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#####: [43126](#)

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##### ## ## #####-#####  
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#####, #####, #386, #486, #####, #####  
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2013#11#07 ### #####.

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1. ##### ..... 2
2. ##### ..... 2
3. ##### ..... 2

4. #####: ##### & ##### .....	3
5. ### ##### ##### .....	5
6. ##### .....	10
7. ##### .....	14

Übersetzt von Björn Heidotting.

## 1. #####

##### ##### ##### ##### ## ### #####.

## 2. #####

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 ##### #####. ### ##### #####  
 ##### ##### ##### ##### #####. ###  
 ##### #####, ##### #####—  
 ##### #####, ##### #####  
 ##### #####. ## #####, #####  
 ##### #####, ##### #####—  
 #####, #####. ##### #####  
 ##### #####.

## 3. #####

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



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

- ### ##### 4 ## #####. #####  
 ##### 7.1 ## 7.2. ###  
 #####.

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

4. #####: ##### & #####

```
% svn co http://svn.freebsd.org/base/user/cperciva/freebsd-update-build freebsd-update-server
```

```
##### build.conf, #####  
#####.
```

```
# Main configuration file for FreeBSD Update builds. The
# release-specific configuration data is lower down in
# the scripts tree.

# Location from which to fetch releases
export FTP=ftp://ftp2.freebsd.org/pub/FreeBSD/releases❶

# Host platform
export HOSTPLATFORM=`uname -m`

# Host name to use inside jails
export BUILDHOSTNAME=${HOSTPLATFORM}-builder.daemonology.net❷

# Location of SSH key
export SSHKEY=/root/.ssh/id_dsa❸

# SSH account into which files are uploaded
MASTERACCT=builder@wadham.daemonology.net❹

# Directory into which files are uploaded
MASTERDIR=update-master.freebsd.org❺
```

#####: ##### & #####

❶ #####, ##### (##### fetchiso) ## scripts/build.subr  
#####. #####. #####. #####. #####  
#####, #####(1) #####, #####—  
#####.

##### fetchiso) #####, #####—  
##### build.subr ## #####  
## scripts/RELEASE/ARCHITECTURE/build.subr #####  
#####.

❷ #####. #####  
#####:

```
% uname -v
```

❸ #####. ##  
##### ssh-keygen -t dsa #####. ##—  
#####; #####  
##### SSHKEY #####.

#####(1) #####  
#####—  
#####.

❹ #####.

❺ #####, ## #####—  
#####.

##### build.conf, #####  
##### #386 #####. #####  
#####—  
#####64:

1. #####64:

```
% mkdir -p /usr/local/freebsd-update-server/scripts/7.2-RELEASE/amd64
```

2. ##### build.conf ## #####. #####—  
##### 7.2##### ##64 #####  
#####:

```
# SHA256 hash of RELEASE disc1.iso image.
```

```
export RELH=1ea1f6f652d7c5f5eab7ef9f8edbed50cb664b08ed761850f95f48e86cc71ef5❶
```

```
# Components of the world, source, and kernels
```

```
export WORLDPARTS="base catpages dict doc games info manpages proflibs lib32"
```

```
export SOURCEPARTS="base bin contrib crypto etc games gnu include krb5 \
```

```
lib libexec release rescue sbin secure share sys tools \
```

```
ubin usbin cddl"
```

```
export KERNELPARTS="generic"
```

```
# EOL date
export EOL=1275289200②
```

```
% date --j -f -'%Y%m%d-%H%M%S' -'20090401-000000' -'+%s'
```

