

#####

#####

#####: 43126

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2012 #####

#####.

#####, #####, #####, #386, #486, #####, #####,

#####.

#####, #####64, ###
#####,
#####,
#####.

#####.
#####,
#####.

2013#11#07 ###

#####

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```
### # ##### ## ##### ##### ##### ## ##### #  
##### # # #####, # ##### ## Ports # ##### ##### # # #  
#Clusters ## #####. ##### # ##### cluster ## # # http://  
pointyhat.FreeBSD.org.
```



```
##### ### ##### ##### ##### ## ##### #####
### ##### ## ##### ### ## # ##### ## ##### ##
Ports
```

```
# ##### # /var/
portbuild. # #####, #####
##### # $[arch] #####
##### (#64, #64, #, #64®, # $[branch]
##### branch (####) ##### (7, 7###,
8, 8####, 9, 9####, 10, 10####).
```



```
### ## ##### ##### ## ##### 4, 5 ## 6, #
##### # #####
```

```
#####  
#####
```

```
## scripts ##  
## base/projects/portbuild/scripts/.
```

```
#####  
#####;  
#####:
```

- ##### -STABLE
- ##### -CURRENT
- #####

1.2.

```
## 2010, ## scripts ##### pointyhat ##  
##### (#####). ##### 2010, #####  
##### hosts #####. #####  
#####:
```

- ##### string pointyhat #####
- ##### (#####
#####) (#####)
- ##### hostname ##### buildid (#####
#####.)
- ##### scripts ##### links
#####
- ##### scripts #####

```
#####  
##### scripts, #####  
##### novo código base: ##### antigo código base:.
```



####

```
#### 2010, # pointyhat #####  
# #####, ### # #####  
#####.
```

```
##### ##  
#####
```



####

```
#####  
#####  
#####
```

2.

```
## ##### #386™ ##### # pointyhat, ##### # boot ##  
# ##### ## (## conectados); ##### ## (## desconectados) #####  
##### ## boot ## ## hostpxe. ## ##  
## ## boot #####
```

```
# cluster #####, ##### # rsync, ## ## (# ## ports  
# ##, bindist tarballs, scripts, ##.) ##  
##### ## ## portbuild #####  
nullfs ##### chroot.
```

```
# ##### ports-$(arch) ##### ## ## ##(1) #####  
###. ## # sudo # portbuild.hostname.conf #####
```

```
# script scripts/allgohans ##### ## ## ##  
$(arch).
```

```
# script scripts/checkmachines # ##### ## ## ## cluster  
## ##, # ##### ## ## ports. ## script ##  
##### # ## ## ##. # ## script ##  
(## ##, pointyhat) ##### ## loop ## ##(1).
```

3. ##### Chroot

```
# ##### # ##### # ## ##### chroot, ##### script  
portbuild ##### ${arch}/${branch}/builds/${buildid}/bindist.tar.
```

```
# ##### # build world # ##### ## ## ##  
${branch}/builds/${buildid}/src/ # # ## ${worldid}. # ##  
##### ## ## ## -nocvs #####
```

```
/var/portbuild# scripts/makeworld ${arch} ${branch} ${buildid} [-nocvs]
```

```
#####  
#####
```

```
# ##### bindist.tar # ##### # world, #####, ##### script  
mkbindist. ##### root #####:
```

```
/var/portbuild# scripts/mkbindist ${arch} ${branch} ${buildid}
```

```
## tarballs ## ##### ${arch}/clients.
```

```
# ##### bindist.tar # ##### # #####  
#####, # ## script dopackages.
```

3.1.

```
##### #, # # ${buildid} ##### latest, #####  
#####.
```

4.

```
(# ##### # #####)
```

```
##### # make.conf  
##/## src.conf, ##### # ${arch}/${branch}/builds/${buildid}/make.conf.server # ${arch}/${branch}/  
builds/${buildid}/src.conf.server, #####. #####, # ##  
#####.
```

```
## #, # # # make.conf ## lado do cliente, #####  
##### # ${arch}/${branch}/builds/${buildid}/make.conf.client.
```



####

```
##### #  
##### make.conf, # ${arch}/${branch}/builds/${buildid}/  
make.conf.client ##### adicionado ## make.conf, #  
##### # ${arch}/${branch}/builds/${buildid}/make.conf.server.
```



####

```
### ##### # ${arch}/  
${branch}/builds/${buildid}/src.conf.client (# #####?).
```

```
##### 1. ##### ## make.conf.target #####
# #####
```

```
(##### ##, ## #####) #####, #####, #####)
```

```
RUBY_DEFAULT_VER= 1.9
```

```
##### 2. ##### ## make.conf.target #####
#####
```

```
(##### ##, ## #####) #####, #####, #####)
#####)
```

```
.if -!defined(CC) -|| ${CC} == -"cc"
CC=clang
.endif
.if -!defined(CXX) -|| ${CXX} == -"c++"
CXX=clang++
.endif
.if -!defined(CPP) -|| ${CPP} == -"cpp"
CPP=clang-cpp
.endif
# Don't die on warnings
NO_WERROR=
WERROR=
```

```
##### 3. ##### ## make.conf.server #####
```

```
WITH_PKGNG=yes
PKG_BIN=/usr/local/sbin/pkg
```

```
##### 4. ##### ## make.conf.client ##### #####  
WITH_PKGNG=yes
```

```
##### 5. ##### ## src.conf.server ##### #####
### ##### ##### ## ##### ##### ## #####
WITH_BSD_SORT=yes
```

