

Αἱεῶὐόαός αἰὺò CVS Repository — ἰ ὀñüðïò ôïõ FreeBSD

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\$FreeBSD: doc/el_GR.ISO8859-7/articles/cvs-freebsd/article.sgml,v 1.13
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Ὀἰ FreeBSD ᾱβἰᾱέ ῒᾱ ἑᾱόἱ÷ ðñüŶñ ᾱἰðἱñέēŬ ὀῖᾱἱἱἱ ὀἰò FreeBSD Foundation.
ðἱἱἑŶò ᾱðŭ ὀἑò ἑŶἰᾱἑò ð ðñŬὀᾱἑò ἱἑ ἱðἱβᾱò ÷ ñçóἑἱðἱἑῖῖὀᾱἑ ᾱðŭ ὀἱòò ἑᾱὀᾱἑᾱὀᾱὀŶò ð ὀἱòò
ðùἑçòŶò ὀἱòò ᾱἑᾱ ἱᾱ ᾱἑᾱἑñβἱἱἱ ὀᾱ ὀñἱŭἱὀᾱ ὀἱòò ἑᾱŭñἱῖὀᾱἑ ᾱἰðἱñέēŬ ὀῖᾱἱἱἱ. ¼ðἱò ᾱὀὀŶò
ᾱἰὀᾱἱβᾱἱὀᾱἑ ὀᾱ ᾱὀὀŭ ὀἱ ἑᾱβἰᾱñ ἑᾱἑ ᾱἑᾱ ὕὀᾱὀ ᾱðŭ ᾱὀὀŶò ᾱἱŭñβᾱἑᾱ ḡ ἱἱŬᾱᾱ ἈἱŬðὀὀῖçò ὀἱò FreeBSD ὕὀἑ
ᾱβἰᾱἑ ὀἑἑᾱἱἱἱ ἱᾱ ᾱβἰᾱἑ ᾱἰðἱñέēŬ ὀῖᾱἱἱἱ, ἑᾱ ᾱᾱβὀᾱ ῒᾱ ᾱðŭ ὀᾱ ὀῖᾱἱἱἱ: “TM” ð “®”.

Ὀἱ Ŭñἑñἱ ᾱὀὀŭ ðᾱñἑᾱñŬὀᾱἑ ὀᾱ ᾱβἰᾱὀᾱ ὀἱò ῒἑᾱἱᾱ ᾱἑᾱ ἱᾱ ᾱᾱἑᾱὀᾱὀᾱὀŭ ῒᾱ CVS repository ὀἱò ÷ ñçóἑἱðἱἑῖῖ ὀἱ
ὀᾱ βᾱἑᾱ ᾱñ÷ᾱβᾱ ᾱŶὀἱçò ᾱἱὀἱῖῖ (scripts) ἱᾱ ᾱὀὀŬ ὀἱò ÷ ñçóἑἱðἱἑῖῖ ἑᾱἑ ὀἱ FreeBSD project ὀὀç ᾱἑἑð ὀἱò
ᾱᾱἑᾱὀŬὀᾱὀç. Ç ὀὀᾱἑᾱἑñἱŶἱç ὀñἱὀŶᾱἑὀç ῒ÷ᾱἑ ᾱñἑᾱὀŬ ðἑᾱñᾱἑὀβἰᾱὀᾱ ῒᾱἱὀἑ ἱἑᾱὀ ὀὀðἱðἱἑῖῖŶἱçò CVS
ᾱᾱἑᾱὀŬὀᾱὀçð, ὕðŭð ðἱἱ ἑᾱðὀñᾱñ ÿἑᾱᾱ÷ἱ ðñŭὀᾱὀçð ὀὀἱ ᾱŶἱὀñἱ ὀἱò ἑβᾱἑᾱ ἑᾱḡð ἑᾱἑ ᾱὀὀŭἱὀç
ðᾱñᾱᾱñ ðᾱᾱŶᾱñŭὀὀŭἱ email ἱᾱ ἑᾱðὀñŶñᾱἑᾱ ᾱἑᾱ ἑŬἑᾱ ᾱἑἑᾱð ὀὀἱ ὀçᾱᾱβἱ ἑβᾱἑᾱ (commit).

