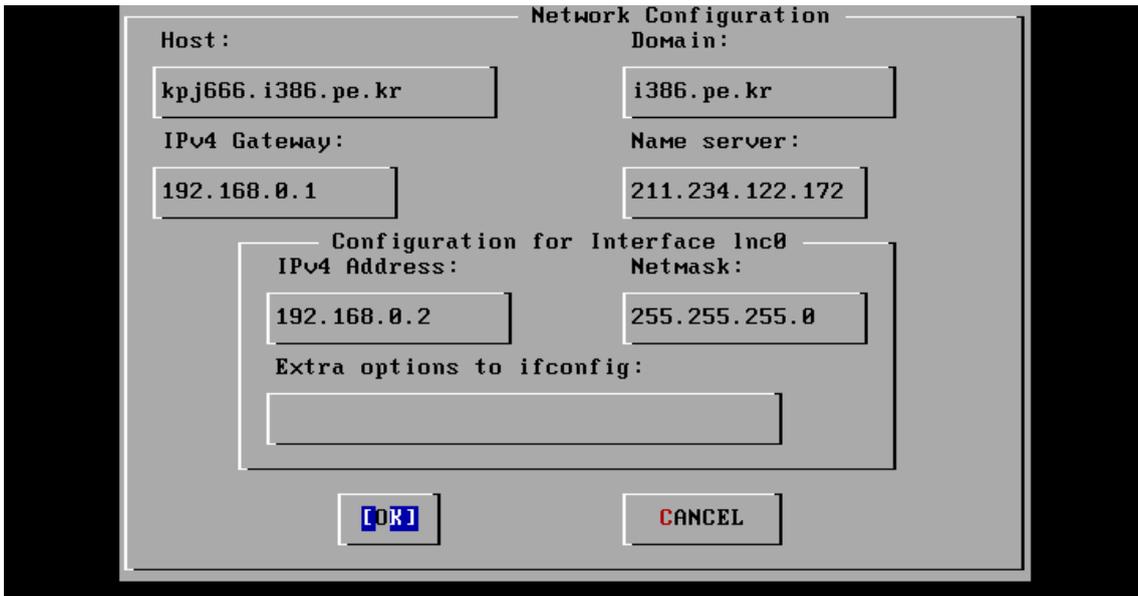
IP

DHCP

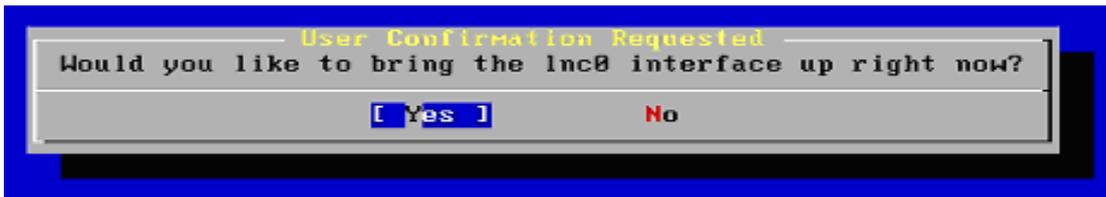
IP

Yes

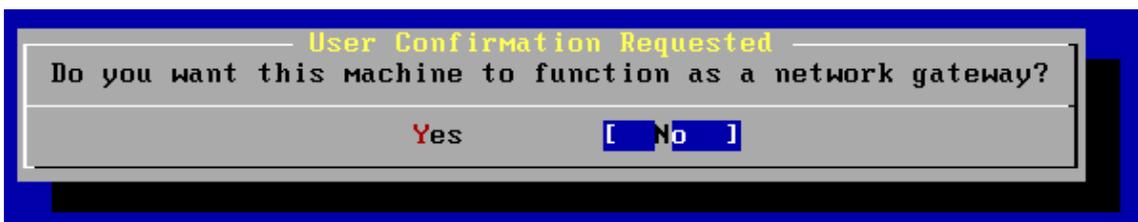
NO



.. [OK]

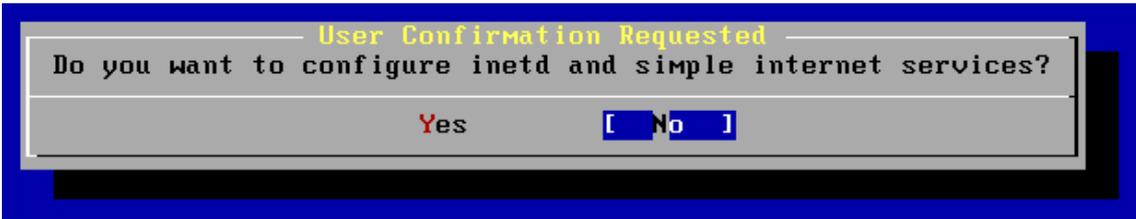


가 "Yes "