### #####



#####

#####  
#####  
#####  
#####  
#####

## #####

```
# cd /usr/local/freebsd-update-server
# sh scripts/init.sh amd64 7.2-RELEASE
```

#### ##### *ersten* #####.

```
# sh scripts/init.sh amd64 7.2-RELEASE
```

```
Mon Aug 24 16:04:36 PDT 2009 Starting fetch for FreeBSD/amd64 7.2-RELEASE
/usr/local/freebsd-update-server/work/7.2-RELEASE100% of 588 MB 359 kBps 00m00s
Mon Aug 24 16:32:38 PDT 2009 Verifying disc1 hash for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 16:32:44 PDT 2009 Extracting components for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 16:34:05 PDT 2009 Constructing world+src image for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 16:35:57 PDT 2009 Extracting world+src for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 23:36:24 UTC 2009 Building world for FreeBSD/amd64 7.2-RELEASE
Tue Aug 25 00:31:29 UTC 2009 Distributing world for FreeBSD/amd64 7.2-RELEASE
Tue Aug 25 00:32:36 UTC 2009 Building and distributing kernels for FreeBSD/amd64 7.2-RELEASE
Tue Aug 25 00:44:44 UTC 2009 Constructing world components for FreeBSD/amd64 7.2-RELEASE
Tue Aug 25 00:44:56 UTC 2009 Distributing source for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 17:46:18 PDT 2009 Moving components into staging area for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 17:46:33 PDT 2009 Identifying extra documentation for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 17:47:13 PDT 2009 Extracting extra docs for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 17:47:18 PDT 2009 Indexing release for FreeBSD/amd64 7.2-RELEASE
Mon Aug 24 17:50:44 PDT 2009 Indexing world0 for FreeBSD/amd64 7.2-RELEASE
```

Files built but not released:  
Files released but not built:  
Files which differ by more than contents:  
Files which differ between release and build:  
kernel|generic|GENERIC/hptr.ko  
kernel|generic|GENERIC/kernel  
src|sys|/sys/conf/newvers.sh  
world|base|boot/loader  
world|base|boot/pxeboot  
world|base|etc/mail/freebsd.cf  
world|base|etc/mail/freebsd.submit.cf  
world|base|etc/mail/sendmail.cf  
world|base|etc/mail/submit.cf  
world|base|lib/libcrypto.so.5  
world|base|usr/bin/ntp  
world|base|usr/lib/libalias.a

#####  
#####

world|base|usr|lib|libalias\_cuseeme.a  
world|base|usr|lib|libalias\_dummy.a  
world|base|usr|lib|libalias\_ftp.a  
...

#####  
##### scripts/build.subr.



#####

#####  
#####(8), #####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####  
#####

Mon Aug 24 17:54:07 PDT 2009 Extracting world+src for FreeBSD/amd64 7.2-RELEASE  
Wed Sep 29 00:54:34 UTC 2010 Building world for FreeBSD/amd64 7.2-RELEASE  
Wed Sep 29 01:49:42 UTC 2010 Distributing world for FreeBSD/amd64 7.2-RELEASE  
Wed Sep 29 01:50:50 UTC 2010 Building and distributing kernels for FreeBSD/amd64 7.2-RELEASE  
Wed Sep 29 02:02:56 UTC 2010 Constructing world components for FreeBSD/amd64 7.2-RELEASE  
Wed Sep 29 02:03:08 UTC 2010 Distributing source for FreeBSD/amd64 7.2-RELEASE  
Tue Sep 28 19:04:31 PDT 2010 Moving components into staging area for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:04:46 PDT 2009 Extracting extra docs for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:04:51 PDT 2009 Indexing world1 for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:08:04 PDT 2009 Locating build stamps for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:10:19 PDT 2009 Cleaning staging area for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:10:19 PDT 2009 Preparing to copy files into staging area for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 19:10:20 PDT 2009 Copying data files into staging area for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 12:16:57 PDT 2009 Copying metadata files into staging area for FreeBSD/amd64 7.2-RELEASE  
Mon Aug 24 12:16:59 PDT 2009 Constructing metadata index and tag for FreeBSD/amd64 7.2-RELEASE