1 Ἀἑὀᾱᾱñᾱḡ

Ὀᾱ ðᾱñἑὀὀŭὀᾱñᾱ projects ᾱἑᾱŶᾱñἱὀ ἑἱᾱἑὀἱἑῖῖ (free software) ἑᾱἑ ᾱñἱ÷ὀἱŶ ἑβᾱἑᾱ (open source) ÷ ñçóἑἱðἱἑῖῖ ὀἱ
CVS ὀᾱἱ ὀῖὀὀῖᾱ ᾱἑŶᾱ÷ἱò ὀἱò ἑβᾱἑἑŬ ὀἱòð. ðᾱñŭἱἱ ὀἱò ὀἱ CVS ᾱβἰᾱἑ ὀἱἑŶ ἑᾱἑŭ ὀᾱ ᾱὀὀŭἱ ὀἱἱ ὀñŶᾱ ῒ÷ᾱἑ ἑἑ ᾱὀὀŭ ὀἱ
ἱᾱñβᾱἑŭ ὀἱò ὀᾱ ᾱἑᾱὀὀβἰᾱὀᾱ ἑᾱἑ ᾱᾱὀἱᾱβᾱð. ἱἑᾱ ᾱðŭ ᾱὀὀŶò ὀἑð ᾱᾱὀἱᾱβᾱð ᾱβἰᾱἑ ὀἱ ὕὀἑ ḡ ἑἱἱἱð ÷ ñβὀç ἑβᾱἑᾱ ἱðἱñᾱβ
ᾱñβᾱñᾱ ἱᾱ ἱᾱçᾱβὀᾱἑ ὀᾱ ῒᾱἱᾱ ᾱἑᾱ÷ᾱἑñἑὀἑŭ ᾱὀἑŬἑðç, ᾱἑᾱἑŬ ᾱἱ ὀðŬñ÷ᾱἑ ḡ ᾱðἑἑὀἱβᾱ ἱᾱ ὀñἱὀᾱὀᾱὀὀῖῖ ἱñἑὀἱŶᾱ
ἑñἱŬὀἑᾱ ὀἱò ᾱŶἱὀñἱò ὀἱò ἑβᾱἑᾱ ᾱðŭ ἑἱἱἱð ὀñŭὀᾱὀç.

Ç ñŬᾱᾱ ἈἱŬðὀὀῖçò ὀἱò FreeBSD ÷ ñçóἑἱðἱἑῖῖ ᾱἑὀᾱḡð ὀἱ CVS. ἈἑᾱἑŶὀᾱἑ ᾱðβὀçð ἱἑᾱ ἱᾱᾱŬἑç ᾱŬὀç ᾱðŭ
ðñἱᾱᾱñἱὀἑὀŶò ᾱðŭ ðἱἱἑŶò ᾱἑᾱὀñᾱὀἑἑŶò ÷ ðñᾱð. ἈἱᾱðὀŶ÷ἑçἑᾱἱ ἑἱὀὀŭἱ ἱᾱñἑἑŬ ᾱñ÷ᾱβᾱ ᾱŶὀἱçò ᾱἱὀἱῖῖ ᾱἑᾱ ἱᾱ
ἑŬñἱὀἱ ὀçἱ ᾱἑᾱ÷ᾱβñἑὀç ὀἱò repository ðἱἱ ᾱŶἱἑἱç. ðñŭὀᾱὀᾱ ὀᾱ ᾱñ÷ᾱβᾱ ᾱὀὀŬ ᾱἱᾱἑᾱñβἑçἑᾱἱ ἑᾱἑ ἑᾱñἱἑἑἱðἱἑβἑçἑᾱἱ
ᾱðŭ ὀἱἱ Josef Karthausser <joe@FreeBSD.org> ᾱἑᾱ ἱᾱ ᾱβἰᾱἑ ðἱἱ ᾱŶἱἑἱἱ ἱᾱ ÷ ñçóἑἱðἱἑçἑῖῖ ἑᾱἑ ὀᾱ Ŭἑἑᾱ ῒñᾱᾱ. Ὀἱ
Ŭñἑñἱ ᾱὀὀŭ ðᾱñἑᾱñŬὀᾱἑ ἱἑᾱ ἱŶἑἱᾱ ÷ ñβὀçð ᾱὀὀḡἱ ὀŭἱ ἱŶŭἱ ᾱñ÷ᾱβốἱ ᾱŶὀἱçò ᾱἱὀἱῖῖ.

