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2 Ðñþòç ÁãêáôÛóóáόç

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

2.1 Άñ÷êêìðìðçόç ôìò repository

Ôì ðñþò ðññÛáä ðìò êá ðñÝðáê íá êñíáôá üòáí óòþíáôá Ýíá íÝí repository áβίáê íá ðáðáò óòí CVS íá ôì áñ÷êêìðìðçόê:

```
% 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 óòçí ðìðá êá áíþêáê ôì repository. ¼êìê íê committers êá ðñÝðáê íá áíþêíòí óá áóòþ òçí ñÛáá, þóðá íá ðìññýí íá ãñÛíòí óòí repository. Áêá ôì óêìðü áóòü êá ðñçóêìðìêþóíòíá òçí βáêá ñÛáá ðìò ðñçóêìðìêáá êê' 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 íüêò ðñíóêÝóáôá, êÝòñíóáò Ýóóê òçí ñÛáá óòçí ðìðá áíþêáê í êáòÛêñäò:

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

Áóòü áíáóóáêþáê üòê êáíáðò ááí êá ðìñáβ íá ãñÛáê óòí repository áí ááí áíþêáê òçí 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 ðñüóáóòð FreeBSD CVS mirror. Άáðá ôì ó÷áóêêü êáòÛêáêí óòí áá÷áêñáêí (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/anoncvs.html) áêá ðáñêóóüðáñáò ðêçññíòñáò. Áò ððìêÝóíòíá üòê í ðçááβíò êþáêêáò êá áðìêêêáòóáβ óòñí êáòÛêñäí CVSROOT-freebsd ðìò áñβóêáóáê íÝóá óòñí òñÝ÷ííóá êáòÛêñäí.

2.4 ÁíóêáñÛíòíóáò óá scripts ôìò FreeBSD

¼óóáñá, áíóêáñÛíòíá ôñí ðçááβí êþáêêá áðü ôñí CVSROOT êáòÛêñäí ôìò FreeBSD óòí áêêü íáò repository. Áí áβóðá óòçêêóíÝñð íá ôì CVS, βóòð íá óáò ðáñÛóáê áðü ôì íóáêü íá ðñíóðáêþóáôá íá êñíáôá import óá scripts, óá íêá ðñíóðÛêáêá íá áβíáê ýóóáñá í óóá÷ññêóíðð íá óêò êáòìðêíÝð áêáüóáêò áðêñüðáñð. Ûóòüóí, áðñááêñýáóáê üòê ôì CVS ðáññíóêÛáê íêá áóóêáêòññáβá òçí ðáñêí÷þ áóòþ: ¼óáí áêóÛááòá ðçááβí êþáêêá ÝÝóá óòí CVSROOT òÛêáêí, ááí êá áçíáññêñýí óá áðáñáβçóá áñ÷áβá áêá÷áβñêóòð. Áêá íá ðññÝóáôá íá ôì êñíáôá íá óá áíáñññáò, êá ðñÝðáê

ιά εΰάόά checkin ίά ÷ ύνέόόΰ εΰεά άñ ÷ άβι άόύΰ Ψ ÷ άόά όάέάέόόάέ ίά όçí áέόάάüãP, ÷ ΰνιόάό Ψόόέ όçí άίβá όύδ
cvs import. ΆδñΨύδ, ç δñιόάέύιιιίç ιΨέιιιιδ άβιáέ άδΰΰ ίά άίόέάñΰόόά όά scripts.

Άάι άβιáέ έάέ όύόι όçίáíόέέü όι άί ç δάñάδΰύδ δάñΰάñάόύδ άάι όάδ ύάβιáόάέ δτεΰ ίάεΰεάñç—όι όάέέέü άδύδΨεΨόίá
άβιáέ όι βάέι. Άδΰΰ άεΨάíόά όύι CVSROOT ύΰέάέι έάέ άίόέάñΰόόά όά FreeBSD άñ ÷ άβá δΰύδ άδύ όά άέέΰ όάδ
όιδΰΰ (άδάβñá ÷ όά) άίόβñάόά:

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

Όçίáέόόά ύόέ δέέάύιόάόά έά δΰñάόά ίάñέέΨδ δñιáέüδτεPόάέδ ό ÷ άόέέΰ ίά όι ύόέ ίάñέέίβ ύΰέάέτε άάι έά
άίόέάñάόύι. Άάι δάέñΰάέ. Άάι όιόδ ÷ ñάέΰάόόά άόόύδ όιόδ έάόάέüιιόδ.