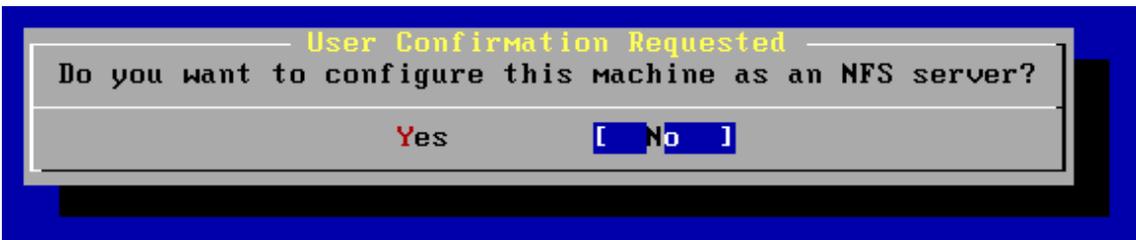


가

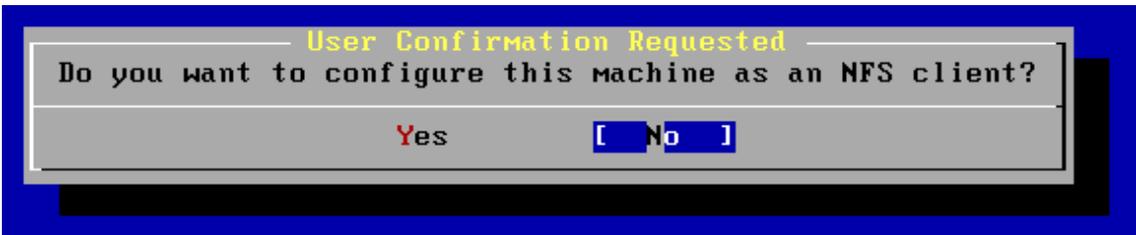
Yes



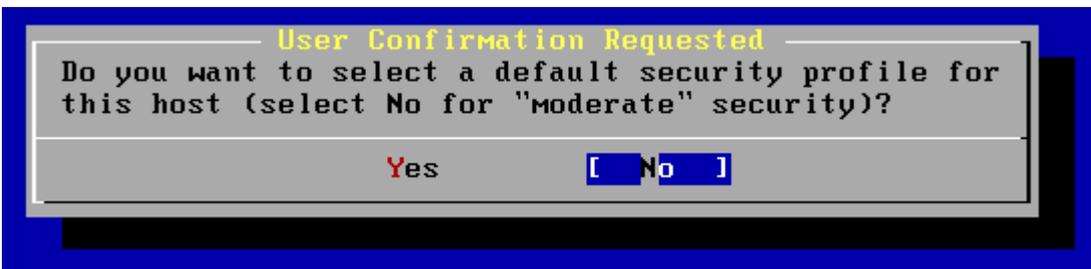
. inetd .  
No .



Sun NFS . /  
. 가 . No!!



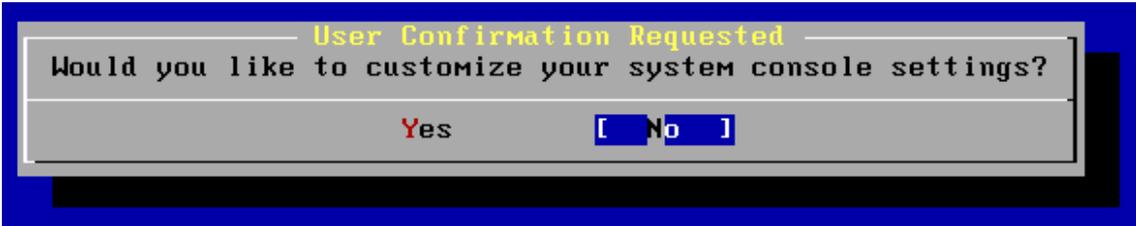
NFS . No .!