```
dopackages.7 ${arch} ${buildid} [-options]
```

```
#### # # # # # dopackages.wrapper #####, ## ##### ## links #####. ##  
#####:
```

dopackages.wrapper *{arch}* *{branch}* *{buildid}* [-options]

```
##### latest ##### # buildid.
```

```
[options] ##### ### ####, ### ## ####, ### ##### #####:
```

- 8

#####

- -continue # #####
#####
- -incremental # ##### INDEX #####
log ports #####
#####. ##### ports #####
- -cdrom # ##### NO_CDROM # disfiles #####
- -nobuild # #####
- -noindex # ##### INDEX #####
- -noduds # ##### duds (ports #####
IGNORE, NO_PACKAGE, ##.)
- -nochecksubdirs # ##### SUBDIRS ##### ports #####
#####. (#####).
- -trybroken # ##### ports ##### BROKEN (#####
clusters ##64/#386™ #####

clusters #####
ports ##### BROKEN).



####

-trybroken, ##### -
fetch-original (#, ##, -unlimited-errors).

- -nosrc # ##### src # ##### snapshot ##
#####
- -srcvcs # ##### src # ##### snapshot ##
cvs update.
- -noports # ##### ports # ##### snapshot ##
#####

- -portscvs # ### ##### # ##### ## ports # ##### ## snapshot ## ##, ## ## ##### ##
cvs update.
- -norestr # ### ##### ##### ports ##### ## RESTRICTED.
- -nolistcheck # ### ##### ##### ## ports ##### ##### ## ## ##
#####.
- -nodistfiles # ### ##### ## distfiles ### ##### ## make checksum ##### ## ##
upload ##### # ftp-master.
- -fetch-original # ##### # distfile # ##### ## MASTER_SITES #####, ## ## ## ftp-master.
- -unlimited-errors (##### ## ##### #####) # ##### # ##### ## #####
#####. ##### ## ##### ##
-restart ## ## ##### ## ##
#####, ## ##### ## ## -trybroken. # # ##### ## ##.

```
# ##### ## ##### -restart, -continue, ## -finish, ## links ##### ## ##
##### ##### #####. ##### #, # link ##### ## previous
##### ##; # ##### ## ## ## link ##### ## previous; # #
##### ## ## ## ## ## link ## latest/.
```

```
## # ##### ##### ## ##### ##, ##### ## ##### ##.
## ## ## #####, ## ## ## # ##### -nocleanup, ##### ## ##
#####:
```

```
build cleanup ${arch} ${branch} ${buildid} -full
```

```
## ##### errors/, logs/, packages/, # ##### ## ##, ## ##### ## scripts. ## ##
##### ## ## ##, ##### ## ## # ports/distfiles/. ## ## ##
latest; ## # ## ## ## ##.
```



####

```
# dosetupnodes ##### # ##### ## script dopackages
## ## ## -restart, ## ## ## ## ##
##### # ##### ##### ## ## ## ##
# ##### ## #####. ##### ## dosetupnode ##
#### ## ## ## ## ## ## ##
#####. (#### # ## ##.)
```

```
##### ## # ##### ## ##### ## # ##### ## ${arch} #####
##### ##### ${arch} ## ## ##### ## ##### ## ##.
```



```
##### 7. ##### ## ##### ##### ##64#8
##### ## #####
```

```
dopackages.8 amd64 -nosrc -noports -norestr -continue -noindex -noduds -nofinish
```

```
dopackages.wrapper amd64 8 -nosrc -noports -norestr -continue -noindex -noduds -nofinish
```

```
##### 8. ##### # ##### ## ##
##### ##64#7 #####
```

```
dopackages.7 sparc64 -finish
```

```
dopackages.wrapper sparc64 7 -finish
```

```
####: ##### # ##### # ##### dopackages ##### ## screen(1).
```

5.2. # ##### build

```
#### ##### ##### ## ##### ## ##### ## #####
##### ##### #####. #### # ##### ## # ##### build.
#### ##### ##### ##### #####:
```

- build create arch branch [newid] # ##### ## newid (## ## timestamp, ## ## ## ##). ##
branch ## ## ## ##. (####:
newid ##### ## ## latest ## ## ## ##.)
- build clone arch branch oldid [newid] # ##### ## oldid ##### # newid (## ## timestamp, ##
##).
- build srcupdate arch branch buildid # ##### # ##### src ## ## ## snapshot ## ##. ##
-nosrc ##### ## dopackages #####!
- build portupdate arch branch buildid # ##### # ##### ## ports ## ## ## snapshot ## ##.
-noports ##### ## dopackages #####!

5.3. ##### ##

```
##### ##### # ##### ## ##### # ##### ## ##### ##
#####. ##### ## ##### # #####:
```

path/qmanager/packagebuild amd64 7-exp 20080904212103 aclock-0.2.3_2.tbz

#####

3. # qmanager ##### # #####

7.1. #####

```
# ##### # ## ##### # # ##### #  
#####. ##### # ty # # # # #  
##### (# # ##### # ##(1) ##### # # # # #,  
# # ##### ps x #####). #### # # # #  
#### # ##### ty, ### # # # # #  
##### ps, # # # # #, ps -t p1 ##### # # # # # 1. # # #  
##### # # # # #, # # # # # # # # # # # # # # kill  
-t pts/1; # # # # # # kill -HUP, # # # # #, ps -t pts/1 -o pid= | xargs kill -HUP. # # # # #  
##### # p1 #### ty #####.
```

```
# ##### ## ##### ##### make ##### ## ##### ##### ## ## #####
##### ##### ##### (##### ## ps x ##### ##### #####).
```