Ἀἑᾱ ἱᾱ ἱðἱñŶὀᾱὀᾱ ἱᾱ ÷ ñçóἑἱðἱἑῖῖβὀᾱὀᾱ ἱᾱ ὀἱἱ ἑᾱŶŶὀᾱñἱ ὀñŭðἱ ὀἑð ðἑçñἱὀἱñβᾱð ᾱὀὀῖῖ ὀἱò Ŭñἑñἱò ἑᾱ ὀñŶᾱἑ ἱᾱ
ᾱñŭñβᾱὀᾱ ὀἑð ᾱὀἑἑŶò ἱᾱἑŭᾱἱð ἑᾱἑὀἱñᾱβᾱð ὀἱò CVS.

2 Ðñþòç ÅãêáôÛóóáόç

Ðñíáêäìðìðçόç: Άβίáê êáêþ éäÝá íá áêóáêÝóáôá áêá ðñþòç ðññÛ áóòþ òç áêááêêáóá þñçóêìðìêðíóáò Ýíá êáíü äìêêíáóóêêü repository, áêá íá áβíáê áÝááêí üòê êá êáóáíñþóáôá üêáò óêò óóíÝðáêáò. Ðñêí íáêêíþóáôá óêáíñáòóóáβá üòê Ý÷áôá ðñüóóáóá backups, óá ðìðá ááãóçÝíá äìòêáýìí!

2.1 Άñ÷êêìðìðçόç ôìò repository

Ôì ðñþò ðññÛáá ðìò êá ðñÝðáê íá êñíáôá üòáí óòþíáôá Ýíá íÝí repository áβíáê íá ðáβáò óòí CVS íá ôì áñ÷êêìðìêþóáê:

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

Áóòü êÝáê óòí CVS íá äçìêññáþóáê ôñí òÛêáêí áêá÷áβñêóòð CVSROOT, üðìò óòíááβñíòí üêáò íê ðáñáíáòñìðìêþóáêò.

2.2 Ç ñÛáá ôìò repository

Ôþñá êá äçìêññáþóíòíá òçí ñÛáá óóçí ðìðá êá áíþêáê ôì repository. ¼êìê íê committers êá ðñÝðáê íá áíþêíòí óá áóòþ òçí ñÛáá, þóóá íá ðìññýí íá ãñÛíòí óòí repository. Άêá ôì óêìðü áóòü êá ðñçóêìðìêþóíòíá òçí βáêá ñÛáá ðìò ðñçóêìðìêáê áê' áóòü ôì óêìðü êáê ôì FreeBSD, òçí ñÛáá ncvs.

```
# pw groupadd ncvs
```

ÌáòÛ, êá ðñÝðáê íá áêóáêÝóáôá òçí áíðìêþ chown(8) óòí òÛêáêí íá ðáññíáòñí òçí ñÛáá ðìò íüêêò ðñíóêÝóáôá, êÝòñíóáò Ýóóê òçí ñÛáá óóçí ðìðá áíþêáê í êáòÛêñäò:

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

Áóòü áíáóóáêþáê üòê êáíáβò ááí êá ðìññáβ íá ãñÛáê óòí repository áí ááí áíþêáê óóçí óòóòþ ñÛáá.

2.3 Ðáβññíóáò ôñí ðçááβí êþáêêá

Ôþñá êá ðñÝðáê íá áðìêòþóáôá ôñí êáòÛêñäí CVSROOT áðü ôì repository ôìò FreeBSD. Áóòü áβíáóáê áýêìêá, êÛñíóáò check out áðü Ýíá áñê÷òðò ðñüóáóóòð FreeBSD CVS mirror. Άáβáò ôì ó÷áóêêü êáòÛêáêí óòí áá÷áêñáêí (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/anoncvs.html) áêá ðáñêóóüòáñáò ðêçññíòñáò. Áò ððìêÝóíòíá üòê í ðçááβíò êþáêêáò êá áðìêêêáòóáβ óòí êáòÛêñäí CVSROOT-freebsd ðìò áñβêêáóáê íÝóá óòí òñÝ÷ííóá êáòÛêñäí.