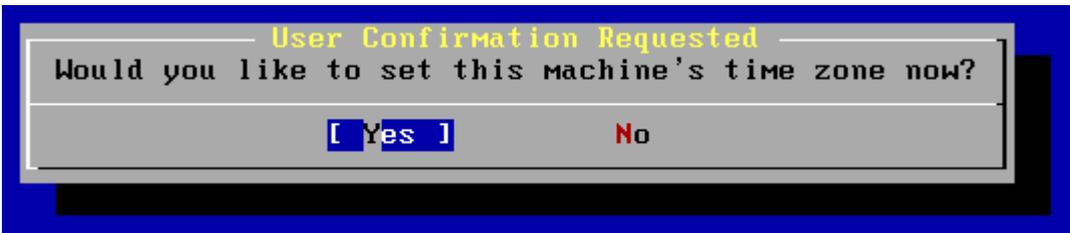
. Yes 가  
가 "No " moderate .



.!! ^^

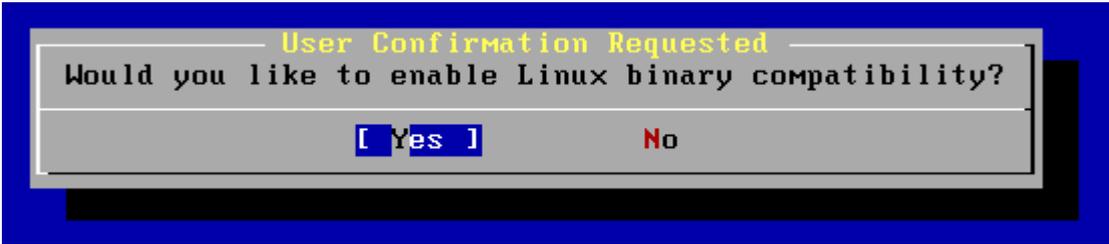


가 No

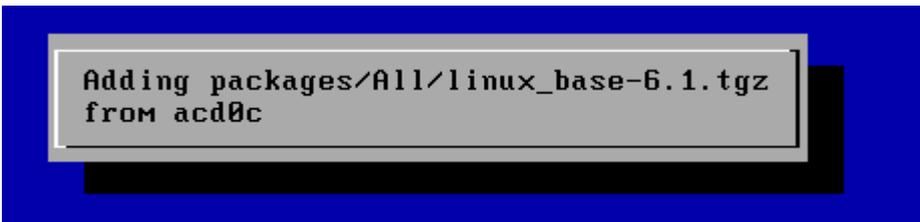


/ / / .....

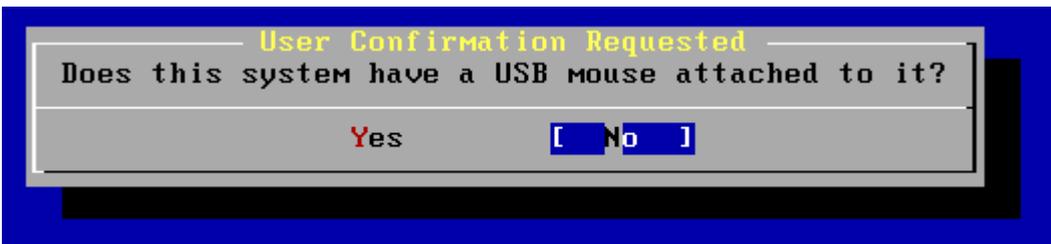
KST . NO .....



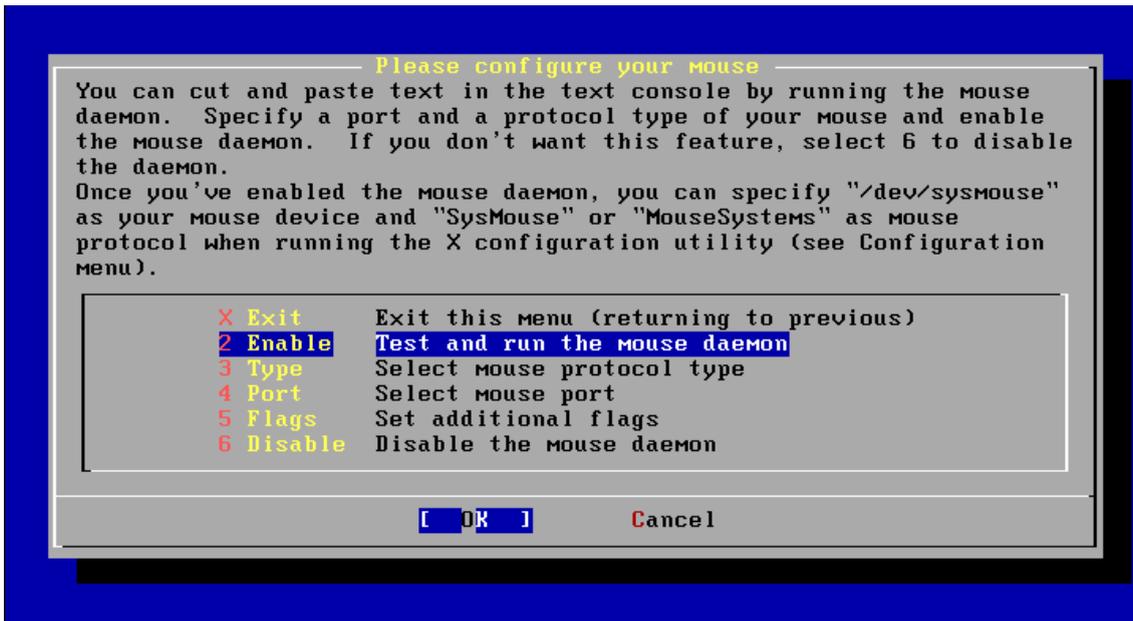
```
FreeBSD          SCO-UNIX / Linux / System V  
6.0  
Yes  
6.0  
Yes
```