```
## ##### ## ##### ## ###(1), ## ## ##### ##### ##### ## #####. ##
##### ## ##### dopackages ## ## ##### ## #####. ## ## ##
##### ## ##### pdispatch, ##### ## ## (## #####) ## #####
## ##### ## #####.
```

7.2. #####

```
#####  
##### build cleanup. ###
```

```
% /var/portbuild/scripts/build cleanup i386 8-exp 20080714120411 --full
```

```
## ##### ##### ## ##### ##, ##### ## chroot# ## ##### ##### ## #####
##### ## ##### 24 #####, # ##### ##### ##### ##### ## ## #####
##### # pointyhat ##### ## ##### ##### ##### ##### #####.
```

```
##### , ##### # ##### cat ~/loads/* #### ##### # ##### ## #####  
#####; # ##### ##### # # ##### ## ##### ## ## #####  
##### , # #### ##### ## ##### ## ##### . loads # ##### #  
#### 2 #####. ## ##### ## ps x | grep pdispatch # ## #####  
## ## ## # loads ##### ## ##. ##### ## #####.
```

```
##### amount #####.##
##### script allgohans ##### ##(1) ##
#####:
#####
```

```
ssh -l root gohan24 df
```

```
#### #### #### ## df, #
```

```
allgohans -"umount --f pointyhat.freebsd.org:/var/portbuild/i386/8-exp/ports"
```

```
#####  
#####
```

```
allgohans -"umount --f pointyhat.freebsd.org:/var/portbuild/i386/8-exp/src"
```

```
#####  
#####  
#####  
#####  
#####
```



####

#####:

```
umount: pointyhat.freebsd.org:/var/portbuild/i386/8-exp/ports: statfs: No -  
such file or directory  
umount: pointyhat.freebsd.org:/var/portbuild/i386/8-exp/ports: unknown file -  
system  
umount: Cleanup of -/x/tmp/8-exp/chroot/53837/compat/linux/proc failed!  
/x/tmp/8-exp/chroot/53837/compat/linux/proc: not a file system root directory
```

```
##  
#####  
#####; ##  
#####
```

```
#####  
#####  
#####
```

```
#####  
#####  
#####  
#####
```

```
##  
#####  
#####  
#####
```

7.3. ##### build

```
##### build:
```

- build destroy arch branch # ##### id ## #####.
- build list arch branch # ##### # ##### ids ## #####.
- build upload arch branch # ##### # #####.

8.

```
#####  
#####  
#####
```

```
python path/qmanager/qclient jobs
```

#####

python path/qmanager/qclient status

scripts/stats \${branch} ##### # ##### ## ##### ##### #####
#####.

cat /var/portbuild/%/loads/% ##### # load ### ##### # # #####
#####. ## ##### ## #####
online; ## ##### ##### ##
offline.



####

pdispatch ### # ##### ## ##### ##### # #####, #

#####. # ptimeout.host #####

timeouts. ##### ##, ## ##### 50 ##### pdispatch,
4 ##### **##(1)**, ##### ## 46 #####
pdispatch## ##### ##, ##### ## ## ## #####.

tail -f \${arch}/\${branch}/build.log ### ##### # ##### ##### ## #####.

port #####, # # ##### ## ##### #####
log, ##### ## WRKDIR ##### ## #####
##, ##### ## ##### .keep ## ##### ## port, ##### ##
#####, #####, # ##### # WRKDIR ##### \${arch}/\${branch}/wrkdirs.

#####, ##### ## ##### ## #####
#####.

##, ##### ## # ##### ## ## ##
##.

##(1). ## # ##### ## ##### ## /var/portbuild #####
#####, #####.

http://
pointyhat.FreeBSD.org/errorlogs/packagestats.html. ##### buildenv # #####:

- cvs date # # ##### ## cvsdone. # ## ## ##
cvsdone ##### ##, -exp (#####).
- ##### ## ##### log (latest log)

- ##### ## ##### ## INDEX
- # ##### ##### ## logs ## ##### (build logs)
- # ##### ## ##### ##### (packages)
- # ##### ## ##### (errors)
- # ##### ## ports ##### (####) (##### ##### skipped)
- # ##### missing ##### # ##### ##### # INDEX # ## ##### #####. ## #####
cvs update, ##### ##### ##
#####, # ##### ##### #####. (# script # #####).
- ## ##### ## ##### running # completed ## ##### ##### ## ## **###(1)** ##
build.log.

```
##### ## port ##### # ### ##### ##### ##### ##### ##
##### ##, # ### ## ##### #### ##### (BROKEN). #####
##### ## ##### ##### #####, ##### ## #####.
```

```
##### ports #####  
##### distfiles # ~ftp/pub/  
FreeBSD/distfiles. #####  
#####  
#####  
#####.
```

```
#####  
##### ports # src ##### tag #####  
##### -nocvs # -noportscvs.
```

```
#### ##### ## ##### ## ##### ## ## #####, ### # ##### -
cdrom #### # ##### dopackages.
```

```
## ## ##### ## ##### ## cluster, ## -nodistfiles #### ## distfiles
### #####.
```

```
#### ##### # #####, ##### # ##### ## -restart -fetch-original
#### ##### ## distfiles #####. #####, ### ## ## ##### ## ##
#####, ### ## ##### ## ##### ## #####:
```

```
% cd ${arch}/${branch}
% find distfiles > distfiles-${release}
```

```
#### ##### ## ##### ## ##### ## i386/${branch} ## ##
##### ## cluster.
```

```
#### # ##### ## ##### ## distfiles ## ftp-master. ##### # #####
## ##### ## distfiles ## ##### ## ## ##, #####
##### ## ## ##.
```

