

FreeBSD

Korea FreeBSD Users Group – <http://www.kr.FreeBSD.org/>

Installing Applications (Packages and Ports):

()

<rick@rickinc.com> .

2004 8 7 .
 1.1

FreeBSD Documentation Project FreeBSD Handbook
 2004 8 7 . FreeBSD Handbook ,
 , CVS Repository
 .
 ,
 가 가
 .
 ,
 .
 “FreeBSD Handbook” “FreeBSD Documentation Project” , “
 FreeBSD ” (Young-oak Lee) .

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4 :

4.1

FreeBSD 가 가 .
FreeBSD 가 .
가 . FreeBSD
가 . 가
(FreeBSD CD-ROM DVD-ROM)

- () 가
- 가
- 가
- 가
- 가

4.2

. Z :
(<http://www.zsh.org>) FTP (<ftp://ftp.zsh.org/zsh>)
zsh-4.2.1.tar.gz
mv zsh-4.2.1.tar.gz /tmp

```

( compress(1), gzip(1)
bzip2(1) ) :
# tar xzvf zsh-4.2.1.tar.gz

( INSTALL README , doc/
) ,

.
# cd zsh-4.2.1
# more INSTALL

. Makefile
configure :
# ./configure

가

# make
# make install

가 , FreeBSD (
FreeBSD )

.
“ ”
. FreeBSD 가
. 10,550 가

FreeBSD
. ,
가 . pkg_add(1), pkg_delete(1),
pkg_info(1) FreeBSD

FreeBSD
```

) (가
가

가

FreeBSD 가
pkg_add , 가

Libraries have been installed in:
/usr/local/lib

If you ever happen to want to link against installed libraries in a given directory, LIBDIR, you must either use libtool, and specify the full pathname of the library, or use the `~LLIBDIR` flag during linking and do at least one of the following:

- add LIBDIR to the `LD_LIBRARY_PATH` environment variable during execution
- add LIBDIR to the `LD_RUN_PATH` environment variable during linking
- use the `~Wl,--rpath ~Wl,LIBDIR` linker flag

See any operating system documentation about shared libraries for more information, such as the `ld(1)` and `ld.so(8)` manual pages.

가 , FreeBSD 가 가 가
가

4.2.1

- (tar)

- GNOME 가 (가).
Mozilla, KDE

- 가 .

4.2.2

- III
- Apache 가

가 가
Ghostscript X11 ghostscript
ghostscript-nox11
가 ,
가 가 .

-
- 가
- 가 .

-

가 .

가 FreeBSD

(<http://lists.FreeBSD.org/mailman/listinfo/freebsd-ports>) FreeBSD

(<http://lists.FreeBSD.org/mailman/listinfo/freebsd-ports-bugs>) 가 .

가 [C.1] .

:

<http://vuxml.freebsd.org/> (FreeBSD FreeBSD) .

[security/portaudit](#) .

`portaudit -F -a` .

4.3

FreeBSD

가 .

가 :

- FreeBSD

<http://www.FreeBSD.org/ports/>

- Dan Langille <http://www.FreshPorts.org/> . FreshPorts
가

- FreshMeat(<http://www.freshmeat.net/>)
FreeBSD

4.4

4.4.1

FreeBSD pkg_add(1)

4-1.

```
# ftp -a ftp2.FreeBSD.org
Connected to ftp2.FreeBSD.org.
220 ftp2.FreeBSD.org FTP server (Version 6.00LS) ready.
331 Guest login ok, send your email address as password.
230-
230- This machine is in Vienna, VA, USA, hosted by Verio.
230- Questions? E-mail freebsd@vienna.verio.net.
230-
230-
230 Guest login ok, access restrictions apply.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> cd /pub/FreeBSD/ports/packages/sysutils/
250 CWD command successful.
```

```
ftp> get lsof-4.56.4.tgz
local: lsof-4.56.4.tgz remote: lsof-4.56.4.tgz
200 PORT command successful.
150 Opening BINARY mode data connection for 'lsof-4.56.4.tgz' (92375 bytes).
100% |*****| 92375      00:00 ETA
226 Transfer complete.
92375 bytes received in 5.60 seconds (16.11 KB/s)
ftp> exit

# pkg_add lsof-4.56.4.tgz
```

```
(FreeBSD CD-ROM ) 가 pkg_add(1) -r
가
FTP 가
```

```
# pkg_add -r lsof
```

```
pkg_add(1) fetch(3) FTP_PASSIVE_MODE, FTP_PROXY FTP_PASSWORD
가
, FTP/HTTP
fetch(3) lsof lsof-
4.56.4 ( )
. pkg_add(1) 가
.tgz
```

```
http://ftp.FreeBSD.org/pub/FreeBSD/ports/packages/ FreeBSD CD-ROM
. FreeBSD 4-CD ( PowerPak ) CD ,
/packages 가 ( )
/usr/ports 가
All
/
```