linux-6.1



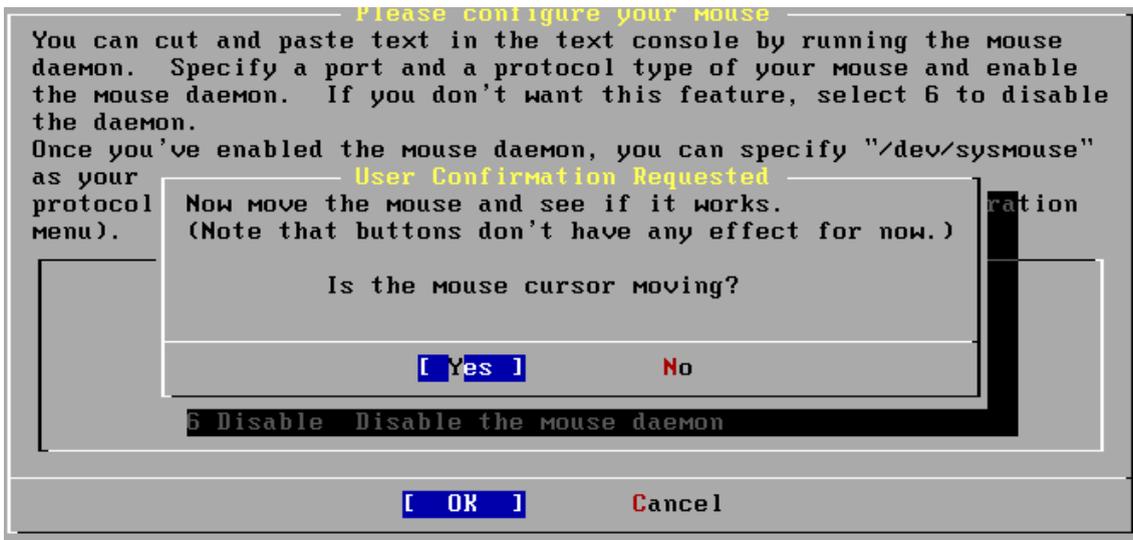
USB NO .. PS/2 !