```
### ## ## # upload ## distfiles ##### ## ## (### ##), # ##### ##
##### ## ##### ## ## ##. ### ## ##, #####
# script ${arch}/${branch}/cdrom.sh #### ##### ## ## ## ##
##### ## ## ## ## distfiles #####. #####, #####
# ##### ${arch}/${branch}/packages #### ${arch}/${branch}/packages-${release}. ## ## ##
##### ## ## ## ##, ##### # #####
## ## ## ## ## release.
```

```
##### ## ##### ## # #####.### ##### # timing # # ##### ##
##### ## release.
```

11. Upload ###

```
### ## ## # ##### ## ##, ## ##### #/## distfiles ##### ##
##### ## ## ftp-master ##### ## ## ## ## ##. ##
# ##### ## ## ## -nofinish, ##### ## ##
## ##### ## dopackages -finish ##### ## ##
(##### ## ## RESTRICTED ## ## NO_CDROM ## ## ##,
##### ## ## ## INDEX, ##### ## INDEX ## ## ##
##### ## ## ##, # ## ## ## CHECKSUM.MD5); # ## distfiles (#####
## ##### distfiles/.pbtmp #### # ##### distfiles/ # ##### ## distfiles
##### ## RESTRICTED # NO_CDROM).
```

```
# ##### ## ## ## ## scripts restricted.sh #/## cdrom.sh #### #
##### ## dopackages, ##### ## ##. ##### # script restricted.sh ##### ##
```


Patches

rsync #### # *upload* ##### ## #####:

```
# rsync --n --r --v --l --t --p ---delete packages/ portmgr@ftp-master:w/ports/${arch}/${subdir}/ -| tee log
```

distfiles ##### ## ##### script cpdistfiles:

```
# /var/portbuild/scripts/cpdistfiles ${arch} ${branch} ${buildid} [-yesreally] -| tee log2
```

#####.

12. ##### ## Patches

patches ##### ## ##### ## ##### ##
ports (#### #,
bsd.port.mk), ## ##### ##### ## #####. # #####
patches ## branchs #####, #### # 8-exp ##
##64.

#####, # ##### ## patches ##### ## ##### ##
#####, ##### ## ## ## ##### #
ports #### # ##### #, ## #####, ##### ## ## patches. #### #
#####, #### ## ## ##:

```
% cvs --R update --dP > update.out  
% date > cvsdone
```

script dopackages ###. (##### # cvsdone ####
#####, ## ## ## ##.)

update.out #### ##### ## ##### ## ^M, ^C,
^? ## ## ##.

#####, ## ## ## ## ## ## ## ## ## ##
commit ####, ## ## ## ## ## ## ##
commit ##### ## ##.

#####, ##### ## ## ## ##
#####, ##### ## ##, ## ## ## home #####
freefall. ## ## # tmp'; ## ## pointyhat ##### ## -CURRENT,
(## ## ##).

#####, ## ## ## ## ## ## ## branch ##
patches ##### ## ## ## ## 386™ (#####
8). ##### ## ## patches #####,

Patches

```
##### ## ##### ## ## ##### ## ## ##### #####
##### ## commit ## ##### ## patches #####. ##### ## [1] #
# [2] #####, ##### ## ##### ## ## ## branch ## #####:
```

```
% cd -/var/portbuild/i386/8/ports
```



####

```
##### ## ##### ## ## ## cvs update #### #
##### ## ## ## patches #####.
```

```
# ##### ## ## ## branch ## ## ## ##
(##### ## ##):
```

```
% /var/portbuild/scripts/dopackages.8 --noportscvs --nobuild --nocvs --nofinish
```

```
## ##### ## ## ## packages/All. ####
##### ## ## ## ## link ##### ##
## ## link ##### ## ## ## ## ##:
```

```
% cd -/var/portbuild/i386/8/packages/All
% ln -sf -./../Makefile -
% make --k --j<#> <list of packages to build>
```



####

```
# <#> # # ##### ## ##### ## ## ##
##### ## ## ## ## ## /var/portbuild/
i386/mlist, # ##### ## ## ## ## ##
##### ## ## ## ##.
```

```
# ##### ## ##### ## ## ## ## ## ##
## ##### (##### ## #####) ##### ## INDEX. #
PKGSUFFIX (#### #, .### ## .###) # #####.
```

```
#### ## ##### ## ## ## ## ## ##
#####.
```

```
#### ## ##### ## ## ## ## ## ##
##### ## ## #####.
```

```
##### commit ##
#####. ##### commit, ## #####
#####.## #####.#####.###, #####
#####.## #####.## #####
#####.## #####.## #####
#####.## #####.## #####
##### /usr/ports/CHANGES.
```

#####, ### #####, ##### ##### # portmgr.



```
##### # ##### # ##### # #####, # portmgr ### #### ###
##### # # ##### # # ##### #386™ # # amd64. #
#####, ### ##### # ##### # # ##### #
##### tier-2.
```

```
# portmgr #####
#####
```

- ##### ## ###: ##### ##### ## 500### ##### ## # #####
#####.