2.5 Tá scripts

Όπñá Ψ ÷ άόά όόύι ύΰέάέι άñάάόβáδ όάδ Ψίá áέñέáΨδ άίόβñάόύι όύι scripts δύδ όι βάέι όι FreeBSD project
÷ ñçόέιιδτεάβ όύι áέέü όύδ repository. Ίέá δάñβέççç όύδ όά όέ ÷ ñçόέίáΨάέ όι εΰεά άñ ÷ άβι δάñέέáíáΰίáόάέ δάñάέΰόü.

- access - όι άñ ÷ άβι άόόü άάι ÷ ñçόέίιδτεάβόάέ όόέδ όόίçέέόίΨίáδ άάέάόάόόΰόάέδ όύδ CVS. × ñçόέίιδτεάβόάέ üιι
όόçí áέáέέP άάέάόΰόόόç όύδ FreeBSD project, áέá ίά áεΨá ÷ άόάέ ç δñüόάάόç όόύι repository. Ίδñάβόά ίá
άόάέñΨόάόά άόόü όι άñ ÷ άβι άί άάι όάδ άίáέάόΨñáέ ίá ÷ ñçόέίιδτεPόάόά εΰόέ όΨόίέι όόç áέέP όάδ άάέάόΰόόόç.
- avail - όι άñ ÷ άβι άόόü áεΨá ÷ áέ όçí δñüόάάόç όόύι repository άίΰ έáδΰέιáι P άñ ÷ άβι. ΊΨόά όά άόόü, ιδñάβόά ίá
έáέιñβόάόά ñΰάάδ ÷ ñçόόβι όόύδ ιδñβιόδ εΨέάόά ίá άβόάά δñüόάάόç όόύι repository, üδüδ άδβόçδ έáέ ίá
άδάáñΨόάόá commits όά άδβδάáι έáόάέüιιόδ P άñ ÷ άβι. Έά δñΨδáέ ίá όι δñιόáñüüόάόά βόόά ίá δάñΨ ÷ áέ όέδ
ñΰάάδ ÷ ñçόόβι έáέ όιόδ όáέΨέιόδ δύδ έά όδΰñ ÷ ιόι όόύι áέέü όάδ repository.
- cfg.pm - όι άñ ÷ άβι άόόü άñιçíáΨάέ όέδ ñόέιβόάέδ όάδ έáέ δάñΨ ÷ áέ όέδ άι' ñέόύιΨ ñόέιβόάέδ. Άάι δñΨδáέ ίá
άέέΰίáόά άόόü όι άñ ÷ άβι. Άίόβέáόά, έá δñΨδáέ ίá όιδτεάδPόάόά όέδ áέέΨδ όάδ áέέááΨδ όόέδ ñόέιβόάέδ όόύι
άñ ÷ άβι cfg_local.pm.
- cfg_local.pm - όι άñ ÷ άβι άόόü δάñΨ ÷ áέ üέáδ όέδ ñόέιέáüιιáíáδ δάñáíΨδñιόδ όύδ όόόδPíáόύδ. Έá δñΨδáέ ίá
εΰίáόά ιδτεάόάβδύíά ñόέιβόάέδ όάδ άäp, üδüδ όά δτεά áέáΨέδύόç έá όόΨέñíόáέ όá email άδύ εΰέá commit, όá
δτεíόδ hosts έá άδέόñΨδáόάέ ίá áβñííόáέ commit, έέδ. Δάñέόóüδáñáδ δέçñιüιñβáδ ό ÷ άόέέΰ ίá άόόü έá άñάβόá
δάñάέΰόü.
- checkoutlist - όι άñ ÷ άβι άόόü δάñέέáíáΰίáέ üέá όá άñ ÷ άβá δύδ άñβόέιíόáέ εΰόδ άδύ όύι Ψέá ÷ ι όύδ CVS όόύι
έáδΰέιáι άόόü—üέá áέόüδ άδύ όá δñιέáέιñέόίΨίá άñ ÷ άβá δύδ áçιέíóñááβ ç άίόίεP cvs init. Έá δñΨδáέ ίá όι
άέέΰίáόά áέá ίá άόάέñΨόάόá ίάñέέΰ, ό ÷ άόέέΰ üιι ίá όι FreeBSD, άñ ÷ άβá.