FreeBSD

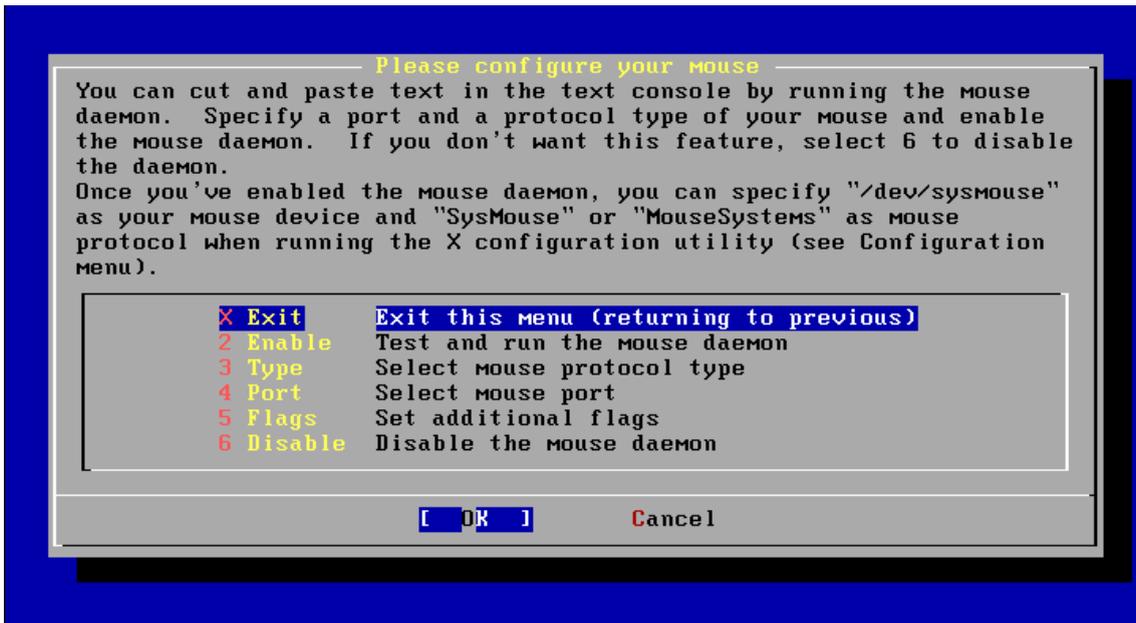
X

'Enable "

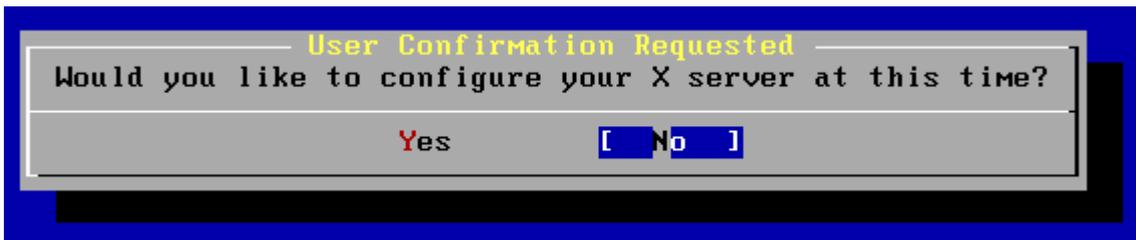


..

... Yes

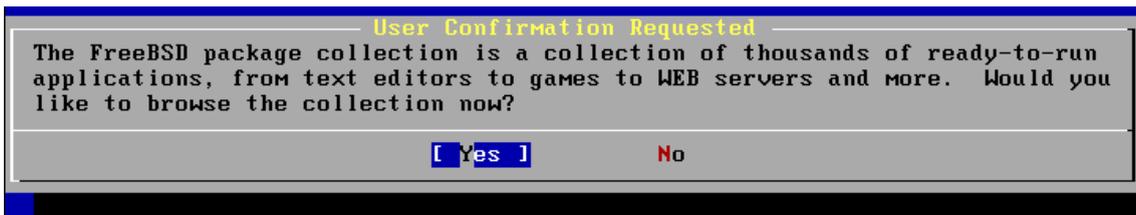


, Exit



X

No!!

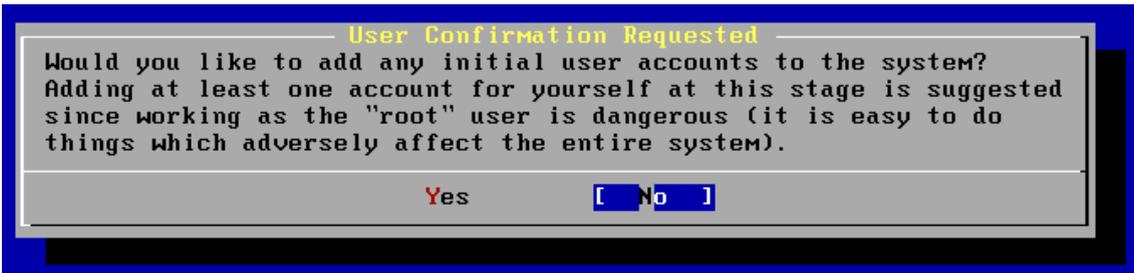


FreeBS

5000

가

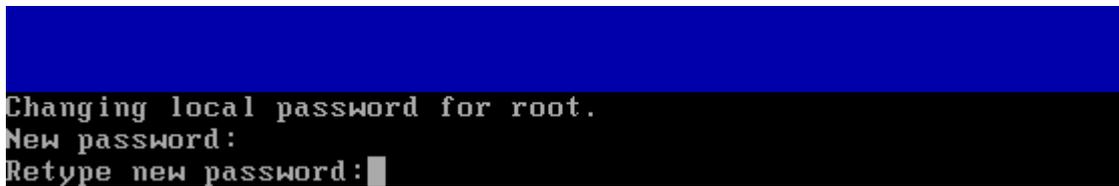
No



Root 가 , NO!!