```
### ##### ## ##### # ##### ## ##### #####
### #####, # ## ##### ##### # #####
### ##### ## 100% ## ##.
```

- `###: # ##### # 2#; # ##### # ## 8# ## ####.` `#####`
`##### ## ##### ##### 512# ## ##.`
- `#####: # ##### ## ##### ## 20# #### # ##### ## ##### # ## 32# ####`
`# #### # swap. # ##### ## ##### ## ##### ## #####`
`# ##### ## geom stripes. ## ##### ## ##### ## ##### ## ## ##`
`#####.`



#####

- ##### ## ##### ## #####: ##### ### ##### ## ##### #####, ## ##### ##
8 ##### ##### ## ##### ##### ## #####
#####.

1. ##### ## hostname #####. ### ## ## ## ## ## ## hostname #####
(### ##### ## ##### ## ### #####).
2. ### #####, # ##### ## ##### ##### ## ## #####
#####: 22 (ssh), 414 (infoseek), # 8649 (ganglia). ## #####
,##### # ##### ## ## ## ssh #####
(####).

```
(####: ## ##### ## ##### ## ### ##### ## ### #####, #### ## ##### ## ###
##### ## ##### ##### ## ##### ## ##### ## #####, ##### ##### #####
##### ##### ssh. #####, #### ##### ##### ##### #####
# ##### ## ##### ## ### firewall.)
```

- [illegible]

- ##### ## ##### # ##### ## -current #
#####. (### ### ## ####) #####
-current, # kernel ## ##
bindist ## ##
scripts.)


```
#####  
#####
```

2. ## ##### pxeboot: #####
#####. #####
#####, /pxeroot/
#####, /pxeroot/\${arch}-\${branch}. ##### DESTDIR.
3. ## #####
(cross-building), ##### TARGET_ARCH=\${arch}.



####

ports #####
#####.

4. ##### # kernel. ##### # GENERIC (##, ##
3.5# # #386™, # PAE).

#####:

options	NULLFS
options	TMPFS

#####:

options	GEOM_CONCAT
options	GEOM_STRIPE
options	SHMMAXPGS=65536
options	SEMMNI=40
options	SEMMNS=240
options	SEMUME=40
options	SEMMNU=120
options	ALT_BREAK_TO_DEBUGGER

PAE, #####

#####:

options	COMPAT_LINUX
options	LINPROCFS

PAE, # 12/09/2011 #####
#####:

nooption	NFSD	# New Network Filesystem Server
options	NFSCIENT	# Network Filesystem Client
options	NFSSERVER	# Network Filesystem Server


```
#####  
#####
```

- ##### cluster:

```
cp -/usr/share/zoneinfo/Etc/UTC etc/localtime
```

- ##### etc/rc.conf #####. (##### pxeboot, #####

#####)

```
#####:
```

```
hostname="${hostname}"  
inetd_enable="YES"  
linux_enable="YES"  
nfs_client_enable="YES"  
ntpd_enable="YES"  
ntpddate_enable="YES"  
ntpddate_flags="north-america.pool.ntp.org"  
sendmail_enable="NONE"  
sshd_enable="YES"  
sshd_program="/usr/local/sbin/sshd"  
  
gmond_enable="YES"  
squid_enable="YES"  
squid_chdir="/usr2/squid/logs"  
squid_pidfile="/usr2/squid/logs/squid.pid"
```

```
#####:
```

```
vmware_guest_vmmemctl_enable="YES"  
vmware_guest_gueststd_enable="YES"
```

```
#####:
```

```
hostname=""  
ifconfig_em0="DHCP"  
fsck_y_enable="YES"  
  
inetd_enable="YES"  
linux_enable="YES"  
nfs_client_enable="YES"  
sendmail_enable="NONE"  
sshd_enable="YES"  
sshd_program="/usr/local/sbin/sshd"  
  
gmond_enable="YES"  
squid_enable="YES"  
squid_chdir="/usr2/squid/logs"  
squid_pidfile="/usr2/squid/logs/squid.pid"
```

```
# #####(8) não #####
```

```
#### #####, ##### ##### ##### # ##### # ##### # #####, ##
#### # ### ## # /usr2 ##### (# ### ##### # #####
## #####.) # ##### # ## # #####.
```

- ##### # etc/resolv.conf, ## #####.
- ##### # etc/sysctl.conf:

```
9a10,30
> kern.corefile=/usr2/%N.core
> kern.suid_coredump=1
> #debug.witness_ddb=0
> #debug.witness_watch=0
>
> # squid needs a lot of fds (leak?)
> kern.maxfiles=40000
> kern.maxfilesperproc=30000
>
> # Since the NFS root is static we don't need to check frequently for file changes
> # This saves >75% of NFS traffic
> vfs.nfs.access_cache_timeout=300
> debug.debugger_on_panic=1
>
> # For jailing
> security.jail.sysvipc_allowed=1
> security.jail.allow_raw_sockets=1
> security.jail.chflags_allowed=1
> security.jail.enforce_statfs=1
>
> vfs.lookup_shared=1
```

- ## #####, ##### # etc/syslog.conf ##### # ##### ## logs #####
@pointyhat.freebsd.org.

13.4. ##### ## ports

1. ##### ## ##### ports:

```
net/rsync
security/openssh-portable (with HPN on)
security/sudo
sysutils/ganglia-monitor-core (with GMETAD off)
www/squid (with SQUID_AUFS on)
```

```
##### ## ##### ## ##### # meta-port, ## ##### ## ##
#####.
```

2. ##### ## ##### ## usr/local/etc/. # ##### ## ##### ## ## ##

pxeboot.