Files found which include build stamps:  
kernel|generic|GENERIC|hptrr.ko  
kernel|generic|GENERIC|kernel  
world|base|boot|loader  
world|base|boot|pxeboot  
world|base|etc|mail|freebsd.cf  
world|base|etc|mail|freebsd.submit.cf

### ##### ##### #####

```
world|base/etc/mail/sendmail.cf
world|base/etc/mail/submit.cf
world|base/lib/libcrypto.so.5
world|base/usr/bin/ntpq
world|base/usr/include/osreldate.h
world|base/usr/lib/libalias.a
world|base/usr/lib/libalias_cuseeme.a
world|base/usr/lib/libalias_dummy.a
world|base/usr/lib/libalias_ftp.a
...
```

##### ##### ##### #####.

```
Values of build stamps, excluding library archive headers:
v1.2 (Aug 25 2009 00:40:36)
v1.2 (Aug 25 2009 00:38:22)
@(#)FreeBSD 7.2-RELEASE #0: Tue Aug 25 00:38:29 UTC 2009
FreeBSD 7.2-RELEASE #0: Tue Aug 25 00:38:29 UTC 2009
  root@server.myhost.com:/usr/obj/usr/src/sys/GENERIC
7.2-RELEASE
Mon Aug 24 23:55:25 UTC 2009
Mon Aug 24 23:55:25 UTC 2009
##### built by root@server.myhost.com on Tue Aug 25 00:16:15 UTC 2009
##### built by root@server.myhost.com on Tue Aug 25 00:16:15 UTC 2009
##### built by root@server.myhost.com on Tue Aug 25 00:16:15 UTC 2009
##### built by root@server.myhost.com on Tue Aug 25 00:16:15 UTC 2009
Mon Aug 24 23:46:47 UTC 2009
ntpq 4.2.4p5-a Mon Aug 24 23:55:53 UTC 2009 (1)
* Copyright (c) 1992-2009 The FreeBSD Project.
Mon Aug 24 23:46:47 UTC 2009
Mon Aug 24 23:55:40 UTC 2009
Aug 25 2009
ntpd 4.2.4p5-a Mon Aug 24 23:55:52 UTC 2009 (1)
ntpdate 4.2.4p5-a Mon Aug 24 23:55:53 UTC 2009 (1)
ntpd 4.2.4p5-a Mon Aug 24 23:55:53 UTC 2009 (1)
Tue Aug 25 00:21:21 UTC 2009
Tue Aug 25 00:21:21 UTC 2009
Tue Aug 25 00:21:21 UTC 2009
Mon Aug 24 23:46:47 UTC 2009
```

```
FreeBSD/amd64 7.2-RELEASE initialization build complete. Please
review the list of build stamps printed above to confirm that
they look sensible, then run
# sh --e approve.sh amd64 7.2-RELEASE
to sign the release.
```

##### ##### #####, ##### ##### #####. ##### #####  
##### ##### ##### ##### ##### USAGE. ##### #####  
##### scripts/approve.sh #####. ##### #####  
##### #####, ## ## ## ## #####  
#####.

```
# cd -/usr/local/freebsd-update-server
```



```
# sh scripts/mountkey.sh
```

```
Wed Aug 26 12:50:06 PDT 2009 Signing build for FreeBSD/amd64 7.2-RELEASE
Wed Aug 26 12:50:06 PDT 2009 Copying files to patch source directories for FreeBSD/amd64 7.2-RELEASE
Wed Aug 26 12:50:06 PDT 2009 Copying files to upload staging area for FreeBSD/amd64 7.2-RELEASE
Wed Aug 26 12:50:07 PDT 2009 Updating databases for FreeBSD/amd64 7.2-RELEASE
Wed Aug 26 12:50:07 PDT 2009 Cleaning staging area for FreeBSD/amd64 7.2-RELEASE
```

```
# cd -/usr/local/freebsd-update-server
# sh scripts/upload.sh amd64 7.2-RELEASE
```