4.4.2

pkg_info(1)

```
# pkg_info
cvsup - 16.1      A general network file distribution system optimized for CV
docbook - 1.2     Meta-port for the different versions of the DocBook DTD
...
```

pkg_version(1)

```
# pkg_version
cvsup           =
docbook         =
...
```

(=)

=	
<	
>	가 . (
?	(가) .
*	가 가 .

4.4.3

pkg_delete(1)

```
# pkg_delete xchat - 1.7.1
```

4.4.4

/var/db/pkg

4.5

4.5.1

가 Makefiles , /usr/ports

FreeBSD sysinstall
no

■ [: Sysinstall]

sysinstall

root /stand/sysinstall :
/stand/sysinstall

```

FreeBSD Configuration Menu
If you've already installed FreeBSD, you may use this menu to customize
it somewhat to suit your particular configuration. Most importantly,
you can use the Packages utility to load extra "3rd party"
software not provided in the base distributions.

X Exit          Exit this menu (returning to previous)
Distributions   Install additional distribution sets
Packages        Install pre-packaged software for FreeBSD
Root Password   Set the system manager's password
Fdisk          The disk Slice (PC-style partition) Editor
Label          The disk Label editor
User Management Add user and group information
Console        Customize system console behavior
Time Zone      Set which time zone you're in
Media          Change the installation media type
Mouse          Configure your mouse
Networking     Configure additional network services
Security       Select default system security profile
Startup        Configure system startup options
TTYs           Configure system ttys.
Options        View/Set various installation options
XFree86        Configure XFree86 Server
Desktop        Configure XFree86 Desktop
HTML Docs      Go to the HTML documentation menu (post-install)
Load KLD       Load a KLD from a floppy

          [OK]          [Cancel]

[ Press F1 for more information on these options ]

```

Configure Enter

```

Usage          Quick start - How to use this menu system
Standard       Begin a standard installation (recommended)
Express        Begin a quick installation (for the impatient)
Custom         Begin a custom installation (for experts)
Configure      Do post-install configuration of FreeBSD
Doc            Installation instructions, README, etc.
Keymap         Select keyboard type

```

Distributions Enter

```

X Exit          Exit this menu (returning to previous)
Distributions   Install additional distribution sets
Packages        Install pre-packaged software for FreeBSD
Root Password   Set the system manager's password

```

ports Enter

```

[ ] src          Sources for everything
[ ] ports        The FreeBSD Ports collection
[ ] local        Local additions collection
[ ] XFree86      The XFree86 distribution

```

Exit Enter

```

<< X Exit       Exit this menu (returning to previous)
  All           All system sources, binaries and X Window System
  Reset         Reset all of the below
[ ] bin         Binary base distribution (required)

```

CDROM, FTP

```
1 CD/DVD      Install from a FreeBSD CD/DVD
2 FTP        Install from an FTP server
3 FTP Passive Install from an FTP server through a firewall
4 HTTP       Install from an FTP server through a http proxy
```

Exit Enter

```
X Exit      Exit this menu (returning to previous)
Distributions Install additional distribution sets
Packages    Install pre-packaged software for FreeBSD
Root Password Set the system manager's password
```

X sysinstall

```
-----
Select  [X] Exit Install
----- [ Press F1 for Installation Guide ] -----
```

```
가      CVSUp
/usr/share/examples/cvsup/      CVSUp
[CVSUp ] ( A.5)
■ [CVSUp ]
CVSUp
CVSUp
net/cvsup      CVSUp ( A.5.2)
# cd /usr/ports/net/cvsup [ ]
# make install [ ]
root /usr/share/exaples/cvsup/ports-supfile /root
# cp /usr/share/examples/cvsup/ports-supfile . [ ]
ports-supfile
# vi ports-supfile
```

CHAGE_THIS.FreeBSD.org 가 가 CVSup (cvsup.kr.FreeBSD.org)
[CVSup] (A.5.7)

cvsup :

cvsup -g -L 2 /root/ports-supfile

가

4.5.2

“ ()”
, FreeBSD

가 :

- [Makefile]
, 가
- [distinfo] , md5(1)
가 가
- [file] FreeBSD
가
" 10 "
" 26 " diff(1)
"diffs"
가
- [pkg-descr]
- [pkg-plist] 가

pkg - message 가 .