```
#####  
#####
```



####

```
# #####  
##### # #####  
##### # #####  
##### # #####  
##### # pxeboot #####.
```

#####:

- ##### # usr/local/etc/gmond.conf:

```
21,22c21,22  
< name = -"unspecified"  
< owner = -"unspecified"  
---  
> name = -"${arch} package build cluster"  
> owner = -"portmgr@FreeBSD.org"  
24c24  
< url = -"unspecified"  
---  
> url = -"http://pointyhat.freebsd.org"
```

```
## #####  
(##### = ##), #####  
##### (.71, .72, ##).
```

- ##### # usr/local/etc/rc.d/portbuild.sh, ##### # scratchdir:

```
#!/bin/sh  
#  
# Configure a package build system post-boot  
  
scratchdir=/usr2  
  
ln --sf ${scratchdir}/portbuild -/var/  
  
# Identify builds ready for use  
cd -/var/portbuild/${arch}  
for i in */builds/*; do  
    if [ -f ${i}/.ready - ]; then  
        mkdir -/tmp/.setup-${i##*/}  
    fi  
done  
  
# Flag that we are ready to accept jobs  
touch -/tmp/.boot_finished
```

#####

- ##### # usr/local/etc/squid/squid.conf:

```
288,290c288,290
< #auth_param basic children 5
< #auth_param basic realm Squid proxy-caching web server
< #auth_param basic credentialsttl 2 hours
---
> auth_param basic children 5
> auth_param basic realm Squid proxy-caching web server
> auth_param basic credentialsttl 2 hours
611a612
> acl localnet src 127.0.0.0/255.0.0.0
655a657
> http_access allow localnet
2007a2011
> maximum_object_size 400 MB
2828a2838
> negative_ttl 0 minutes
```

```
##### ##### # usr/local ##### usr2 ## cache_dir, access_log, cache_log, cache_store_log,
pid_filename, netdb_filename, coredump_dir.
```

```
# #####, ##### # ##### ## ##### ## cache_dir, ## ufs ##### aufs (#
##### ## #####).
```

- ##### # ssh: ##### ## ##### ## /etc/ssh ##### /usr/local/etc/ssh # #####
NoneEnabled yes ## sshd_config.
- ##### # usr/local/etc/sudoers:

```
38a39,42
>
> # local changes for package building
> %wheel ALL=(ALL) ALL
> ports-${arch} ALL=(ALL) NOPASSWD: ALL
```

13.5. ##### ##

1. ##### ## ##### port/package ### ##### ##, ### ##, cd /usr2.
2. ##### ## ##:

```
mkdir portbuild
chown ports-${arch}:ports-${arch} portbuild
mkdir pkgbuild
chown ports-${arch}:ports-${arch} pkgbuild
mkdir squid
mkdir squid/cache
mkdir squid/logs
chown --R squid:squid squid
```

3.

```
## ## ##### # ##### ## /var/portbuild ##### ## ###  
#####, ##### ##### ##### ##### # /tmp ## #####  
##### ## ##### ##### ## ##### ## ##### (### # script ###  
##### amd64). ##### ##### ##### ## chroots ##### ## #####  
##### ## ##### # /tmp/boot_finished.
```
4.

```
##### # #####.
```
5.

```
#### ##, #### # ##### ## ##### ## squid:
```

##

####: ##### ## ## ##### ##### #####; ## #####, ## #### ##
##, ##### ##### ## ##### #####
site (### #####, ## /var/portbuild/conf/clients/) # ##### ## link ##### ##.

4. ##### # /var/portbuild/\${arch}/portbuild-\${hostname} ##### ## ## #####
#####. # ##### ##### ##### ## ##### ## /var/portbuild/
\${arch}/portbuild.conf.

#####:

```
disconnected=1
http_proxy="http://localhost:3128/"
squid_dir=/usr2/squid
scratchdir=/usr2/pkgbuild
client_user=ports-${arch}
sudo_cmd="sudo --H"
rsync_gzip=-z

infoseek_host=localhost
infoseek_port=${tunnelled-tcp-port}
```

#####:

```
use_md_swap=1
md_size=9g
use_zfs=1
scp_cmd="/usr/local/bin/scp"
ssh_cmd="/usr/local/bin/ssh"
```

portmgr ##### ## root ##
pointyhat.

1. ##### # ##### ## ##### ## /etc/hosts.allow. (#####, #####
##.)
2. ##### ## ##### data_source ##### /usr/local/etc/gmetad.conf:

data_source "arch/location Package Build Cluster" 30 hostname

gmetad.

13.7. ##### #

portmgr ##### ## ports-arch ##
pointyhat.

1. ##### ## # ssh ##### ##### ssh hostname.


```
#####  
#####
```

```
2. #####  
/var/portbuild/scripts/ #####  
dosetupnode arch major latest hostname. #####  
#####.
```

```
3. ##### telnet hostname portnumber. ##### 414 (#####  
#####) ##### arch  
# osversion; # ##### 8649 ##### XML ## ganglia.
```

```
##### portmgr ##### root ## pointyhat.
```

- ##### # qmanager ##### # ##. #####:

```
python path/qmanager/qclient add name=uniquename arch=arch osversion=osversion numcpus=number  
haszfs=0 online=1 domain=domain primarypool=package pools="package all" maxjobs=1 acl="ports-  
arch,deny_all"
```

14. ##### branch ##

```
##### branch # #####, # #####  
##### branch ##### HEAD. ##  
##### branch anterior:
```

- (#####) ##### # /var/portbuild/conf/server.conf #####
 - ##### *new-branch* ## SRC_BRANCHES.
 - ##### # branch ## # head, ##### # SRC_BRANCH_*branch*_TAG #####
RELENG_*branch*_0.
 - ##### SRC_BRANCH_*new-branch*_TAG=. (#####).
- (#####) ##### # /var/portbuild/updatesnap #####.
- (##### # #####) ##### ##
:

```
zfs create a/snap/src-branch
```

- (#####): #####
src ##### :

```
cvs -Rq --d -/r/ncvs co --d src-branch-r RELENG_branch
```

- (#####): ##### # Tools/
portbuild/portbuild.conf.
- (#####): ##### #
/var/portbuild/arch/portbuild.conf.