#####  
#####  
#####  
##### hochgeladene #####.

```
# cd -/usr/local/freebsd-update-server/pub/7.2-RELEASE/amd64
# touch --t 200801010101.01 uploaded
```

```
##### KeyPrint ServerName ## ### /etc/freebsd-update.conf #####  
#####  
#####, #### #####  
###.
```



```
#####  
#### current ##### auf wel-  
ches Sie aktualisieren wollen #####.  
####, ## #####  
#####  
#####  
##### 7.1##### 7.2#####.
```

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

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

```
### ##### ## ## ##### ## init.sh #####.
```

## 6. #### #####

```
##### ##, ##### ## ##### ##### ## ##### #####  
####, ##### ##### #####
```

```
### ##### ## 7.1#####
```

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

- ##### ## ## ##### ##### ## ## ##
- ##### ## ##### ## ## 7.1#####

```
##### ## ## ##### ## /usr/local/  
freebsd-update-server/patches/.
```

```
% mkdir -p /usr/local/freebsd-update-server/patches/7.1-RELEASE/  
% cd /usr/local/freebsd-update-server/patches/7.1-RELEASE
```

```
### ##### ## ## ##### ## ####\(8\). ##### ## ## #####  
##### ## ## ##### ## ##### #####  
##### ##### ## ##### ## ##### ##  
## #####.
```

```
## ## #####, ##### SA-09:12.bind. ##### ##—  
##### ## ##, ## ##, ## ##  
##### ## ## ## ## ## ##, ## ##  
#####, ##### ## ## ##### ## ##—  
###. ## ## ## ## ## ## ## ## ##—  
### ## p7. ##### ## ## ##:
```

```
% cd /usr/local/freebsd-update-server/patches/7.1-RELEASE/; mv bind.patch 7-SA-09:12.bind
```



```
#####
```

```
#### ## ##### ##, #### ##  
#### ## ##### #####  
#### ## ##, ##### ## ##—  
#####
```