2.4 ÁíóêãñÛííóáò óá scripts ôìò FreeBSD

¼óóáñá, áíóêãñÛíòíá ôñí ðçááβí êþáêêá áðü ôñí CVSROOT êáòÛêñäí ôìò FreeBSD óòí áêêü íáò repository. Áí áβóóá óòçêêóíÝñò íá ôì CVS, βóòð íá óáò ðáñÛóáê áðü ôì íóáêü íá ðñíóðáêþóáôá íá êñíáôá import óá scripts, óá íêá ðñíóðÛêáê íá áβíáê ýóóáñá í óóá÷ññêóíòð íá óêò êáòìðêíÝð áêáüóáêò áòêñüòáññò. Ûóòüóí, áðñááêñýáóáê üòê ôì CVS ðáññíóêÛáê íêá áóóêáêòññáβá óóçí ðáñêí÷þ áóòþ: ¼óáí áêóÛááòá ðçááβí êþáêêá ÝÝóá óòí CVSROOT òÛêáêí, ááí êá áçíáññêñýí óá áðáñáβóçóá áñ÷áβá áêá÷áβñêóòð. Άêá íá ðññÝóáôá íá ôì êñíáôá íá óá áíáñññáò, êá ðñÝðáê

íá eÜíáðá checkin íá÷÷ñéóóÜ eÜëá añ÷÷áíí áóíý Ý÷÷áð ááéáéþáé íá óçí áéóááüáþ, ÷Üñííáð Ýðóé óçí áíáá öíð
 cvs import. ÁðñÝíúð, ç ðñíðáéíüáíç íÝëíáð áííáé áðëÜ íá áíóéáñÜþáðá óá scripts.

Άἱ ἁβιάε ἐὰε οὐοῖ οῖαίῳέεῦ οἱ ἱ ἱ ὀάνᾱḑŪñ ὀάνŪñᾱῳῖ ᾱἱ ὀᾱ ὀᾱβᾱῳᾱέ ḑῑῑ ἱᾱέŪᾱñç—ῖ ὀᾱέέεῦ ᾱḑῖŸῑῑᾱ
 ᾱβιάε ῖ βᾱῑ. ἈḑŪ ᾱῑῑᾱῖ ῖñ CVSROOT ὀŪᾱῑ ἑᾱέ ᾱῖᾱῑñŪḑᾱ ὀᾱ FreeBSD ᾱñ÷ᾱβᾱ ḑŪñ ᾱḑῖ ὀᾱ ᾱέῦ ὀᾱḑ
 ὀἱḑῑῦ (ᾱḑᾱβᾱ÷ὀᾱ) ᾱῖḑᾱñᾱῳᾱ:

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

[illegible]

2.5 Tá scripts

[illegible]