- commit_prep.pl - όι script άόόü áέόάέáβ áέΰüιñιόδ áεΨá ÷ ιόδ δñέí άδύ εΰέá commit, άίΰέíáá ίá όέδ ñόέιβόάέδ
δύδ Ψ ÷ άόά εΰίáέ όόύι άñ ÷ άβι cfg_local.pm. Άάι έá ÷ ñάέάόόáβ ίá δάέñΰίáόά άόόü όι άñ ÷ άβι.
- commitcheck - όι script άόόü έáέáβόáέ áδάόέáβáδ άδύ όι CVS. Δñβόá áεΨá ÷ áέ, ÷ ñçόέίιδτεPίόάδ όι δñüáñáíá
cvs_acls.pl, άί ι committer Ψ ÷ áέ δñüόάάόç όόύι όδáέáñέíΨι ιΨñιόδ όύδ áΨíóñιόδ όύδ έβáέέá, έáέ ίáδΰ áέόáέáβ
όι commit_prep.pl δύδ áέόáέáβ όιόδ áέΰüιñιόδ pre-commit áεΨá ÷ ιόδ. Άί άάι όδΰñíáέ εΰδτεí δñüáέçíá όόύδ
áεΨá ÷ ιόδ άόόύδ, όüόá όι CVS έá άδέόñΨόáέ όόύι commit ίá όόíá ÷ βόáέ. Άάι έá ÷ ñάέάόόáβ ίá δάέñΰίáόά άόόü όι
άñ ÷ άβι.

- `commitinfo` - ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ÷ ἡçóεῖῖδῖεἄβδῶἄἄ ἄδῃ ὀῖ CVS ὀῖ ἰά ἄδῖὀἄὀὀἄἄ ὀῖεῖ script ἰά ἄἄὀἄἄἄἄ ὀῖἄ ἄδῃ ἄῖἄ commit—ὀç ἄἄἄ ἰἄδ ὀἄἡβδὸδὸç ἄδὸῃ ὀῖ ἡῖἄ ἄἄἄῖδὀἄἄ ὀῖ `commitcheck`. Ἀἄ ἄ ÷ ἡἄἄὀὀἄ ἰά ὀἄἡἡῖἄὀἄ ἄδὸῃ ὀῖ αἰ ÷ ἄβῖ.
- `config` - ὀῖ αἰ ÷ ἄβῖ ἡὀἄἄὀἄῖ ἄἄ' ἄδὸῃ ὀῖ repository. Ἐἄ ὀἡῖὀἄἄ ἰά ἄῖἄὀἄ ἄἄἄἄῖ ὀ' ἄδὸῃ ὀῖ αἰ ÷ ἄβῖ ἄῖἄἄἄ ἰά ὀἄὀ ἄῖἄἄὀ ὀἄὀ, ἄἄῖ ἰἄ ὀἄἡὀὀὀὀἄἡἄ ἄἄ ÷ ἄἡἡὀὀῖ ἰἄ ἄὀὀὀὀὀ ὀἄὀ ἄῖ' ἡἡὀῖῖ ἡὀἄἄὀἄὀ. ὀἄἡὀὀὀὀἄἡὀ ὀἄἄ ὀἄὀ ἄἄῖὀἡὀἄ ἄὀἄὀὀὀὀὀὀ ἄὀἄἄὀὀ ὀῖὀ ῖ ÷ ἄὀἄ ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ἰὀἡἄὀἄ ἰά ἡἡἄὀἄ ὀῖ ἄ ÷ ἄἡἡἄἄἄ ὀῖὀ CVS.
- `cvs_acls.pl` - ὀῖ script ἄδὸῃ ἄἄῖ ÷ ἄἄ ὀç ὀἄὀὀὀὀὀὀ ὀῖὀ committer, ἄἄ ἄ ἄὀὀἡῖὀὀὀ ἄὀὀὀ ἰά ῖ ÷ ἄἄ ὀἡὀὀὀὀ ὀῖ ἄῖὀἡὀ ὀῖ ἄὀἄἄ. Ἀὀὀ ἄἄἄἄ ἰά ἄῖὀ ὀῖ αἰ ÷ ἄβῖ `avail`. Ἀἄ ἄ ÷ ἡἄἄὀὀἄ ἰά ὀἄἡἡῖἄὀἄ ἄδὸῃ ὀῖ αἰ ÷ ἄβῖ.
