

Αἱεῶὐόαός αἱὐò CVS Repository — ἱ ὀñüðïò ôïõ FreeBSD

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\$FreeBSD: release/8.4.0/el_GR.ISO8859-7/articles/cvs-freebsd/article.xml 39632
2012-10-01 11:56:00Z gabor \$

ΔἱᾱὐἰάεῶēÛ Ἀέῶἑῖῖᾱᾱᾱ © 2001, 2002, 2003 Stijn Hoop

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2012-10-01 11:56:00Z gabor \$

Ὀἱ FreeBSD ἁβἱᾱῆ Ἰᾱᾱ ἑᾱᾱἱ ÷ ðñüìŸîî ἁἱðñῆῆÛ ὀŷἱᾱῖῖ ὀἱῶ FreeBSD Foundation.
ðἱῆῆŸò ἁðü ὀῆò ἑŸἱᾱῆò Þ ὀñŸᾱῆò ἱῆ ἱðἱβᾱð ÷ ñçᾱῖἱðἱῖῖῖᾱῆ ἁðü ὀἱῶ ἑᾱᾱᾱῆᾱᾱᾱᾱŸò Þ ὀἱῶ
ðüῆçðŸò ὀἱῶ ἁῆᾱ ἱᾱ ἁῆᾱῆñβἱῖῖᾱ ὀᾱ ðñἱüἱᾱᾱ ὀἱῶ ἑᾱññἱῖᾱῆ ἁἱðñῆῆÛ ὀŷἱᾱῖᾱ. ¼ðἱῶ ἁððŸò
ἁἱðᾱἱβᾱῖᾱᾱᾱ ὀᾱ ἁððü ὀἱ ἑᾱβἱᾱἱ ἑᾱῆ ἁῆᾱ ὕᾱð ἁðü ἁððŸò ἁἱññβᾱῆ ç ἱἱŸᾱᾱ ἈἱŸðððἱçð ὀἱῶ FreeBSD ὕᾱῆ
ἁβἱᾱῆ ὀῆῆᾱἱἱ ἱᾱ ἁβἱᾱῆ ἁἱðñῆῆÛ ὀŷἱᾱῖᾱ, ἑᾱ ἁᾱβᾱᾱ Ἰᾱᾱ ἁðü ὀᾱ ὀŷἱᾱῖᾱ: “TM” Þ “®”.

Ὀἱ ὐñῆñἱ ἁððü ðᾱñῆᾱñŸᾱῆ ὀᾱ ἁβἱᾱᾱ ὀἱῶ Ἰῆᾱἱᾱ ἁῆᾱ ἱᾱ ἁᾱῆᾱᾱᾱᾱᾱᾱ Ἰᾱᾱ CVS repository ὀἱῶ ÷ ñçᾱῖἱðἱῖῖᾱᾱ
ὀᾱ βᾱῆᾱ ἁñ÷ᾱβᾱ ἁŸᾱᾱᾱ ἁἱῖῖῖῖ (scripts) ἱᾱ ἁððŸò ὀἱῶ ÷ ñçᾱῖἱðἱῖῖᾱᾱ ἑᾱῆ ὀἱ FreeBSD project ὀçç ἁῆῆÞ ὀἱῶ
ἁᾱῆᾱᾱŸᾱᾱᾱ. Ç ὀðᾱῆᾱῆñἱῖῖῖ ὀñἱᾱᾱᾱᾱ Ḳ ÷ ᾱῆ ἁñῆᾱðŸò ðῆᾱἱᾱῆðβἱᾱᾱ Ἰᾱἱᾱῆ ἱῆᾱ ὀððἱðἱῖῖῖῖῖῖ Ḳἱçð CVS
ἁᾱῆᾱᾱŸᾱᾱᾱᾱ, ὕððð ðῆἱ ἑᾱðñᾱñÞ Ḳῆᾱ÷ἱ ðñüᾱᾱᾱᾱᾱ ὀᾱἱ ἁŸἱᾱñἱ ὀἱῶ ἑβᾱῆᾱ ἑᾱῆð ἑᾱῆ ἁððἱᾱᾱᾱ
ðᾱñᾱᾱñÞ ᾱᾱᾱŸᾱñᾱᾱᾱᾱ email ἱᾱ ἑᾱððñŸñᾱῆᾱ ἁῆᾱ ἑŸῆᾱ ἁῆῆᾱÞ ὀᾱἱ ὀçᾱᾱβἱ ἑβᾱῆᾱ (commit).

1 ἈῆᾱᾱñᾱᾱÞ

Ὀᾱ ðᾱñῆᾱᾱᾱᾱᾱ projects ἁῆᾱῆᾱñἱῶ ἑἱᾱῆἱῆἱῖ (free software) ἑᾱῆ ἁñῆ÷ᾱἱ ἑβᾱῆᾱ (open source) ÷ ñçᾱῖἱðἱῖῖῖῖ ὀἱ
CVS ὀᾱἱ ὀŷᾱᾱᾱ ἁῆŸᾱ÷ἱῶ ὀἱῶ ἑβᾱῆῆÛ ὀἱῶ. ðᾱñἱῆἱ ὀἱῶ ὀἱ CVS ἁβἱᾱῆ ὀἱῆŸ ἑᾱῆἱ ὀᾱ ἁððἱᾱ ὀἱἱ ὀñŸᾱ Ḳ ÷ ᾱῆ ἑῆ ἁððü ὀἱ
ἱᾱñβᾱῆἱ ὀἱῶ ὀᾱ ἁῆᾱᾱᾱᾱᾱ ἑᾱῆ ἁᾱᾱἱᾱᾱ. ἱῆᾱ ἁðü ἁððŸò ὀῆᾱ ἁᾱᾱἱᾱᾱ ἁβἱᾱῆ ὀἱ ὕᾱῆ ç ἑἱῖῖÞ ÷ ñÞᾱç ἑβᾱῆᾱ ἱðñᾱᾱ
ᾱñβᾱἱᾱ ἱᾱ ἱᾱçᾱβᾱῆ ὀᾱ Ἰᾱἱᾱ ἁῆᾱ÷ᾱῆᾱᾱᾱ ἁðῆŸῆç, ἁῆᾱῆŸ ἁἱ ὀðŸñ÷ᾱῆ ç ἁðῆῆᾱᾱ ἱᾱ ðñἱᾱᾱᾱᾱᾱᾱἱἱ ἱñῆᾱἱ Ḳἱᾱ
ἑñŸᾱᾱᾱ ὀἱῶ ἁŸἱᾱñἱῶ ὀἱῶ ἑβᾱῆᾱ ἁðü ἑἱῖῖÞ ðñüᾱᾱᾱᾱ.