FreeBSD

(http://www.freebsd.org/doc/en_US.ISO8859-1/books/porters-handbook/index.html).

가 .

. FreeBSD

(<http://www.freebsd.org/ports/index.html>) ,

가 .

whereis(1)

whereis *file* ,

file

:

whereis lsof

lsof: /usr/ports/sysutils/lsof

lsof /usr/ports/sysutils/lsof .

/usr/ports

make

search name=*program-name* ,

program-name

lsof :

cd /usr/ports

make search name=lsof

Port: lsof-4.56.4

Path: /usr/ports/sysutils/lsof

Info: Lists information about open files (similar to fstat(1))

Maint: obrien@FreeBSD.org

Index: sysutils

B-deps:

R - deps:

```

가 , "Path:"
.
make search key=string , string
. , .
가 . "LSOF" "Isosf"
.

```

Note: root .

```

가 .
가 . CD-ROM
가 .
tar gzip ,
가 "distfile" . Distfile CD-ROM
.

```

```

:
http://vuxml.freebsd.org
.
portaudit
.
(security/portaudit)
.
portaudit -F
.
portaudit(1) periodic(8)
.

```

4.5.2.1 CD-ROM

```

FreeBSD CD-ROM distfile
CD-ROM 가
FreeBSD PowerPak CD-ROM distfile FreeBSD

```

(<http://www.freebsdmail.com/>) FreeBSD
CD-ROM 가 가 .

FreeBSD CD-ROM /cdrom (가
) :

```
# mount /cdrom  
# cd /usr/ports/sysutils/Isuf
```

```
Isuf " ( )"  
make  
:
```

```
# make  
>> Isuf_4.57D.freebsd.tar.gz doesn't seem to exist in /usr/ports/distfiles/.  
>> Attempting to fetch from file:/cdrom/ports/distfiles/.  
====> Extracting for Isuf-4.57  
...  
[extraction output snipped]  
...  
>> Checksum OK for Isuf_4.57D.freebsd.tar.gz.  
====> Patching for Isuf-4.57  
====> Applying FreeBSD patches for Isuf-4.57  
====> Configuring for Isuf-4.57  
...  
[configure output snipped]  
...  
====> Building for Isuf-4.57  
...  
[compilation output snipped]  
...  
#
```

install

```
make :
```

```
# make install  
====> Installing for Isuf-4.57
```



```
...
[installation output snipped]
...
====> Generating temporary packing list
====> Compressing manual pages for Isof-4.57
====> Registering installation for Isof-4.57
====> SECURITY NOTE:
      This port has installed the following binaries which execute with
      increased privileges.
#
```

가 . Isof 가
가 .

Note: PATH
rehash
(tcsh) (shells/zsh)

4.5.2.2

가
CD-ROM distfile /usr/ports/distfiles

Note: CD-ROM
CD-ROM
CD-ROM
distfile CD-ROM

```
# make install
>> Isov_4.57D.freebsd.tar.gz doesn't seem to exist in /usr/ports/distfiles/.
>> Attempting to fetch from ftp://ftp.FreeBSD.org/pub/FreeBSD/ports/distfiles/.
Receiving Isov_4.57D.freebsd.tar.gz (439860 bytes): 100%
439860 bytes transferred in 18.0 seconds (23.90 kBps)
====> Extracting for Isov-4.57
...
[extraction output snipped]
...
>> Checksum OK for Isov_4.57D.freebsd.tar.gz.
====> Patching for Isov-4.57
====> Applying FreeBSD patches for Isov-4.57
====> Configuring for Isov-4.57
...
[configure output snipped]
...
====> Building for Isov-4.57
...
[compilation output snipped]
...
====> Installing for Isov-4.57
...
[installation output snipped]
...
====> Generating temporary packing list
====> Compressing manual pages for Isov-4.57
====> Registering installation for Isov-4.57
====> SECURITY NOTE:
      This port has installed the following binaries which execute with
      increased privileges.
#
```