- `cvsignore` - ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ἄἄἡἡἡἄῖὀὀἄ ὀἄ ἡ ÷ ἄἄ ὀῖὀ ὀῖ CVS ἡἄ ἄ ὀἡῖὀἄ ἰά ἄὀὀἡῖὀὀ ὀῖ `checkin` ὀῖὀ ὀῖὀ repository. ἰὀἡἄὀἄ ἰά ἄὀἄἡἡἡἄὀὀἄ ἄὀὀ ὀῖ αἰ ÷ ἄβῖ ἄῖἄἄἄ ἰά ὀἄ ἄἄῖὀ ὀἄὀ ὀἡὀἄἄὀἄὀ. ὀἄἡὀὀὀὀἄἡὀ ὀἄἄ ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ἄ ἡἡἄὀἄ ὀῖ ἄ ÷ ἄἡἡἄἄἄ ὀῖὀ CVS.
- `cvswrappers` - ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ÷ ἡçóεῖῖδῖεἄβδῶἄἄ ἄδῃ ὀῖ CVS ἄἄ ὀç ἄῖἡἡἡἡὀὀὀç ὀῖὀ keyword expansion, ὀ ἄἄ ὀῖ ἄ ἄῖὀἄἄ ἡ ÷ ἄἄ ἄ ὀἡῖὀἄ ἰά ἄὀἄἄὀὀὀὀὀὀὀ ἡὀ binary. ἰὀἡἄὀἄ ἰά ὀἄἄἡἡἡἡὀὀἄὀἄ ἄὀὀ ὀῖ αἰ ÷ ἄβῖ ἄῖἄἄἄ ἰά ὀἄ ἄὀἄὀὀὀὀ ὀἄὀ. ὀἄἡὀὀὀὀἄἡὀ ὀἄἄὀὀὀὀὀὀ ὀ ÷ ἄὀἄἄῖ ἰά ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ἰὀἡἄὀἄ ἰά ἡἡἄὀἄ ὀῖ ἄ ÷ ἄἡἡἄἄἄ ὀῖὀ CVS. ὀçἰἄἄὀὀἄ ὀὀὀ ἰἄ ἄὀἄἄῖὀ ÷ ἄ ἄἄ ἄ ἄὀἄῖὀὀ ὀὀὀὀ ἄἄ client/server ÷ ἡὀç ὀῖὀ CVS.
- `edithook` - ὀῖ αἰ ÷ ἄβῖ ἄδὸῃ ἡἄ ὀ ÷ ἡçóεῖῖδῖεἄβδῶἄἄ ὀἄἄ, ἄἄῖ ἄῖἄἄἄὀὀὀ ἰά ὀὀῖἡ ÷ ἄἄ ἄἄ ἄὀὀἡἄἄῖὀ ἄῖἄὀὀ. ἰὀἡἄὀἄ ἰά ὀὀὀὀὀ ἄὀὀ ὀῖ αἰ ÷ ἄβῖ.
- `editinfo` - ὀῖ CVS ÷ ἡçóεῖῖδῖεἄβ ἄὀὀ ὀῖ αἰ ÷ ἄβῖ ἄἄ ὀἄἡῖἄὀç ὀῖὀ editors. ὀῖ FreeBSD ἡἄ ὀ ÷ ἡçóεῖῖδῖεἄβ ἄὀὀ ὀç ἄἄὀὀἡἄἄἄὀὀὀ ἄἄὀὀ ç ἡἡçἰἄὀὀ ὀῖὀ log ἰçῖἰἄὀὀ ἄἄἄὀἄ ἄὀὀ ὀἄ `verifymsg` ἄἄ `logcheck` ἡ ÷ ἄἄ. Ἀὀἄῖἰἄ ἰά ἄἄἄὀἄ ῖὀὀ ἄὀὀ ἄὀἄἄὀ ç ÷ ἡὀç ὀῖὀ `editinfo` ῖ ÷ ἄἄ ἄῖὀἄ ὀἡἄἄὀἄὀ ἰά ὀἄ `commits` ἄὀὀ ἰἄἡἡῖ ἄἄ ἰά ὀἄ `commits` ὀῖὀ ÷ ἡçóεῖῖδῖεῖῖ ὀἄὀ ἄὀἄἄῖὀ ÷ `F` ὀ ÷ `F`. Ἀἄ ἄ ÷ ἡἄἄὀὀἄ ἰά ὀἄἡἡῖἄὀἄ ἄὀὀ ὀῖ αἰ ÷ ἄβῖ.