Ç ἱñŸᾱᾱ ἈἱŸððἱçð ὀἱῶ FreeBSD ÷ ñçᾱῖἱðἱῖῖᾱᾱ ἁῆᾱñÞ ὀἱ CVS. ἈῆᾱῆŸᾱῆ ἁðβᾱᾱ ἱῆᾱ ἱᾱᾱŸῆç ἁŸᾱᾱ ἁðü
ðñἱᾱñἱᾱᾱᾱᾱᾱᾱ ἁðü ðἱῆῆŸò ἁῆᾱᾱᾱᾱᾱᾱᾱ ÷ þñᾱð. ἈἱᾱððŸ÷ᾱῆᾱᾱ ἑἱῆðἱᾱ ἱᾱñῆῆŸ ἁñ÷ᾱβᾱ ἁŸᾱᾱ ἁἱῖῖῖῖῖῖ ἁῆᾱ ἱᾱ
ἑŸñἱᾱ ὀçἱ ἁῆᾱ÷ᾱβἱῆᾱ ὀἱῶ repository ðῆἱ ἁŸῆῆç. ðñüᾱᾱᾱ ὀᾱ ἁñ÷ᾱβᾱ ἁððŸò ἁἱᾱᾱñÞῆçῆᾱ ἑᾱῆ ἑᾱñἱῆἱðἱῆῆçῆᾱἱ
ἁðü ὀἱἱ Josef Karthausser <joe@FreeBSD.org> ἁῆᾱ ἱᾱ ἁβἱᾱῆ ðῆἱ ἁŸῆῆἱ ἱᾱ ÷ ñçᾱῖἱðἱῖῖῖῖῖ ἑᾱῆ ὀᾱ ὐῆῆᾱ Ḳñᾱᾱ. Ὀἱ
Ÿñῆñἱ ἁððü ðᾱñῆᾱñŸᾱῆ ἱῆᾱ ἱŸῆἱᾱ ÷ ñÞᾱçð ἁððἱᾱ ὀἱἱ ἱŸñἱ ἁñ÷ᾱβἱᾱ ἁŸᾱᾱ ἁŸᾱᾱᾱ.

[illegible]

2 Đñþôç ÃêáôÜóôáoç

[illegible]

2.1 Áñ÷éêïðïßçóç ôïõ repository

Οἱ ὁηρῶι ὁηὔαιά ὅρῳ ἐὰ ὁηΎθαε ίά εὔίαιά ὑοái οόΠίαιά Ύίá íŸí repository áβίáé ίά ὁάβὀά οóι CVS ίά οἱ
án÷-éêĩðíéΠóái:

```
% cvs -d path-to-repository init
```

Áðöü ëÝáë óöî **CVS** íá äciéiõñãÞóáë öîí öÜêâëî äéá÷äÞñéócò **CVSROOT**, üðîð óðîíááßîíîí üêàð íé ðáñáîíäðñîðîéÞóáëð.

2.2 C iñÜää ôiõ repository

[illegible]

```
# pw groupadd ncvs
```

ÌàòÜ, èà ðñÝðàé íá àèòàéÝóàòà òçí áíòíèÞ chown(8) óðíí öÜèàèí íà ðánÜíàðñí òçí ñÜáá ðíò ìüèèð ðñíòéÝóáòà, èÝòííóáð Ýóóé òçí ñÜáá óòçí ìðíßá áíðèàé ì èáðÜèíàð:

```
# chown -R :ncvs path-to-your-repository
```

Áõôü âíáóöäëβææ üôé êáíáβò äái èà ìðĩñáβ íá ãñÛøæé óôï repository áí äái áíÐêæé óôcí óúóôÐ ñÛäá.

2.3 Ðáßñĩĩĩôáò ôĩĩ ðçãáßĩ êpäééâ

[illegible]

2.4 ÁíóéãñÜöííôáò ôá scripts ôíõ FreeBSD

ἄφωδᾶνα, ἀφωέανῶροισι οἱ ῥαφαὶ ἐπαέέα αἰο οἱ CV\$ROOT εἰοῦῆιαι οἷο FreeBSD οἱ ἀέέου ἰαο repository. Αἱ ἁβωῶα ὀφίεέοι ῶρο ἰα οἱ CVS, βωοῦ ἰα οἰο ὀανῶοαέ αἰο οἱ ἰοαέι ἰα ὀηῖοῶαέβωῶα ἰα εῦἰαῶα import ὀα scripts, ὀα ἰεἱ

[illegible][illegible]

```
% cvs -d path-to-your-repository checkout CVSROOT
% cd CVSROOT
% cp ../CVSROOT-freebsd/* .
% cvs add *
```

[illegible]

2.5 Tá scripts

[illegible]

- [illegible]

ἁἑῖῖ÷ἱῖῖ ἁῖῖῖῖῖ, ὀῖῖῖ ὀῖ **CVS** ἑᾷ ἁῖῖῖῖῖῖῖ ὀῖῖ commit ἱᾷ ὀῖῖῖ÷Ḃῖῖῖ. Ἀᾷῖ ἑᾷ ÷ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ.