- `access` - οἱ ἀν÷ἄβι ἀδού ἀὰ ÷ ñçóçíñðíçáðáç óðð ðóççéçóíŸíáð ἁççáðáçðŸóáð ðíð **CVS**. × ñçóçíñðíçáðáç ïññ ððçí çáçéç ðáçáðŸððáçç ðíð FreeBSD project, ἁçá íá ἁçŸá÷ḗðáç ç ðññóááçç ððí repository. Ìðññáðá íá áðáçñŸóáðá áðóð ðí ἀñ÷ḗβι áí ἁάí çáð ḗñáçáŸññáç íá ÷ ñçóçíñðíçáðáðá çŸŸç ðŸðíçí ððç ἁçç ðáð ἁççáðŸððáçç.
- `avail` - οἱ ἀν÷ḗβι ἀδού ἁçŸá÷ḗç ðçí ðññóááçç ððí repository áŸŸ çáðŸçíññ ð ἀñ÷ḗβι. ÌŸóá çá áðóð, ìðññáðá íá çáçññáðáðá ñŸŸáð ÷ ñçóçíñðíçáðá ððíð ððíñð ðŸçáðá íá ḗðáðáðá ðññóááçç ððí repository, ùððð ḗððçðç çáç íá áðáçñŸŸáðá commits çá ḗðððáñ çáðáçññññ ð ἀñ÷ḗβι. Èá ðñŸðáç íá ðí ðññóáññññññ ððáð íá ðññçŸ÷ḗç ðç ðçð ñŸŸáð ÷ ñçóçíñðíçáç ððð ððð ðáçŸçð ðíð çá ððŸñ÷ḗðí ððí ððí ççç ðáð repository.
- `cfg.pm` - οἱ ἀν÷ḗβι ἀδού ḗñçíçñŸáç ðçð ñðçíðáçð ðáð çáç ðñŸ÷ḗç ðç ðçð áŸññçíŸ ñðçíðáçð. Ḃáñ ðñŸðáç íá ḗççŸíðáðá áðóð ðí ἀñ÷ḗβι. Ḃíðçáðá, çá ðñŸðáç íá ðíðíçáððáðá ðçð ḗççŸð ðáð ḗççááŸð ðçðð ñðçíðáçð ððí ἀñ÷ḗβι `cfg_local.pm`.
- `cfg_local.pm` - οἱ ἀν÷ḗβι ἀδού ðññçŸ÷ḗç ðç ṽçáð ðçð ñðçíçæñññññ ðññññŸñññ ðíð ðððððíáðíð. Èá ðñŸðáç íá çŸŸíðáðá ððíçáððíðíðá ñðçíðáçð ðáð ḗðð, ùððð çá ðíçá ḗççŸçíðíç ðá çðŸçññññ ðá email áðñ çŸçá commit, çá ðíçíðð hosts çá ḗðçðñŸðáç íá ḗññíðáç commit, ççð. ðññçóóððñññ ðççññññññ ð÷ḗçççŸ ìá áðóð çá ḗññáðá ðññáçŸŸ.
- `checkoutlist` - οἱ ἀν÷ḗβι ἀδού ðññççñññŸíç ṽçá çá ἀñ÷ḗβá ðíð ḗñðçíññáç çŸŸð ḗðñ ḗççá÷ḗ ðíð **CVS** ððíñ çáðŸçíññ ḗççá—ṽçá ḗççðð ḗðñ çá ðññçáçññçóíŸíá ἀñ÷ḗβá ðíð ḗçíçíññññ ç ḗíðíç ð `cvs init`. Èá ðñŸðáç íá ðí ḗççŸíðáðá ḗçá íá áðáçñŸóáðá ìñççŸŸ, ç÷ḗçççŸ ïññ ìá ðí FreeBSD, ἀñ÷ḗβá.
- `commit_prep.pl` - οἱ script ἀδού ḗçðáççá ðçŸñññð ḗçŸá÷ḗðð ðñçí ḗðñ çŸçá commit, ḗŸçíññá ìá ðçð ñðçíðáçð ðíð Ÿ÷ḗçá çŸíçá çðí ἀñ÷ḗβι `cfg_local.pm`. Ḃáñ çá ÷ ññáçóðá ìá ðáçñŸíðáðá áðóð ðí ἀñ÷ḗβι.
- `commitcheck` - οἱ script ἀδού çáççáðáç ḗðáðçáðáð ḗðñ ðí **CVS**. ðñðá ḗçŸá÷ḗç, ÷ ñçóçíñðíçáðá ðí ðññḗññññ `cvs_acls.pl`, ḗí ðí committer Ÿ÷ḗç ðññóááçç ððí ððáçññññññ ìŸññð ðíð ḗŸíðññð ðíð çðáççá, çáç ìáðŸ ḗçðáçç ðí `commit_prep.pl` ðíð ḗçðáççá ðíðð ḗçŸññññð pre-commit ḗçŸá÷ḗðð. Ḃí ḗá ððŸññáç çŸŸíçí ðññḗççíá çðíðð ḗçŸá÷ḗðð áðóíŸð, çññá ðí **CVS** çá ḗðçðñŸðáç çðí commit íá çðí÷ḗ÷ḗç. Ḃáñ çá ÷ ññáçóðá ìá ðáçñŸíðáðá áðóð ðí ἀñ÷ḗβι.

- [illegible]

Όχι!Βυθός: Οί script áíáñòÕðáε áδύ íεά ðíðéεP áεéááP ðíò FreeBSD ðóí **CVS:** Ç áεéááP áððP íáíááεάáUæáε ðí log íPíóíá áóíY áðòÕ Ý÷:áε ðñíðíðíεçεáB áδύ ðí script. Ç éáííéεP Ýéáíóç ðíò **CVS** ðñíóáíP ááí εUíáε εUðéε ðYóíεí, ðýòá ðí **logcheck** áá ðíñáB íá εUíáε íéññíáéíñεPóáéð ðóí log íPíóíá, áεεU ðíñáB íá áεYáíáε úðé ðí íPíóíá ááí Ý÷:áε ðóíðáéðééU εUεç. Áðí ðçí Ýéáíóç 1.11.2 éáε íáðÕ ðí Báéí ðí **CVS** ðíñáB íá ððéíεóðáB íá Ý÷:áε ðçí Báéá ðóíðáñéóíñU íá áððP ðíò Ý÷:áε ç Ýéáíóç ðíò FreeBSD íá ðçí áðééíáP **RereadLogAfterVerify=always** óóí áñ÷:áBí config.