```
##### ## branch ### ##### ## ###
##### #####
```

- (#####): ##### # /var/portbuild/scripts/buildenv.
- (#####): ##### ## link ##### ##
var/portbuild/scripts/dopackages ##### /var/portbuild/scripts/dopackages.branch.
- (#####): ##### ## #####
HEAD_BRANCH # NON_HEAD_BRANCHES ## ##### /var/portbuild/scripts/updatesnap.
- (#####): ##### # ##### snap ##
/var/portbuild/scripts/zexpire.
- (#####): ##### ## links ##### ##
/var/portbuild/errorlogs/:

```
ln -s ../arch/branch/builds/latest/bak/errors arch-branch-full
ln -s ../arch/branch/builds/latest/bak/logs arch-branch-full-logs
ln -s ../arch/branch/builds/latest/errors arch-branch-latest
ln -s ../arch/branch/builds/latest/logs arch-branch-latest-logs
ln -s ../arch/branch/builds/latest/bak/packages arch-branch-packages-full
ln -s ../arch/branch/builds/latest/packages arch-branch-packages-latest
```

- ##### # ##### # branch #####:

build create *arch branch*

- ##### # bindist.tar.

```
15. ##### ## branch ### ##### ## ## #####
#####
```

```
##### ## branch ##### ##### ## ### #####, ##### ##### ##### # #####
##### ##### ##### ##### ##### ##### #####.
```

- (#####) ##### /var/portbuild/conf/server.conf #####
 - ##### *old-branch* ##### SRC_BRANCHES.
 - ##### SRC_BRANCH_*old-branch*_TAG =whatever
- (#### # ##### #####): umount a/snap/src-old-branch/src; umount a/snap/src-old-branch; zfs destroy -r a/snap/src-old-branch
- (#### # ##### #####) ##### #####
links ##### /var/portbuild/errorlogs/ #####
 - ##### *-old_branch-failure.html
 - ##### buildlogs *-old_branch-*.logs.txt

#####

- Links ##### *-old_branch-previous*
- Links ##### *-old_branch-latest*

16. #####

2011 # #####
na versão mais antiga suportada ## branch. ## #: ## RELENG-8
#: 8.1, 8.2, 8.3; ## # packages-8-stable ##
8.1.

(End-Of-Life, ## # [#####](#)), ##
(!) ##
#####.

#####:

- ##### # /var/portbuild/conf/server.conf # ## #:
 - ##### # SRC_BRANCH_branch_TAG ##### RELENG_branch_N ## # N # #####
#####.
 - ##### # /var/portbuild/updatesnap #####.
 - ##### # dopackages ## # -nobuild.
 - ##### # [#####](#).
 - ##### # dopackages ## # -nobuild.
- #####

17.



####

#####

- ##### # ##### ports-arch.
- `mkdir -/var/portbuild/arch`

#####

- #### ## ##### ## ##### ##:

```
zfs create --o mountpoint=/a/portbuild/arch a/portbuild/arch
```

- chown ports-arch:portmgr -/var/portbuild/arch;
chmod 755 -/var/portbuild/arch;
cd -/var/portbuild/arch

- #### # ##### # ##### .ssh.

- #### ## ##### ## logs ## ##### # #### ## logs ## #####:

```
mkdir -/dumpster/pointyhat/arch/archive
```



####

```
# ##### ## /dumpster/pointyhat ## ##### #####  
#####. #####, ##### # ##### ##  
/dumpster/pointyhat/arch/archive # #### ## link ##### ##.  
(##### ##.)
```

- #### ## link #### # ##### ## ## ## ##:

```
ln --s -/dumpster/pointyhat/arch/archive archive
```



####

```
## ##### ## ## ## ## ##  
# ##### ports-arch.
```

- ## ##### /var/portbuild/arch #####:

```
mkdir clients
```

- ##### # ##### clients #### ## #####.

- mkdir loads

- mkdir lockfiles

- #### ## make.conf #####. ## ##### ## ## ##:

```
#####  
#####
```

```
ln -./make.conf -./make.conf
```

- ##### mlist.
- (#####
#####):

```
cc pnohang.c --o pnohang-arch
```

- ##### portbuild.conf #
#####.
- ##### portbuild.machinename.conf #####.

```
cd -.ssh && ssh-keygen
```

- ##### .ssh/config #####
- #####:

```
mkdir -/var/portbuild/conf/arch
```

- ##### scripts dotunnel.* #####.