- **commitinfo** - ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ÷ Ḃῖῖῖῖῖῖῖῖῖῖ ἁῖῖ ὀῖ **CVS** ὀῖῖ ἱᾷ ἁῖῖῖῖῖῖῖῖ Ḃῖῖῖ script ἱᾷ ἁἑῖῖῖῖῖῖ Ḃῖῖῖ ἁῖῖ ἑῖῖῖῖ commit—ὀῖῖ ἁἑῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ Ḃῖῖῖ ἑᾷῖῖῖῖῖ ὀῖ **commitcheck**. Ἀᾷῖ ἑᾷ ÷ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ.
- **config** - ὀῖ ἁῖῖ÷Ḃῖῖ Ḃῖῖῖῖῖῖῖ ἁἑῖῖ ἁῖῖῖ ὀῖ repository. ἑᾷ Ḃῖῖῖῖῖ ἱᾷ ἑῖῖῖῖῖ ἁἑῖῖῖῖῖ ὀῖ ἁῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖ ὀῖῖ ἁἑῖῖῖῖ Ḃῖῖῖῖῖῖ ἱᾷ ὀῖῖῖῖῖ Ḃῖῖῖῖῖῖῖ. Ḃῖῖῖῖῖῖῖῖ Ḃῖῖῖῖῖῖῖῖ ἁἑᾷ ὀῖῖ ἁἑῖῖῖῖῖ ἁῖῖῖῖῖῖῖ ἁῖῖῖῖῖῖ Ḃῖῖῖ ῖῖῖ ῖῖ ÿ÷ᾷᾷ ὀῖῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἱῖῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖ ὀῖῖ ἁῖῖ÷ἁἑῖῖῖῖῖ ὀῖῖ **CVS**.
- **cvs_acls.pl** - ὀῖ script ἁῖῖῖ ἁἑῖῖῖ÷ἁἑ ὀῖῖ ὀῖῖῖῖῖῖῖ ὀῖῖ **committer**, ἑᾷῖ ἁἑ ἁῖῖῖῖῖῖῖ ἁῖῖῖῖ ἱᾷ ῖῖ÷ἁἑ Ḃῖῖῖῖῖῖῖ ὀῖῖ ἁἑῖῖῖῖ ὀῖῖ ἑḂῖῖῖῖ. Ἀῖῖῖ ἁῖῖῖῖ ἁῖῖῖῖ ἱᾷ ἁῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ.
- **cvsignore** - ὀῖῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἑᾷῖῖῖῖῖῖῖ ὀᾷ ἁῖῖ÷Ḃῖῖ Ḃῖῖ ὀῖ **CVS** ἁᾷῖ ἑᾷ Ḃῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖῖ ὀῖ **checkin** ὀῖῖῖ ὀῖῖ repository. ἱῖῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ ἁἑῖῖῖῖ ἱᾷ ὀῖῖ ἁἑῖῖῖ ὀᾷ Ḃῖῖῖῖῖῖῖῖ. Ḃῖῖῖῖῖῖῖῖ Ḃῖῖῖῖῖῖῖῖ ἁἑᾷ ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἑᾷ ἁῖῖῖῖῖ ὀῖῖ ἁῖῖ÷Ḃῖῖ ὀῖῖ **CVS**.
- **cvswrappers** - ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ÷ Ḃῖῖῖῖῖῖῖῖῖῖ ἁῖῖ ὀῖ **CVS** ἁἑᾷ ὀῖῖ ἁἑῖῖῖῖῖῖῖῖ ὀῖῖ keyword expansion, Ḃ ἁἑᾷ ὀῖ ἁἑῖῖῖῖ ἁῖῖ÷Ḃῖῖ ἑᾷ Ḃῖῖῖῖῖ ἱᾷ ἁἑῖῖῖῖῖῖῖῖῖ Ḃῖῖῖῖῖ Ḃῖῖῖῖῖῖῖῖῖῖ Ḃῖῖῖῖῖῖῖῖῖῖ ὀῖῖ keyword ὀῖῖ ἁῖῖ÷Ḃῖῖ ἁἑῖῖῖῖῖ ἱᾷ ὀῖῖ ἁῖῖῖῖῖῖῖῖ ὀᾷ. Ḃῖῖῖῖῖῖῖῖῖ Ḃῖῖῖῖῖῖῖῖῖῖ ὀῖῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖῖῖ ἱᾷ ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἱῖῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖ ὀῖῖ ἁῖῖ÷ἁἑῖῖῖῖῖ ὀῖῖ **CVS**. ὀῖῖῖῖῖῖῖ Ḃῖῖ ἱᾷ ἁῖῖῖῖῖῖῖ -t ἑᾷῖ -f ἁῖῖ ἁἑῖῖῖῖῖῖ ὀῖῖῖῖ ἁἑᾷ client/server ÷ Ḃῖῖῖ ὀῖῖ **CVS**.
- **edithook** - ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἁᾷῖ ÷ Ḃῖῖῖῖῖῖῖῖῖῖ Ḃῖῖ, ἁἑῖῖ ἁἑῖῖῖῖῖῖῖ ἱᾷ ὀῖῖῖῖ÷ἁἑ ἁἑᾷ ἑὀῖῖῖῖῖῖῖ ἑῖῖῖῖῖ. ἱῖῖῖῖῖῖ ἱᾷ ὀᾷῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ.