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

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



```
#####
```

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

```
## #####  
## scripts/init.sh  
#####.
```

```
# cd -/usr/local/freebsd-update-server  
# sh scripts/diff.sh amd64 7.1-RELEASE 7
```

```
## ##### Diff #####.
```

```
# sh --e scripts/diff.sh amd64 7.1-RELEASE 7  
Wed Aug 26 10:09:59 PDT 2009 Extracting world+src for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 17:10:25 UTC 2009 Building world for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 18:05:11 UTC 2009 Distributing world for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 18:06:16 UTC 2009 Building and distributing kernels for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 18:17:50 UTC 2009 Constructing world components for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 18:18:02 UTC 2009 Distributing source for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 11:19:23 PDT 2009 Moving components into staging area for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 11:19:37 PDT 2009 Extracting extra docs for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 11:19:42 PDT 2009 Indexing world0 for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 11:23:02 PDT 2009 Extracting world+src for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 18:23:29 UTC 2010 Building world for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 19:18:15 UTC 2010 Distributing world for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 19:19:18 UTC 2010 Building and distributing kernels for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 19:30:52 UTC 2010 Constructing world components for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 19:31:03 UTC 2010 Distributing source for FreeBSD/amd64 7.1-RELEASE-p7  
Thu Sep 30 12:32:25 PDT 2010 Moving components into staging area for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 12:32:39 PDT 2009 Extracting extra docs for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 12:32:43 PDT 2009 Indexing world1 for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 12:35:54 PDT 2009 Locating build stamps for FreeBSD/amd64 7.1-RELEASE-p7  
Wed Aug 26 12:36:58 PDT 2009 Reverting changes due to build stamps for FreeBSD/amd64 7.1-RELEASE-p7
```

```

Wed Aug 26 12:37:14 PDT 2009 Cleaning staging area for FreeBSD/amd64 7.1-RELEASE-p7
Wed Aug 26 12:37:14 PDT 2009 Preparing to copy files into staging area for FreeBSD/amd64 7.1-
RELEASE-p7
Wed Aug 26 12:37:15 PDT 2009 Copying data files into staging area for FreeBSD/amd64 7.1-
RELEASE-p7
Wed Aug 26 12:43:23 PDT 2009 Copying metadata files into staging area for FreeBSD/amd64 7.1-
RELEASE-p7
Wed Aug 26 12:43:25 PDT 2009 Constructing metadata index and tag for FreeBSD/amd64 7.1-
RELEASE-p7
...
Files found which include build stamps:
kernel|generic|GENERIC/hpttr.ko
kernel|generic|GENERIC/kernel
world|base|boot/loader
world|base|boot/pxeboot
world|base|etc/mail/freebsd.cf
world|base|etc/mail/freebsd.submit.cf
world|base|etc/mail/sendmail.cf
world|base|etc/mail/submit.cf
world|base|lib/libcrypto.so.5
world|base|usr/bin/ntp
world|base|usr/include/osreldate.h
world|base|usr/lib/libalias.a
world|base|usr/lib/libalias_cuseeme.a
world|base|usr/lib/libalias_dummy.a
world|base|usr/lib/libalias_ftp.a
...
Values of build stamps, excluding library archive headers:
v1.2 (Aug 26 2009 18:13:46)
v1.2 (Aug 26 2009 18:11:44)
@(#)FreeBSD 7.1-RELEASE-p7 #0: Wed Aug 26 18:11:50 UTC 2009
FreeBSD 7.1-RELEASE-p7 #0: Wed Aug 26 18:11:50 UTC 2009
  root@server.myhost.com:/usr/obj/usr/src/sys/GENERIC
7.1-RELEASE-p7
Wed Aug 26 17:29:15 UTC 2009
Wed Aug 26 17:29:15 UTC 2009
##### built by root@server.myhost.com on Wed Aug 26 17:49:58 UTC 2009
##### built by root@server.myhost.com on Wed Aug 26 17:49:58 UTC 2009
##### built by root@server.myhost.com on Wed Aug 26 17:49:58 UTC 2009
##### built by root@server.myhost.com on Wed Aug 26 17:49:58 UTC 2009
Wed Aug 26 17:20:39 UTC 2009
ntp 4.2.4p5-a Wed Aug 26 17:29:42 UTC 2009 (1)
* Copyright (c) 1992-2009 The FreeBSD Project.
Wed Aug 26 17:20:39 UTC 2009
Wed Aug 26 17:29:30 UTC 2009
Aug 26 2009
ntpd 4.2.4p5-a Wed Aug 26 17:29:41 UTC 2009 (1)
ntpdate 4.2.4p5-a Wed Aug 26 17:29:42 UTC 2009 (1)
ntpd 4.2.4p5-a Wed Aug 26 17:29:42 UTC 2009 (1)
Wed Aug 26 17:55:02 UTC 2009
Wed Aug 26 17:55:02 UTC 2009
Wed Aug 26 17:55:02 UTC 2009
Wed Aug 26 17:20:39 UTC 2009