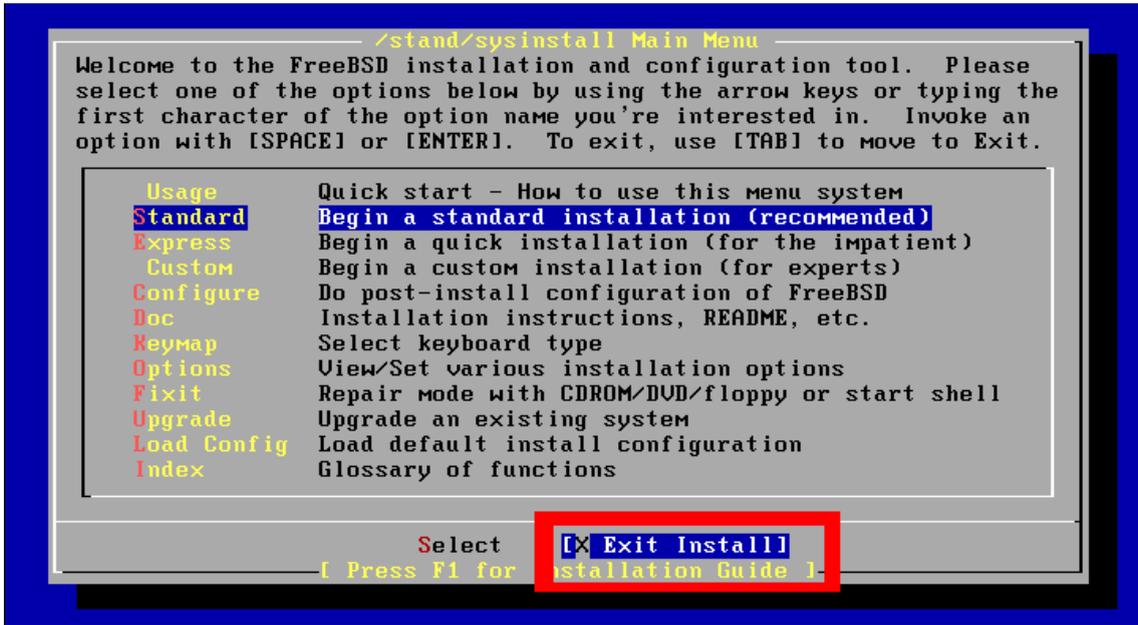
Root



....!!



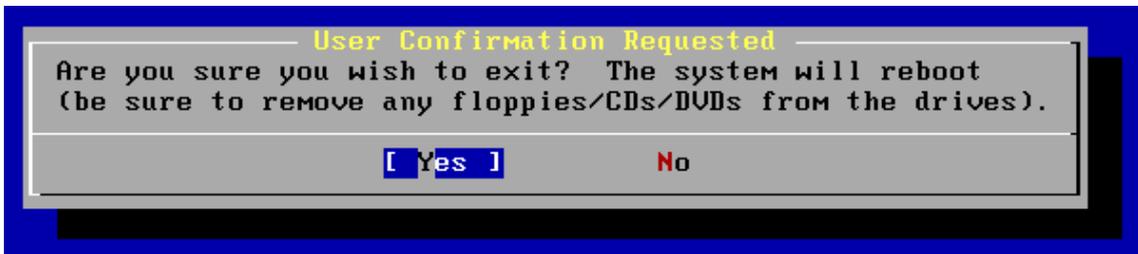
/stand/sysinstall 가 ...  
.. No!!!



```

..                               /stand/sysinstall                               ...

X Exit Install                               ...!!
    
```



```

.. Bios
,
...                               BIOS                               IDE
...                               FreeBSD                               ...!!

..!!!!                               BIOS                               IDE                               ..
Yes                               FreeBSD                               ...
    
```

```

BTX loader 1.00  BTX version is 1.01
Console: internal video/keyboard
BIOS drive A: is disk0
BIOS drive C: is disk1
BIOS 638kB/261120kB available memory

FreeBSD/i386 bootstrap loader, Revision 0.8
(Murray@builder.freebsdmail.com, Mon Jan 28 13:01:20 GMT 2002)
Loading /boot/defaults/loader.conf
/kernel text=0x2ac9f5 data=0x45cf0+0x22184 syms=[0x4+0x3c210+0x4+0x42601]
:
Hit [Enter] to boot immediately, or any other key for command prompt.
Booting [kernel] in 8 seconds... _

```

FreeBSD

..