- **editinfo** - ὀῖ **CVS** ÷ Ḃῖῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ ἁἑᾷ Ḃῖῖῖῖῖῖ ὀῖῖ log ἱῖῖῖῖῖῖ ἁῖῖῖῖῖ ἁῖῖ ὀᾷ **verifymsg** ἑᾷῖ **logcheck** ἁῖῖ÷Ḃῖῖ. Ἀῖῖῖῖῖῖ ἱᾷ ἁῖῖῖῖῖ ῖῖῖῖ ἁῖῖῖ ἁῖῖῖῖ ἁῖῖῖῖ ὀῖῖ **editinfo** ῖῖ÷ἁἑ ἑῖῖῖῖ Ḃῖῖῖῖῖῖῖ ἱᾷ ὀᾷ commits ἁῖῖ ἱᾷῖῖῖ ἑᾷῖ ἱᾷ ὀᾷ commits Ḃῖῖ ÷ Ḃῖῖῖῖῖῖῖῖῖ ὀῖῖ ἁῖῖῖῖῖῖ -F Ḃ -F. Ἀᾷῖ ἑᾷ ÷ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖ ἁῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ.
- **exclude** - ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ Ḃῖῖῖῖῖ÷ἁἑ ἑᾷῖῖῖῖῖῖ ἁἑῖῖῖῖῖῖῖ (regular expressions) Ḃῖῖ ÷ Ḃῖῖῖῖῖῖῖῖῖῖ ἁῖῖ ὀῖ Ḃῖῖῖῖῖῖῖ **commit_prep.pl** ἁἑᾷ ἱᾷ Ḃῖῖῖῖῖῖῖῖῖῖ ὀᾷ ἁῖῖ÷Ḃῖῖ Ḃῖῖ ἁἑᾷ ἁῖῖῖῖ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖ÷ῖῖ ἁῖῖῖῖῖῖῖῖ ἁῖῖῖῖῖῖῖῖῖῖ (revision header). ὀῖῖῖ ἁἑῖῖῖῖῖῖῖῖ ὀῖῖ FreeBSD, Ḃἑᾷ ὀᾷ ἁῖῖ÷Ḃῖῖ ἑῖῖῖ ἁῖῖ ῖῖῖῖῖῖῖῖῖῖ (revision control) ἁῖῖῖῖ Ḃῖῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖ÷ῖῖ ἱᾷ ἁῖῖ ἁῖῖῖῖῖῖῖῖῖ ἁῖῖῖῖῖῖῖῖῖῖῖ (Ḃῖῖῖῖ \$FreeBSD\$). ἱᾷῖ ὀᾷ ἱῖῖῖῖῖ ἁῖῖ÷Ḃῖῖ Ḃῖῖ ὀᾷῖῖῖῖῖ ἱᾷ ὀῖῖῖῖ÷ἑὀῖῖ ἱᾷ ἁῖῖ ὀῖῖ ἁῖῖῖῖ ὀῖῖ ἁῖῖῖῖῖῖῖ ἁἑῖῖῖῖῖῖῖ ὀῖῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ Ḃῖῖῖ ἁἑῖῖῖῖῖῖῖ ἁῖῖῖῖῖῖῖῖῖῖῖ. ἑᾷὀῖ ὀῖ ἁἑῖῖῖῖῖῖ ὀῖῖ ἁἑῖῖῖῖῖῖῖῖῖ ὀῖῖ ῖῖῖῖ scripts ἁἑῖῖῖ÷ἱῖ, Ḃῖῖῖ ἱᾷ ἁῖῖῖῖ ἑᾷῖῖῖῖῖ ἱᾷ ἁἑῖῖῖῖῖῖῖ ἱᾷ ἑᾷὀῖῖῖῖ **CVSROOT/** ἁῖῖ ὀῖῖ ῖῖῖῖ÷ἱ ὀῖῖ headers.
- **log_accum.pl** - Ḃῖῖῖῖῖῖῖ ἁἑᾷ ῖῖῖ script Ḃῖῖ Ḃῖῖῖῖῖ ὀῖ log ἱḂῖῖῖῖ Ḃῖῖῖ ἁῖῖῖ ἁῖῖῖῖῖ ἁῖῖ ὀῖ **logcheck** script, ἑᾷῖ ὀῖ Ḃῖῖῖῖῖῖῖ ὀῖῖ ὀῖῖῖ ἁἑῖῖ ἁῖῖῖ ὀῖ repository, ῖῖῖῖ Ḃῖῖῖ ἱᾷ ὀῖῖῖῖῖῖῖ ἁὀῖῖῖῖῖ ἁῖῖ ὀᾷ commit logs. ἈḂῖῖῖῖ, ἁἑῖῖῖῖῖῖ ἱᾷ ὀᾷῖῖῖῖ ῖῖῖ mail ὀῖῖῖ email ἁἑῖῖῖῖῖῖ Ḃῖῖ ῖῖ÷ᾷᾷ ἁῖῖῖῖῖῖ (ὀῖῖ **cfg_local.pm**). ὀῖῖῖῖῖῖῖ ἱᾷ ὀῖ **CVS** ἱῖῖῖ ὀῖῖ ἁῖῖ÷Ḃῖῖ **loginfo**. Ἀᾷῖ ἑᾷ ÷ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ.
- **logcheck** - ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ ἁἑῖῖῖῖῖ ὀῖ commit log ἱḂῖῖῖῖ Ḃῖῖ Ḃῖῖῖῖ÷ῖῖ ἱᾷ ἱᾷ **committers**, ἑᾷῖ Ḃῖῖῖῖῖῖῖ ἑᾷὀῖ ἑῖῖῖῖῖ ὀῖῖῖ ἱᾷ ὀῖ ἑᾷῖῖῖῖῖῖῖῖῖ. ὀῖῖῖῖῖῖῖ ἱᾷ ὀῖ **CVS** ἱῖῖῖ ὀῖῖ ἁῖῖ÷Ḃῖῖ **verifymsg**. Ἀᾷῖ ἑᾷ ÷ Ḃῖῖῖῖῖῖῖ ἱᾷ Ḃῖῖῖῖῖῖῖ ὀῖ ἁῖῖ÷Ḃῖῖ ἁῖῖῖ.