```

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

```
...
```

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

New updates:

```
kernel|generic|/GENERIC/kernel.symbols|f|0|0|0555|0|  
7c8dc176763f96ced0a57fc04e7c1b8d793f27e006dd13e0b499e1474ac47e10|  
kernel|generic|/GENERIC/kernel|f|0|0|0555|0|  
33197e8cf15bbbac263d17f39c153c9d489348c2c534f7ca1120a1183dec67b1|  
kernel|generic|/|d|0|0|0755|0||  
src|base|/|d|0|0|0755|0||  
src|bin|/|d|0|0|0755|0||  
src|cddl|/|d|0|0|0755|0||  
src|contrib|/contrib/bind9/bin/named/update.c|f|0|10000|0644|0|  
4d434abf0983df9bc47435670d307fa882ef4b348ed8ca90928d250f42ea0757|  
src|contrib|/contrib/bind9/lib/dns/openssldsa_link.c|f|0|10000|0644|0|  
c6805c39f3da2a06dd3f163f26c314a4692d4cd9a2d929c0acc88d736324f550|  
src|contrib|/contrib/bind9/lib/dns/opensslrsa_link.c|f|0|10000|0644|0|  
fa0f7417ee9da42cc8d0fd96ad24e7a34125e05b5ae075bd6e3238f1c022a712|  
...  
FreeBSD/amd64 7.1-RELEASE update build complete. Please review  
the list of build stamps printed above and the list of updated  
files to confirm that they look sensible, then run  
# sh --e approve.sh amd64 7.1-RELEASE  
to sign the build.
```

```
#####
```

```
# sh --e scripts/approve.sh amd64 7.1-RELEASE
```

```
Wed Aug 26 12:50:06 PDT 2009 Signing build for FreeBSD/amd64 7.1-RELEASE  
Wed Aug 26 12:50:06 PDT 2009 Copying files to patch source directories for FreeBSD/amd64 7.1-  
RELEASE  
Wed Aug 26 12:50:06 PDT 2009 Copying files to upload staging area for FreeBSD/amd64 7.1-  
RELEASE  
Wed Aug 26 12:50:07 PDT 2009 Updating databases for FreeBSD/amd64 7.1-RELEASE  
Wed Aug 26 12:50:07 PDT 2009 Cleaning staging area for FreeBSD/amd64 7.1-RELEASE
```

```
The FreeBSD/amd64 7.1-RELEASE update build has been signed and is  
ready to be uploaded. Remember to run  
# sh --e umountkey.sh  
to unmount the decrypted key once you have finished signing all  
the new builds.
```

```
#####
```

```
# cd -/usr/local/freebsd-update-server
```

```
# sh scripts/upload.sh amd64 7.1-RELEASE
```

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

## 7. #####

- ##### ## ## ##### ##### ##### ## ## ##### make release #####  
#####, ## ## ##### ##### ## ## ##### #####. ## ##—  
##### ## ## ##### ## ## ## ## #####, ##### ##  
##### ##### ## ## ##### findextradocs (), addextradocs () #####  
## ## ##### ## ## ##### ## fetchiso (), ## scripts/build.subr.  
## ##### ##### ## ## ## ##256(1) ##### ## build.conf ## ## #####—  
## ##### ## ##### ## ## ## ## ##, ## #####  
##### ## #####.

```
# Compare ${WORKDIR}/release and ${WORKDIR}/$1, identify which parts
# of the world|doc subcomponent are missing from the latter, and
# build a tarball out of them.
findextradocs () {
}

# Add extra docs to ${WORKDIR}/$1
addextradocs () {
}
```

- ##### ## ##### ## -j NUMMER ## ## buildworld ## obj ##### ## scripts/build.subr  
##### ## #####, ##### ## ## #####, #####  
#####. ## ##### ## ## ## ## ## ## ## ## ##—  
#####, ## ## ## ## ##### ## ##.

```
# Build the world
log -"Building world"
cd -/usr/src &&
make -j 2 ${COMPATFLAGS} buildworld 2>&1

# Distribute the world
log -"Distributing world"
cd -/usr/src/release &&
make -j 2 obj &&
make ${COMPATFLAGS} release.1 release.2 2>&1
```

- ##### ## ##### ##### ## ## ##### ## ## #####, ##  
##### ## ##### ## ## ##### #####. ## #####  
##### ##### ## ## #####. ##### ## ##  
##### ##### ##### ## ## ##### #####—  
##.

```
_http._tcp.update.myserver.com.      IN SRV  0 2 80  host1.myserver.com.
      SRV  0 1 80  host2.myserver.com.
      SRV  0 0 80  host3.myserver.com.
```