FreeBSD

login:

..!!!

```

Your public key has been saved in /etc/ssh/ssh_host_key.pub.
The key fingerprint is:
f5:ed:cf:38:3e:6c:91:62:90:e1:68:db:ba:0d:73:95 root@kpj666.i386.pe.kr
creating ssh DSA host key
Generating public/private dsa key pair.
Your identification has been saved in /etc/ssh/ssh_host_dsa_key.
Your public key has been saved in /etc/ssh/ssh_host_dsa_key.pub.
The key fingerprint is:
66:69:04:45:b5:ec:3a:80:60:28:3c:86:cc:fc:17:e8 root@kpj666.i386.pe.kr
.
ELF ldconfig path: /usr/lib /usr/lib/compat /usr/X11R6/lib
a.out ldconfig path: /usr/lib/aout /usr/lib/compat/aout
Starting standard daemons: inetd cron sshd usbd sendmail^C.
Initial rc.i386 initialization:.
Configuring syscons: blanktime moused.
Additional ABI support: linux.
Local package initialization:.
Additional TCP options:.

Mon Jun 17 09:56:20 GMT 2002

FreeBSD/i386 (kpj666.i386.pe.kr) (ttyv0)

login: root
Password:

```

"login : " root

..

FreeBSD

!!

```
FreeBSD 4.5-RELEASE (GENERIC) #0: Mon Jan 28 14:31:56 GMT 2002
Welcome to FreeBSD!

Before seeking technical support, please use the following resources:

o Security advisories and updated errata information for all releases are
  at http://www.FreeBSD.org/releases/ - always consult the ERRATA section
  for your release first as it's updated frequently.

o The Handbook and FAQ documents are at http://www.FreeBSD.org/ and,
  along with the mailing lists, can be searched by going to
  http://www.FreeBSD.org/search/. If the doc distribution has
  been installed, they're also available formatted in /usr/share/doc.

If you still have a question or problem, please take the output of
'uname -a', along with any relevant error messages, and email it
as a question to the questions@FreeBSD.org mailing list. If you are
unfamiliar with FreeBSD's directory layout, please refer to the hier(7)
man page. If you are not familiar with man pages, type 'man man'.
You may also use '/stand/sysinstall' to re-enter the installation and
configuration utility. Edit /etc/motd to change this login announcement.

kpj666#
```

```
FreeBSD .. X ,
, .....

FreeBSD 가 ..
/stand/sysinstall ...!!

.... /stand/sysinstall !!
```

```
FreeBSD 4.5-RELEASE (GENERIC) #0: Mon Jan 28 14:31:56 GMT 2002
Welcome to FreeBSD!

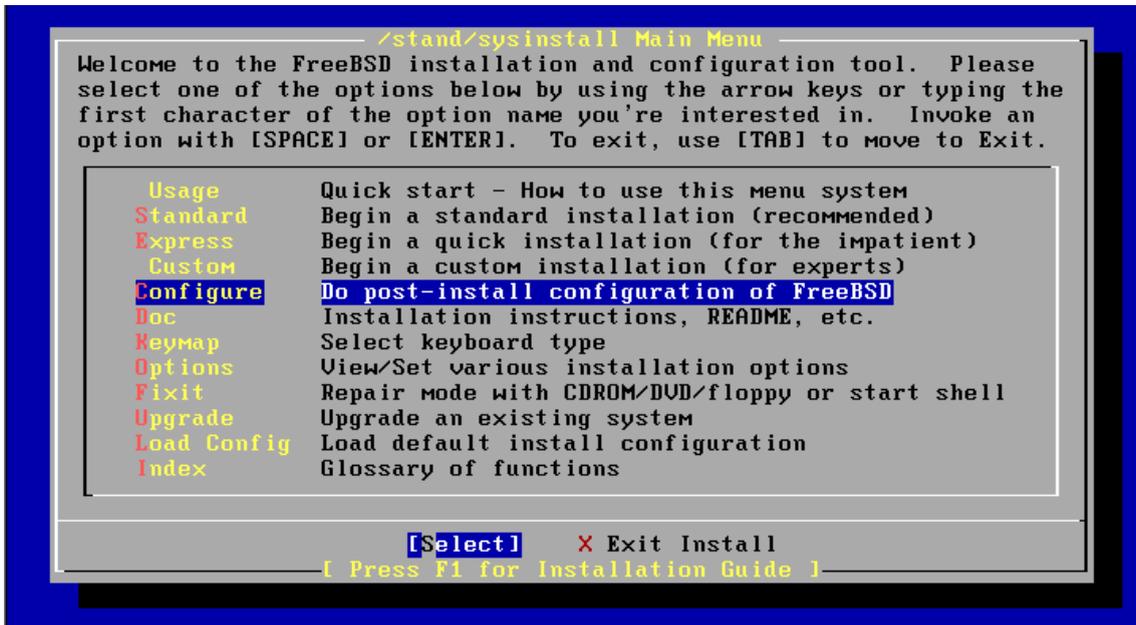
Before seeking technical support, please use the following resources:

o Security advisories and updated errata information for all releases are
  at http://www.FreeBSD.org/releases/ - always consult the ERRATA section
  for your release first as it's updated frequently.

o The Handbook and FAQ documents are at http://www.FreeBSD.org/ and,
  along with the mailing lists, can be searched by going to
  http://www.FreeBSD.org/search/. If the doc distribution has
  been installed, they're also available formatted in /usr/share/doc.

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'uname -a', along with any relevant error messages, and email it
as a question to the questions@FreeBSD.org mailing list. If you are
unfamiliar with FreeBSD's directory layout, please refer to the hier(7)
man page. If you are not familiar with man pages, type 'man man'.
You may also use '/stand/sysinstall' to re-enter the installation and
configuration utility. Edit /etc/motd to change this login announcement.

kpj666# /stand/sysinstall
```