- [illegible]

2.6 Ôñïðïðïépíôáò ôá scripts

[illegible]

1. Áí aái ēYēāōā íá ÷ñçóéúíðíēíPóāōā óēō ēāēōíñāāāō óúí scripts íē íðíāō ÷ñçóéúíðíēíYíōāē āðíēēāēóōēēŨ āðú òí FreeBSD, íðíñāāōā íá āōāēñYóāōā íā āóōŨēāēā òí āñ ÷āñí access:

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

2. Ἀείνεþþόα ὀι ἀν÷ᾶβι avail þόα ἰά ᾱᾶἡÝ÷ᾶέ ὀἰῶ ᾶέῶἰἡἰῶ ὀᾶέÝἡἰῶ ὀἰῶ repository ὀἰῶ ἰῶἰῶ ἡἡᾶῶ ἰᾶ ᾶἡἡᾶῶ ὀῑ ὀἡῶᾶῶ. Ὀἡἡᾶῶᾶᾶᾶ ὑῶ ἡ ᾶᾶὀῑᾶᾶᾶ ἡἡᾶᾶ ἡἡᾶᾶ ὀῑ avail | CVSROOT ᾶᾶᾶᾶ, ᾶᾶῶᾶ ἡ ᾶᾶᾶᾶᾶᾶ ᾶᾶᾶ ἡᾶ ὀἡ ᾶᾶᾶ ὀᾶ ἰᾶ ὀἡ ᾶᾶᾶᾶ ᾶᾶ.

[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:

- [illegible]

Όχι!Βασιός: Ç äëëäâP òçò ðáñáíYòññò §IDHEADER áßíáë äääòçíYíñ üòë èä äñöëYðäë üññ óä ðëáðòñññìð
FreeBSD. ÁíáñòÜðáë áðñ äëäëëYð ìáðáðñññYð òñò FreeBSD óññ **CVS**.

Ἰδιναβόα ἰά ἀεΨάῖαόα ὀι ἀν÷αβῖ cfg. pm ἀέα ἰά ἀαβόα θῖεΨό Ὑεεάο θἀναῖΨονῖρο ἰθῖναβόα ἰά ἀεεῤῖαόα, ἀεεῤ ἰε θἀναθῤῦ ἄβῖαε ἰε θεῖ ὀοῖπεαέο ἀδεεῖαΨό.

4. Άðáíññάάόðáðá ðí áñ÷áßí exclude áέá íá áóáέñÝóáðá ðέð áέáέέÝð έάóá÷ññðáέð 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 íέá ãñáñP ðíð έá ðáñέÝ÷áέ íüñí ðí ^CVSROOT/. Áóíý ááέάðáóðáέáß í wrapper, ïðíñáðá íá ðñíóέÝóóá ðí áέέü óáð header óóá áñ÷áßá ðíð ãñáðέñíóáέ ïÝóá óóñí έάðÜέíñí CVSROOT έάέ íá áðáíáðÝñáðá ðέð ãñáñÝð áððÝð, áέέÜ ðñíð ðí ðáññí áðέÜ έá óáð áçíέíðñáðóíðí ðñíáέðíáðá üðáí έá ðñíóðáέðáðá íá έÜíáðá commit áññüðáñá.
5. Áñíßíðá ðí áñ÷áßí modules, έάέ áóáέñÝóóá üέáð ðέð ó÷áðέέÝð íá ðí FreeBSD έάóá÷ññðáέð. ðñíóέÝóóá óá áέέÜ óáð modules áí ðí áðέέðíáðá.
- 6.

Όçíáßüόç: Όí áðíá áððü áßíáέ áðáñáððçðí íüñí áí Ý÷áðá ïñááέ έÜðíέá ðέíP óóçí ðáñÜíáðñí \$IDHEADER ðíð áñ÷áßíð `cfg_local.pm` (ç íðíßá äíðέáýáέ íüñí áóüóñí ÷ñçóέñíðíέáßá ðçí ðñíðíðíέçíÝýç Ýέäíόç ðíð CVS ðíð Ý÷áέ ðí FreeBSD).

Άέíñέðóá ðí áñ÷áßí options þóá íá óáέñέÜáέ íá ðí tag ðíð ïñááðá óðí áñ÷áßí `cfg_local.pm`. Íέá áíáέðçόç έάέ áíðέέáðΰóóáόç ðíð FreeBSD óá üέí ðí áñ÷áßí áßíáέ áñέáð.