/usr/ports/distfiles/

distfile

<ftp://ftp.FreeBSD.org/pub/FreeBSD/ports/distfiles/>

FTP_PASSIVE_MODE, FTP_PROXY

```

FTP_PASSWORD                가                fetch(1)
.                            가                ,
FTP/HTTP                    fetch(3)
.
.                            make fetch                가
(/usr/ports)
/usr/ports/net              가
.                            distfile
.                            fetch  fetch -recursive

```

Note: make fetch make

```

가 MASTER_SITES 가 ( ) (tar
) MASTER_SITE :

```

```
# cd /usr/ports/directory
```

```
# make MASTER_SITE_OVERRIDE=
```

```
ftp://ftp.FreeBSD.org/pub/FreeBSD/ports/distfiles/fetch
```

```
MASTER_SITE ftp.FreeBSD.org/pub/FreeBSD/ports/distfiles/
```

Note:

[www/mozilla](http://www.mozilla.com), [security/gnupg](http://security.gnupg.org) [mail/sylpheed-claws](http://mail.sylpheed-claws.org)가

4.5.2.3

```

가 distfiles ( ).
PORTSDIR PREFIX

```

make PORTSDIR=/usr/home/example/ports install

/usr/home/example/ports

/usr/local

make PREFIX=/usr/home/example/local install

/usr/ports

/usr/home/example/local

make PORTSDIR =../ports PREFIX=../local install

(
).

4.5.2.4 imake

imake (X) , PREFIX
/usr/X11R6 Perl
PREFIX Perl PREFIX 가
가

4.5.3

Isof). (/usr/ports/sysutils/Isof)
Isof 가 . make deinstall

```
# cd /usr/ports/sysutils/Isof [ ]
# make deinstall [ ]
====> Deinstalling for Isof-4.57
```

```
lsof 가 . /usr/ports/sysutils/lsof
make reinstall .
```

make reinstall

```
make clean          make deinstall  make reinstall
(clean)             ,                pkg_delete(1)
```

4.5.4

```
make clean
distfiles          tar
refuse
CVSup
```

4.5.5

```
(
)
```

sysutils/portupgrade

make install clean

```
# cd /usr/ports/sysutils/portupgrade
# make install
# /usr/local/sbin/pkgdb -F ❶
---> Checking the package registry database
[Rebuilding the pkgdb <format:bdb1_btree> in /var/db/pkg ... - 13 packages found (-0
+13) .....done]

# /usr/local/sbin/portupgrade -a ❷
```

```
[Updating the portsdb <format:bdb1_btree> in /usr/ports ... - 10796 port entries  
found .....1000.....2000.....3000.....4000.....5000.....6000.....7000....  
.....8000.....9000.....10000..... done]
```

❶ 가 pkgdb -F

/var/.db/pkg

❷ portupgrade -a INDEX

portupgrade

portupgrade 가 가 , 가

가 portupgrade *pkgname*

pkgname portupgrade 가

-r , -R

-P

distfile -F portupgrade(1)

Note: 가 , pkgdb -F

(portupgrade

가).

portupgrade

portupgrade ports/sysutils

가 가

4.6

()

```

가?
.
:
.
• pkg_info(1)
FooPackage 1.0.0 가
.
# pkg_info -L foopackage-1.0.0 | less
man/ /etc
가 doc/ 가
.
. foopackage
가
.
# pkg_info | grep -i foopackage
foopackage
.
• 가 man(1)
가
.
• 가 가
가
.
# pkg_info foopackage-1.0.0
WWW: URL
.
• /usr/local/etc/rc.d
가
.

```

4.7

가 가 :

1. ! Porters Handbook (http://www.freebsd.org/doc/en_US.ISO8859-1/books/porters-handbook/index.html) "Ports"

2. . make maintainer
Makefiles (Makefile
\$FreeBSD:) 가
send-pr(1)

3. 가 FTP " "
ftp.FreeBSD.org
(<ftp://ftp.FreeBSD.org/pub/FreeBSD/ports/packages/>), 가
!
pkg_add(1)