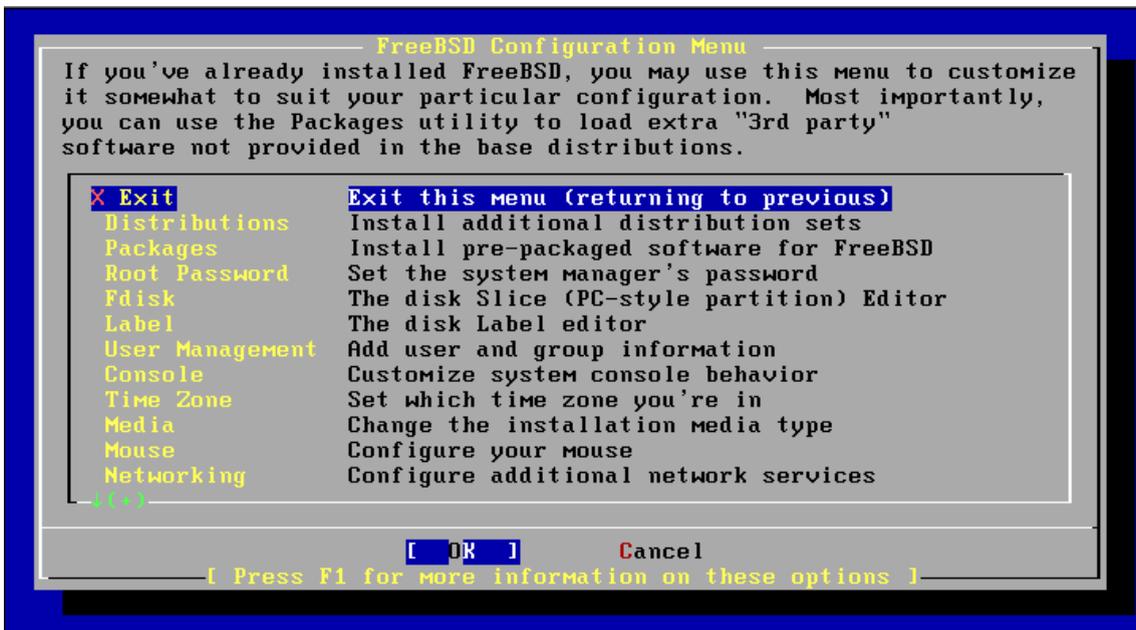


..!! FreeBSD

..!!

Configure

.....!!



( ) ,

가

....

가

..

... (

가

!!)

```

'cancel "           Exit install           !!
kpj666# uname -a
FreeBSD kpj666.i386.pe.kr 4.5-RELEASE FreeBSD 4.5-RELEASE #0: Mon Jan 28 14:31:5
6 GMT 2002      murray@builder.freebsdmail.com:/usr/src/sys/compile/GENERIC i386
kpj666# █

```

..!!

FreeBSD , , FreeBSD

..!

FreeBSD

PC FreeBSD / / FTP /

IRC / NFS / Samba / Telnet .....

FreeBSD .!!

FreeBSD .!!

!! FreeBSD

가 .

가

FreeBSD 가 ,

..!! 가 FreeBSD

.. FreeBSD

가 FreeBSD .!

2002 6 .... !!