[illegible]

- [illegible]

2.6 Ôñïðïðïéþíôáò ôá scripts

[illegible]

1. Áí aái ēYēāōā íá ÷ñçóéúíðíēíPóāōā óēō ēāēōíōñāñāō ðúí scripts íē íðíñāō ÷ñçóéúíðíēíYíōāē āðíēēāēóōēēŨ āðú ðí FreeBSD, íðíñāōā íá āōāēñYóāōā íā āóōŨēāēā ðí āñ ÷āñí access:

```
% cvs rm -f access
```

2. $\text{\AA}\epsilon\iota\eta\epsilon\pi\omicron\omicron\alpha\ \omicron\iota\ \alpha\eta\div\alpha\beta\iota\ \text{avail}\ \rho\omicron\omicron\alpha\ \iota\acute{\alpha}\ \delta\alpha\eta\acute{\epsilon}\acute{\Upsilon}\div\acute{\alpha}\epsilon\ \omicron\iota\omicron\omicron\ \acute{\alpha}\epsilon\tilde{\Upsilon}\omicron\iota\eta\iota\omicron\omicron\ \omicron\acute{\alpha}\epsilon\acute{\Upsilon}\epsilon\iota\omicron\omicron\ \omicron\iota\omicron\ \text{repository}\ \omicron\acute{\omicron}\iota\omicron\omicron\ \iota\delta\iota\beta\iota\omicron\omicron\ \epsilon\acute{\Upsilon}\epsilon\alpha\omicron\alpha$
 $\iota\acute{\alpha}\ \acute{\alpha}\epsilon\acute{\Upsilon}\alpha\eta\alpha\omicron\ \omicron\zeta\iota\ \delta\eta\upsilon\omicron\alpha\alpha\zeta\ .\ \acute{\omicron}\epsilon\alpha\iota\eta\eta\alpha\omicron\omicron\alpha\beta\omicron\alpha\ \upsilon\omicron\epsilon\ \epsilon\alpha\ \acute{\alpha}\epsilon\alpha\omicron\zeta\eta\text{\AA}\rho\alpha\omicron\alpha\ \acute{\alpha}\rho\acute{\Upsilon}\delta\alpha\omicron\zeta\ \omicron\zeta\iota\ \text{avail}\ ||\ \text{CVSROOT}\ \acute{\alpha}\eta\alpha\eta\text{\AA}\text{\AA},$
 $\acute{\alpha}\epsilon\alpha\tilde{\Upsilon}\epsilon\epsilon\upsilon\omicron\ \epsilon\alpha\ \acute{\alpha}\delta\iota\eta\epsilon\acute{\alpha}\beta\omicron\alpha\omicron\alpha\ \acute{\alpha}\epsilon\upsilon\iota\alpha\ \acute{\epsilon}\acute{\alpha}\epsilon\ \omicron\iota\iota\ \acute{\alpha}\alpha\omicron\upsilon\ \omicron\alpha\omicron\ \iota\alpha\ \omicron\iota\ \acute{\alpha}\delta\upsilon\iota\iota\acute{\alpha}\eta\ \acute{\alpha}\iota\iota\acute{\alpha}.$

[illegible]

3. Αέινεηπόά οί άν÷άβι cfg_local.pm πόά ίά άανέΥ÷άέ οέό άδέεραΥό ότö άδέεοιαβόά. Δεί οάάέάεινέΥία, έά όηΥάέ ίά άέΥάαόά οέό άάηάέÜü όηιόιόέπόέιαό άδέεραΥό:

- `%TEMPLATE_HEADERS` - ΆόόΥό ιέ άόέέάόάέβääό άάάίάñáÜæííóáέ áδú óá log scripts, έάέ öíðíεάöííóáέ éÜòú áδú öí mail öíö éÜεά commit áí öðÜñ÷íöí έάέ äáí äßíáέ έáíÝó öóí íÞíöíá öíö commit. ÄáíέéÜ, íðíñáßöá íá áóáέñÝóáöá öéó έáóá÷ üñÞóáέó PR έάέ MFC after—áóíÝ áóóÝó ó÷ äóßæííóáέ íá öí bug tracking óýóóçíá öíö FreeBSD έάέ öíí öñüðí ðíö áέá÷ áέñßæáóáέ öí FreeBSD óá branches öíö repository öíö. Έάέ öðóέéÜ íðíñáßöá íá ðñíóέÝóáöá öéó äέéÝó óáó.
- `$MAIL_BRANCH_HDR` - Áí éÝέáóá íá ðñíóóßεάóáέ áóóüíáóá íέá áðέέáóáέßáá óá éÜεά commit íÞíöíá mail, ç íðíßá έá ðñáέñÜöóáέ öí branch óöí íðíßí Ýáέíá öí óóáέáñέñíÝíí commit, íñßóóá öçí öéíÞ áóóÞ íá óáέñέÜæáέ íá öçí áέέÞ óáó äáέáóÜóóáóç. ÁóÞóóá öçí έáíÞ áí äáí áðέέöíáßöá íá ðñíóóßεάóáέ áóóüíáóá íέá óÝöíέá áðέέáóáέßáá.
- `@COMMIT_HOSTS` - Íñßóóá öçí öéíÞ áóóÞ óá íέá έßóóá áδú óóóóÞíáóá (hosts), áδú óá íðíßá áðέöñÝðáóáέ íá äßíííóáέ commits.
- `$MAILADDRS` - Ñöéíßóóá áóóÞ öçí öéíÞ óöí email öíö áέá÷ áέñέóóÞ Þ óá íέá áέáýέðíóç έßóóáó öóçí íðíßá éÝέáóá íá ðçääáßííöí óá mail öüí commit íçíöíÜöüí.
- `@LOG_FILE_MAP` - ÁέέÜíóá áóóü öí array üðüó áðέέöíáßöá. ÊÜεά regexp áíóέóóíé÷ áß óöí óóáέáñέñíÝíí öÜεáέí óöíí íðíßí áßíáóáέ öí commit, έάέ öí log íÞíöíá öíö commit áðíεçέáýáóáέ éÜòú áδú öíí έáóÜεíäí CVSROOT, óöíí öðíέáóÜεíäí commitlogs, óöí äñ÷áßí ðíö áíáóÝñáóáέ öóçí áíóßóóíé÷ ç äáñäáóÞ öíö ößíáέá `@LOG_FILE_MAP`.
- `$COMMITCHECK_EXTRA` - Áí äáí éÝέáóá íá ÷ñçóέííðíéÞóáóá öíöð Þáέíöð äéÝā÷íöð ðñüóááóçó íá öí FreeBSD, έá ðñÝðáέ íá áóáέñÝóáöá öíí íñέóíü öçó öéíÞð `$COMMITCHECK_EXTRA` áδú öí äñ÷áßí áóóü.

Όχι!Βασιός: Ç äëëäâP òçò ðáñáíYòññò §IDHEADER áßíáë äääòçíYíñ üòë èä äïðëYðäë üññ óä ðëáðòñññìð
FreeBSD. ÁíáñòÜðáë áðñ äëäëëYð ìáðáðñññYð òïò FreeBSD óòì CVS.

Ἰδιναβόα ἰά ἀεΨάῖαόα ὀι ἀν÷αβῖ cfg. pm ἀέα ἰά ἀαβόα θῖεΨό Ὑεεαό θἀναΨόνῖρο ἰθῖναβόα ἰά ἀεεῤῖαόα, ἀεεῤ ἰε θἀναθῤῖ ἄβῖαε ἰε θει ὀοῖβεαέο ἀδεεῖαΨό.

4. Άðáíññάάόðáðá ðí áñ÷áßí exclude áέά íά áόάέñÝóáðá ðέð áέάέέÝð έάóá÷ññðóáέð ðíð FreeBSD (üðüð üέáð ðέð ãñáñÝð ðíð íáέέñíýí íá ^ports/ έðέ.). Άέðüð áððíý, áÜέðá óá ó÷üέέá ðέð ãñáñÝð ðíð íáέέñíýí íá ^CVSROOT/, έάέ ðñíóέÝóóá íέά ãñáñÞ ðíð έá ðáñέÝ÷άέ íüñí ðí ^CVSROOT/. Áóíý áάέάðáóðάέáß í wrapper, ïðíñáðá íά ðñíóέÝóóá ðí áέέü óáð header óóá áñ÷áßá ðíð ãñáðέñíóáέ ïÝóá óóñí έάðÜέíñí CVSROOT έάέ íά áðáíáðÝñáðá ðέð ãñáñÝð áððÝð, áέέÜ ðñíð ðí ðáññí áðέÜ έá óáð áçíέíðñáðóíðí ðñíáέðíáðá üðáí έá ðñíóðáέðóáðá íά έÜíáðá commit áññüðáñá.
5. Áñíßíðá ðí áñ÷áßí modules, έάέ áόάέñÝóóá üέáð ðέð ó÷áðέέÝð íá ðí FreeBSD έάóá÷ññðóáέð. ðñíóέÝóóá óá áέέÜ óáð modules áí ðí áðέέðíáðá.
- 6.

Όçíáßüόç: Όí áðíá áððü áßíáέ áðáñáððçðí íüñí áí Ý÷áðá ïñáóáέ έÜðíέá ðέíð óçí ðáñÜíáðñí \$IDHEADER ðíð áñ÷áßíð cfg_local.pm (ç íðíßá äíðέáýáέ íüñí áóüóñí ÷ñçóέñíðíέáßáðá óçí ðñíðíðíέçíÝýç Ýέäíόç ðíð CVS ðíð Ý÷άέ ðí FreeBSD).

Άέíñèðóáð ðí áñ÷áßí options þóðá íά óáέñέÜáέ íá ðí tag ðíð ïñáóáðá óðí áñ÷áßí cfg_local.pm. Íέά áíáάèðçόç έάέ áíðέέáðΰóóáόç ðíð FreeBSD óá üέí ðí áñ÷áßí áßíáέ áñέáð.