```
#####  
#####:
```

- #####:

```
python path/qmanager/qclient add_acl name=ports-arch uidlist=ports-arch gidlist=portmgr sense=1
```

- (#####
SUPPORTED_ARCHS ##### /var/portbuild/arch/server.conf.
- (#####
/var/portbuild/scripts/buildenv.
- ##### arch ##### /var/portbuild/scripts/zbackup #
/var/portbuild/scripts/zexpire.
- (#####
branch: ##### links ##### /var/portbuild/
errorlogs/:

```
ln --s -./arch/branch/builds/latest/bak/errors arch-branch-full
```

```
#### ##### ## ## ##  
(##### ## #####)
```

```
In --s ../arch/branch/builds/latest/bak/logs arch-branch-full-logs  
In --s ../arch/branch/builds/latest/errors arch-branch-latest  
In --s ../arch/branch/builds/latest/logs arch-branch-latest-logs  
In --s ../arch/branch/builds/latest/bak/packages arch-branch-packages-full  
In --s ../arch/branch/builds/latest/packages arch-branch-packages-latest
```

- ##### links ##### # ##### ## ##### /var/
portbuild/errorlogs/:

```
In --s ../arch/archive/buildlogs arch-buildlogs  
In --s ../arch/archive/errorlogs arch-errorlogs
```



####

ports-arch:

- ##### branch ## ## ##, ##### # #####:
- ##### # ##### # branch ##:

```
build create arch branch
```

- ##### # bindist.tar.



####

#####:

- (##### ## ## # ##### # ##): ## ## ## # #####
#: ##### # #####
/var/portbuild/scripts/dopackagestats.
- ##### ## ## arch ##### # /var/portbuild/scripts/dologs ## crontab ##
##. (### # ## #####)

18. ##### ## ## ## (#####
#####)

#####.

##, ##### # ## ##### ## #####.

```
#####  
#####
```

18.1.

- #####.
- ##### ports-\$(arch).
wheel. ##### 's' #####.
ports portmgr.
- ##### # /home/ports-\$(arch)/.ssh/ # # # #
authorized_keys.
- ##### # /etc/.ssh/.
- ##### # /boot/loader.conf:

```
console="vidconsole,comconsole"
```
- ##### # /etc/sysctl.conf:

```
kern.maxfiles=40000  
kern.maxfilesperproc=38000
```
- ##### # /etc/ttys:

```
ttyu0 -"/usr/libexec/getty std.9600" vt100 on secure
```
- #####.

18.2.

- ##### a # # # # # /a:

```
# zpool create a mirror da1 da2 mirror da3 da4 mirror da5 da6 mirror da7 da8
```
- ##### portbuild:

```
# mkdir -p -/a/portbuild  
# cd -/a/portbuild  
# chown portmgr:portmgr -.  
# chmod 775 -.
```
- #####.

18.3. ##### src

- #####.

18.4. ##### ports

- ##### ports (#####) #####:

```
databases/py-pysqlite23
```

#####

```
databases/py-sqlalchemy
devel/git (WITH_SVN)
devel/py-configobj
devel/py-setuptools
devel/subversion
net/nc
net/rsync
sysutils/ganglia-monitor-core (with GMETAD off)
sysutils/ganglia-webfrontend (WITHOUT_X11)
www/apache22 (with EXT_FILTER and THREADS)
```

#####:

```
databases/sqlite3
lang/perl-5.12
lang/python27
```

ports (## ##### ##### #####) ## #####
#####:

```
benchmarks/bonnie++
devel/ccache
mail/postfix
net/isc-dhcp41-server
ports-mgmt/pkg_cutleaves
ports-mgmt/pkg_tree
ports-mgmt/portaudit
ports-mgmt/portmaster
security/sudo
shells/bash
shells/zsh
sysutils/screen
sysutils/smartmontools
```

2. ##### # ##### ##### # #####: (##### # ### #####).

18.5. #####

- ##### # ### #####.

19. ##### ##### ##### ##### ## #####

(### #####, ## panic ##### # ##### ##
#####, ##.), ##### ##### ## ##### #####:

- ##### # ##### # # ##### ## ##### (### #####, ##### ##### ## ##### ## ##
#####) ## /var/portbuild/\${arch}/reboots
- ##### ## ##### ##### #386, ##### # ##### ##### # ##### /SCRUB ## nfsroot (##
#####, /a/nfs/8.dir1/SCRUB) # #####. ##### ## ##### ## dd if=/dev/zero of=/dev/ad0 #

#, ###
#####. #### # ## #####

#####.



####

```
#### # blade #386, ##### # #####  
# ##### # blade #### # ##### # #####  
##### #, ##### #.
```

```
##### ## ##### ##### ## ##### ## ## ##### ## ##### ## #####
##### ## ##### ## ##### (## #####, ## ##### ##64) #####
##### ## ## #####.
```

- `## # #####, ##### # #####. #####
mlist # (#### #) ##### # smartctl ## #####:`

```
smartctl --t long -/dev/ad0
```

30 #####:

```
gohan51# smartctl --t long -/dev/ad0
smartctl version 5.38 [i386-portbld-freebsd8.0] Copyright (C) 2002-8
Bruce Allen
Home page is http://smartmontools.sourceforge.net/
```

START OF OFFLINE IMMEDIATE AND SELF-TEST SECTION

Sending command: -"Execute SMART Extended self-test routine immediately in off-line mode".
Drive command -"Execute SMART Extended self-test routine immediately in off-line mode" -
successful.

Testing has begun.

Please wait 31 minutes for test to complete.

Test will complete after Fri Jul 4 03:59:56 2008

Use `smartctl --X` to abort test.

```
##### # ##### ##### #####, ##### # ##### smartctl -a /dev/ad0 #####
##### # ##### ## #####:
```

```
# SMART Self-test log structure revision number 1
# Num Test_Description      Status              Remaining
LifeTime(hours) LBA_of_first_error
# 1 Extended offline    Completed: read failure     80%    15252   319286
```

```

##### ##### ##
#####
### ##### #####, ##### ## log ### ##### ##### ##
#####. # ##### # ##### ##### ## ## ##### ## #####
##### ## ##### (### ##### ## #####).

##### ## #####, ### #####, ##### ## ##### ## cluster, ### ##
#####.

```