7. Άðáíññάάόðáðá ðí áñ÷áßí `rcstemplate` þóá íá ðáñέÝ÷áέ óá ðáέá keywords íá áððÜ ðíð Ý÷áðá ïñááέ óðí `cfg_local.pm`.
8. ðñíáέñáðέέÜ, áóáέñÝóóá ðíðð áέÝá÷íðð ðíð FreeBSD áðü ðí áñ÷áßí `tagcheck`. Ìðíñáðá áðέÜ íá ðñíóέÝóóá `exit 0` óóçí áñ÷P ðíð áñ÷áßí áέá íá áðáíññáíðíέðáðá üέíðð ðíðð áέÝá÷íðð óðí tagging.
9. Όí óáέáððáßí ðñÜñíá ðíð ðñÝðáέ íá áßíáέ, áßíáέ íá óέáíðñáððáðá üέέ óá commitlogs ïðíñíý íá áðíέçέáððíýí. Óá CVS scripts ðíð FreeBSD áðíέçέáýíðí áððÜ óá logs óðíð ððíέáðÜέíñí commitlogs ðíð έáðáέüñíð CVSROOT. Áððüð í ðÜέáέðð ðñÝðáέ íá áçíέíðñáçέáß, ïðüðá έÜíðá óá áέüέíðέá:

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

Όðñá, áóíý áέÝáñáðá óá ðÜíðá ðñíóáέðέέÜ, έá ðñÝðáέ íá έÜíðá commit ðέð áέέááÝð óáð. Õñííðáðá íá áßóá ðáßíðñíέ üέέ Ý÷áðá áðáέ óðñí ááððü óáð ðñüóááόç óðñí ðÜέáέí CVSROOT ïÝóá áðü ðí áñ÷áßí `avail` ðñέí έÜíðá ïðέáððíðá, áóüóñí óóçí áíðáέðç ðáñðððüόç έá έέáέðáðáðá ðñí ááððü óáð Ýñ. Ìðüðá, ðñííðáðá óá ðÜíðá íá áßíáέ üðüð áðέέðíáðá, έάέ íüñí ðüðá áðóðá óá áέüέíðέá:

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

2.7 ΆíέέíÜáέííóáð ðçí Άáέáðΰóóáόç

Άßóá Ýóíέíέ áέá ðçí ðñðç óáð äíέέíP: íá forced commit óðí áñ÷áßí `avail`, áέá íá 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÷áñçððñέá! ,÷áðá έáðáóÝñáέ íá óðáðáðá íέá ðέðñüð έáέíðñáέέP ááέáðΰóóáόç ðñí FreeBSD scripts áέá ðí repository óáð. Óóçí ðáñðððüόç ðíð ðí CVS áíáέíðέáß íá ðáñáðñíέÝóáέ áέá έÜðέ, áðέóðñÝððá óóέð ðñíçáíýíáíð áíüðçðáð έάέ áέÝáñðá íáíÜ üέέ Ý÷áðá áέðáέÝóáέ óüóðÜ üέá óá ðñíçáíýíáíá áðíáðá.

3 Åéäêþ ÅãêáôÛóóáóç ôïõ FreeBSD Project

Οι Βαέι οι FreeBSD project ÷ ηςοείηδιεάβ ιεά άεάοηο άεάοηηάοέεP άεάάοÜοόάος, ς ιθίβα ÷ ηςοείηδιεάβ άδβόοò
 άη÷άβα άδύ οη όθροÜεάει freebsd οη CVROOT θη ÷ ηςοείηδιεάβόάε οοι FreeBSD. Οι project ÷ ηάεÜεάόάε εÜοέ
 οÝοιέι εüüο οη ιάάÜεηο άηέειηý οüι committers, θη άεάοηηάοέεÜ εά Ýθηάθά ιά άηPεηοι üειέ οοι Βαέι group. όοέ,
 άςιέιθηάPεςεά Ýιáo άδεüο wrapper ι ιθίβηο άοίý θηPόά άιάόόάεβάε όά οüοόÜ άεάδεόόάθδPηέά οüι committers,
 άεεÜεάε ιάδÝθάέόά οη group id όά άδóü οη repository.

Ἄν ἐὰς οἱ ἀεὺ οὐδὲν repository ÷ ἡεῦῤῥᾶδᾶς εὔδᾶς ἀῤῥᾶι, οἱ ἀῤῥᾶδᾶς δῖο εἰ δῖοῤῥᾶς ἰᾶ ἀεῖρᾶδᾶς ἀῤῥᾶς ἀεῖρᾶδᾶς
 δᾶῤῥᾶς. Ἀεῖῤῥ δῖοδᾶς ἀδ εὔῤῥᾶς ἰᾶ οὔῤῥᾶς ἀδᾶδᾶς οὔῤῥᾶς οὔῤῥᾶς ἀν ÷ ἀῤῥᾶς.