7. Άðáíññάάόðáðá ðí áñ÷áßí rcstemplate þóðá íά ðáñέÝ÷άέ óá ßáέά keywords íá áððÜ ðíð Ý÷áðá ïñáóáέ óðí cfg_local.pm.
8. ðñíáέñáðέέÜ, áόάέñÝóóá ðíðð áέÝá÷íðð ðíð FreeBSD áðü ðí áñ÷áßí tagcheck. ïðíñáðá áðέÜ íά ðñíóέÝóóáðá exit 0 óóçí áñ÷áßíð ðíð áñ÷áßíð áέά íά áðáíññáíðíέðóáðá üέíðð ðíðð áέÝá÷íðð óðí tagging.
9. Όí óáέáððáßí ðñÜñíá ðíð ðñÝðáέ íά áßíáέ, áßíáέ íά óέáíðñáððáðá üέέ óá commitlogs ïðíñíý íά áðíέçέáððíýí. Óá CVS scripts ðíð FreeBSD áðíέçέáýíðí áððÜ óá logs óðíð ððíέáðÜέíñí commitlogs ðíð έáðáέüñíð CVSROOT. Áððüð í ðÜέáέðð ðñÝðáέ íά áçíέíðñáçèáß, ïðüðá έÜíðá óá áέüέíðέá:

```
% mkdir commitlogs
% cvs add commitlogs
```

Όðñá, áóíý áέÝáíñáðá óá ðÜíðá ðñíóáέðέέÜ, έá ðñÝðáέ íά έÜíðáðá commit ðέð áέέááÝð óáð. Õñííðóóá íά áßóóá óßáíðñíέ üέέ Ý÷áðá áðóáέ óðñí ááððü óáð ðñüóááόç óðñí ðÜέáέí CVSROOT ïÝóá áðü ðí áñ÷áßí avail ðñέí έÜíðáð íðέáððíðá, áóüóñí óóçí áíðßέáðç ðáñßððüόç έá έέáέððáðá ðñí ááððü óáð Ýñ. ïðüðá, ðñííðóóáðá óá ðÜíðá íά áßíáέ üðüð áðέέðíáðá, έάέ íüñí ðüðá áðóðá óá áέüέíðέá:

```
% cvs commit -m '- Initial FreeBSD scripts commit'
```

2.7 ΆíέέíÜáέííðáð óçí Άάέáðΰóóáόç

Άßóðá Ýóíέííέ áέá óçí ðñðçç óáð äíέέíð: íά forced commit óðí áñ÷áßí avail, áέά íά óέáíðñáððáðá üέέ üέá äíðέáýíðí üðüð έá Ýðñáðá.

```
% cvs commit -f -m 'Forced commit to test the new CVSROOT scripts' avail
```

¶í üέá ðÜíá έáέÜ, óðá÷áñçðÞñέá! ,÷áðá έáðáðÝñáέ íά óððáðá íέá ðèÞñüð έáέíðñáέέð áάέáðΰóóáόç ðñí FreeBSD scripts áέá ðí repository óáð. Óóçí ðáñßððüόç ðíð ðí CVS áíáέíðέáß íά ðáñáðííέÝóáέ áέá έÜðέ, áðέóðñÝððá óóέð ðñíçáíýíñáð áíüðçðáð έάέ áέÝáíðá íáíÜ üέέ Ý÷áðá áέðáέÝóáέ óüóðÜ üέá óá ðñíçáíýíñá íáðíáðá.

3 Åéäêþ ÅãêáôÛóóáóç ôïõ FreeBSD Project

Ὁι βαεῖ οἱ FreeBSD project ÷ ἡγόσει ὁ δειὰ ἀεάοηρο ἀεάοηηαόέεP ἀεάοÜóóáoç, ç ἰθίβα ÷ ἡγόσει ὁ δειὰ ἀδβόçð ἄñ÷ἀβα αδϋ οἱ ὀθροÜεαεῖ freebsd οἱ CVSROOT θῖο ÷ ἡγόσει ὁ δειὰ βόοῖ FreeBSD. Ὁι project ÷ ἡεÜεαάόε εÜöé öÝοιεῖ εüäυ οἱ ἰαāÜεῖο ἠέεῖῖγ οὔῖ committers, θῖο ἀεάοηηαόέεÜ εä Ýðḥḗð ἰá áῖPεῖοῖ υῖεῖ óοῖ βαεῖ group. ϑóé, ἄçῖεῖòḇεçεä Ýῖáo αδϋèð wrapper ἰ ἰθῖβῖð αóῖγ ðḥρóa ἠῖáoöεῖεäεä óá öúóóÜ ἀεάðéóáðöðḥεä οὔῖ committers, ἀεεÜεäε ἰäÝðäéóá öῖ group id óá äðöυ οἱ repository.

[illegible]

3.1 Άν÷άΒα ðĩ ÷ñçóëïðïëíýíóáé óôçí áéääêþ åääêôÛóóáóç òĩ FreeBSD

- `access` - `οἱ ἀν÷ὰβι ἀδού ÷ ἄε ὁεὸ δῆχνῖοῖνβὰδ ἁέα ὁά ἁέἁἁἁἁἁἁ ὁῖνῶἁἁόçð. Ἐὰ δὴÝðἁἁ ἰά ὁἰ ἁḁἁἁἁἁἁἁἁἁἁἁ ἁἰṰἁἁἁ Ṳḁḁἁ ἁḁἁ ἰά ḁἁἁἁἁἁἁṰἁἁἁ ὑἁἁ ὁά ἰṲἁḁ ὁἰḁ project ὁάḁ.`
- `frebsd/commitmail.pl` - `οἱ ἀν÷ὰβι ἀδού ἁἁἰ ÷ ḁḁḁḁἁἁἁἁἁἁἁἁἁ ḁἁἁ, ἁἁἁṰ ḁἁἁἁṲἁἁἁ ἁἁἁ ἁἁḁḁἁἁἁἁἁ ἁἁἁḁἁἁἁἁἁ ἰά ἁḁἁἁἁἁἁἁ ἁἁἁ ὁἰ ἀν÷ὰβι.`
- `frebsd/cvswrap.c` - `δὴνἁἁἁἁἁἁ ἁἁἁ ὁἰἰ ḁḁἁἁἁἁ ἁἁἁἁἁ ὁἰḁ CVS wrapper ḁἰḁ ἁὰ δὴÝðἁἁ ἰά ἁἁἁἁἁἁḁḁἁἁ ἁἁἁ ἰά ἰḁἁἁṲḁἁἁἁ ὑἁἁἁ ἰἁ Ṳἁἁἁ ÷ ἰἁ ḁῖνῶἁἁἁḁ ὁἁἁἁἁṰ ἰά ἁἰḁἁṲḁἁἁἁ. ḁἁἁḁḁḁḁἁἁἁ δῆχνῖοῖνβὰδ ἁἁἁ ὁḁ ἁἁἁἁἁἁἁἁ ἁḁḁ ἁὰ ἁἁἁἁ ḁἁἁἁṰḁḁ. Ἐὰ δὴÝðἁἁ ἰά ἁἁἁἁἁἁἁ ὁά paths ὁḁḁ ACCESS ἁἁἁ REALCVS ἰἁἁἁἁἁἁἁṲḁ ἁḁἁ ἰά ὁἁἁἁṲḁἁἁἁ ἰἁ ὁḁ ἁἁἁḁ ὁḁ ἁἁἁἁṰḁḁἁἁἁἁ.`
- `frebsd/mailsend.c` - `οἱ ἀν÷ὰβι ἀδού ÷ ἁἁἁṲḁἁἁἁἁ ἁἁἁ ὁḁἁ ὁ÷ἁἁἁἁἁἁ ἰἁ ὁḁḁ ἁḁḁἁἁ ὁἁ÷ḁἁἁἁἁἁἁ ἁἁἁἁṰḁḁἁἁἁἁ ὁἰḁ FreeBSD. Ἀἁἁ ἁὰ ÷ ἁἁἁἁἁἁἁ ἰά ḁἁἁṲḁἁἁἁ ὁἰ ἀν÷ὰβι ἀδού.`

3.2 Ç äéáäéêáóßá

- [illegible]

Ôi áëëu iïõ áíôßôõðï òïõ áñ÷ãßïõ cvswrap.c Ý÷áé óá áëüëïðëá:

```
#define ACCESS "/local/cvsroot/CVSR00T/access"
#define REALCVS "/usr/bin/ncvs"
```

3. Οι αδιυϊάν άΠία άβίαέ ίά άάέάάάόδΠόϊοϊά όϊϊ wrapper άέά ίά άβίαόάά όβάρϊόνϊέ υόέ έά άβίαόάέ ç ίάάάόνϊδΠ όόϊ όυόόυ group υόάϊ άβίαόάέ commit. Ι όçääßïð έπαέέάό άέ' άόόυ άñßόέάόάέ όόϊ άñ÷:άßï `cvswrap.c` όόϊϊ έάόÜëïäï CVSROOT.

İlaââeûôôßôâ ôîî êpâeâ đîõ Ý÷:ââ Pâç âeîññéôâé pôââ íá đâñeÝ÷:âé ôâ ôuôôÜ paths:

```
% cc -o cvs cvswrap.c
```


[illegible]

```
# mv /usr/bin/cvs /usr/bin/ncvs
# mv cvs /usr/bin/cvs
# chown root:ncvs /usr/bin/cvs /usr/bin/ncvs
# chmod o-rx /usr/bin/ncvs
# chmod u-w,g+s /usr/bin/cvs
```

Ἄδου ἀαεάεεοόῦ οἷ wrapper óái ôçí âî ñéοἷῡ cvs âîòēP, eÜñîòað Ὑóεé óBârōñi uóε ïðîēíòâPðîòâ èâεPóâé íá
 ÷ñçóéñîðîēPóâé òî repository, èá ðñÝðâé íá Ὑ÷âé óá éáoÜēççéâ aðBðâââ ðñuóââóçð.

4. Ἰδιναβὼα ὀπνά ἰά ἀοάεν Ὑῶαδῶα ὑεῖρὸδ οἰτὸδ ÷ ἡβῶαδῶα ἀδῦ οἰ repository group ὁάδ. 1/4εῖε ἰε Ὑῶα ÷ ἰε ὀνῦῶαῶοç ἑά ἄβῖρῖῶάε ἀδῦ οἷ wrapper, ἑάε ἰ βᾶεῖδ ἰ wrapper ἑά εὐῖῶάε οἷ ἀφῖῤεῖῖ group ἰα οἷ ὀδῖβ ἑά ἄβῖῶάε ἑάε ç ὀᾶεῖῖβ ὀνῦῶαῶοç.

3.3 ÅĖÝã÷ííôáò ôçí åãêáôÛóôáóç

İ wrapper ðñŸðǎé ðēŸıı íá áßíáé Ÿðíēı̈ð. İðıñǎßòá òöóéêÛ íá ôî äıēēı̈Ûóáòâ êÛıııóáð Ÿíá forced commit óôı äñ÷÷âßı access:

```
% cvs commit -f -m 'Forced commit to test the new CVSROOT scripts' access
```

ÎáíÛ, áí áõõü áðíõý÷áé, æÝãîã üöé üéá ôá ðãñáðÛüü âÞíáôá Ý÷íí æêðæãóôãß óúóôÛ.