3.1 Άν÷άΒα ðïð ÷ñçóéïïðïéíýíóáé óôçí áéääêþ åääêåôÛóóáóç ðïð FreeBSD

- `access` - `οἱ ἀν÷ὰβι ἀδού ÷ἄε ὀέδ ὀεχνῖοῖνβᾶδ ἄεᾶ ὀᾶ ἄεἄεπῖᾶὀᾶ ὀνῖὀᾶὀᾶὀᾶὀᾶ. Ἐᾶ ὀνῖὀᾶἔ ἰᾶ ὀἰ ἄὀᾶἰᾶἰᾶὀᾶὀᾶὀᾶὀᾶ ἰᾶὀᾶἰᾶᾶ ῖὀὀἔ ὀᾶὀᾶ ἰᾶ ὀᾶἰᾶἰᾶἰᾶὀᾶἰᾶ ὀᾶ ὀᾶ ἰῖῖεῖ ὀἰὀ project ὀᾶὀ.`
- `freebsd/commitmail.pl` - `οἱ ἀν÷ὰβι ἀδού ἰᾶᾶ ÷ᾶεὀἰᾶὀἰᾶἰᾶὀᾶἔ ὀἔᾶ, ἰἔἔὀ ὀᾶἰᾶἰῖᾶἔ ἄἔᾶ ἔὀὀἰᾶἰᾶἔἰὀὀ ἔῖᾶἰὀὀ. Ἀᾶἰ ἔᾶ ÷ᾶἰἔὀὀὀὀ ἰᾶ ἄὀᾶἰᾶἰᾶὀὀὀὀὀὀὀ ἄὀὀὀ ὀἰ ἀν÷ὰβι.`
- `freebsd/cvswrap.c` - `ὀνῖἔἔὀᾶἔ ἄἔᾶ ὀἰἰ ὀεᾶᾶβι ἔὀᾶἔᾶ ὀἰὀ CVS wrapper ὀἰὀ ἔᾶ ὀνῖὀᾶἔ ἰᾶ ἰᾶἔὀὀὀὀὀὀὀὀὀ ἰᾶ ἰὀἰᾶὀὀὀὀ ἰᾶὀὀὀὀὀὀὀὀὀ. ὀᾶἰὀὀὀὀὀὀὀὀ ὀεχνῖοῖνβᾶδ ἄἔᾶ ὀε ἰἔᾶἔἔᾶὀὀὀ ἄὀὀ ἔᾶ ἰᾶἰὀὀὀ ὀᾶἰᾶἔὀὀ. Ἐᾶ ὀνῖὀᾶἔ ἰᾶ ἰἔἰᾶἰὀὀὀὀ ὀᾶ paths ὀὀὀ ACCESS ἔᾶἔ REALCVS ἰᾶἰᾶἰᾶἰὀὀὀὀ ὀᾶὀ ἰᾶ ὀᾶἰᾶἔὀᾶἰὀἰ ἰᾶ ὀε ἰἔἔὀ ὀᾶὀ ἰᾶἔὀὀὀὀὀὀὀὀ.`
- `freebsd/mailsend.c` - `οἱ ἀν÷ὰβι ἀδού ÷ᾶἰἔὀᾶὀὀᾶἔ ἄἔᾶ ὀεῖ ὀ÷ᾶὀὀἔὀ ἰᾶ ὀὀὀ ἔὀὀὀὀὀ ὀᾶ÷ὀᾶἰᾶἰὀὀ ἰᾶἔὀὀὀὀὀὀὀὀ ὀἰὀ FreeBSD. Ἀᾶἰ ἔᾶ ÷ᾶἰἔὀὀὀὀ ἰᾶ ὀᾶἰᾶὀᾶὀὀ ὀἰ ἀν÷ὰβι ἀδού.`

3.2 Ç äéáäéêáóßá

- [illegible]

Ôi áéëu iïõ áíôßôõðî ôiõ añ÷ǎßiõ cvswrap.c Ý÷ǎé óá áéüëiõëá:

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

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

l̥aôãæuôôßôâ ôiî êpãêêã ðiô Ý÷:âôâ Þãç æéiñèþóãé þóôâ íá ðãñéÝ÷:æé ôâ óúóôÛ paths:

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