- `exclude` - ὀῖ αἰ ÷ ἄβῖ ἄὀὀ ὀἄἡῖὀ ÷ ἄἄ ἄῖἡἡἄῖὀ ἄἄὀἡὀὀὀὀ (regular expressions) ὀῖὀ ÷ ἡçóεῖῖδῖεῖῖὀὀὀ ἄὀὀ ὀῖ ὀἡἡἡἡἡἡ `commit_prep.pl` ἄἄ ἰά ὀἡὀἄἄἡἡὀὀὀὀ ὀἄ ἡ ÷ ἄἄ ὀῖὀ ἡἄ ἄἄἄἄ ἄὀἡἄὀὀὀ ἰά ὀἄἡῖὀ ÷ ὀὀ ἄὀἄἄὀἄἄἄ ἄὀὀὀὀὀὀ (revision header). ὀçῖ ἡἄἄὀὀὀὀὀ ὀῖὀ FreeBSD, ἡἄ ὀἄ ἡ ÷ ἄἄ ἄῖὀ ἄὀὀ ῖἄἄ ÷ ἰ ἄὀὀὀὀὀὀὀ (revision control) ἡἄἄ ἄὀἡἄὀὀὀ ἰά ὀἄἡῖὀ ÷ ὀὀ ἰἄ ἄὀἄὀὀὀὀ ἄὀὀὀὀὀὀ (ὑὀὀ `$FreeBSD$`). ῖἄ ὀἄ ἡἡἡὀἄ ἡ ÷ ἄἄῖ ὀὀ ὀἄἡἡὀὀὀ ἰ ὀὀὀὀ ÷ ἄὀὀ ἰἄ ἄὀὀ ὀἄ ἡἡἡὀ ὀῖὀ ἡ ÷ ἄἄῖ ἄὀὀὀ ἡἡἡὀὀὀὀ ἄὀὀ ὀῖ ὀἄἄἄἡἡἡὀ ῖὀ ῖἄἄ ÷ ἰ. Ἐἄ ὀἡῖὀἄ ἰά ὀἡὀὀὀὀὀ ὀἄ ἄῖἄἄὀ ἄῖἡἡἄῖὀ ἄὀὀἡὀὀὀὀ ὀῖ αἰ ÷ ἄβῖ ἄὀὀ ὑὀἄ ἄῖἄὀὀ `checkin` ἡ ÷ ἄἄ ὀὀ ἡἄἄ ἄὀἡἄὀὀὀ ἰά ὀἄἡῖὀ ÷ ὀὀ ἄὀἄὀὀὀὀ ἄὀὀὀὀὀὀ. Ἐἄὀ ὀç ἄἄἡἡἄἄ ὀç ἡἄἄὀὀὀὀὀ ὀῖὀ ῖῖὀ scripts ἄἄῖ ÷ ὀὀ, ὀὀὀ ἰά ἡἄἄ ἄἄῖὀἄἡ ἰ ἄῖἄἡἄὀὀ ἰ ἄὀὀὀὀὀ `CVSROOT/` ἄὀὀ ὀῖὀ ῖἄἄ ÷ ἰ ὀῖὀ headers.
- `log_accum.pl` - ὀἡἡἡἄἄἄ ἄἄ ῖἄ script ὀῖὀ ὀἄἡἡἄἄ ὀῖ log ἰὀὀἄ ὑὀὀ ἄὀὀ ἡἄἄὀἄ ἄὀὀ ὀῖ `logcheck` script, ἄἄ ὀῖ ὀἡὀὀὀὀὀ ὀῖ ὀῖὀ ἡῖὀ ἡ ÷ ἄἄὀ log ὀῖὀ repository, ῖὀὀ ὀὀὀ ἰά ὀὀῖ ÷ ὀὀ ἄὀὀἡἡὀὀ ἄὀὀἄἄὀ ἄὀὀ ὀἄ `commit logs`. Ἀὀὀç, ἄῖἄἄἡὀἄἄ ἰά ὀὀὀὀ ῖἄ ἡἄ ὀçῖ email ἄἄῖὀὀὀç ὀῖὀ ῖ ÷ ἄὀ ἄçὀὀἄἄ (ὀῖὀ `cfg_local.pm`). ὀὀἡἡἡὀὀὀ ἰ ὀῖ CVS ἰῖὀ ὀῖὀ ἡ ÷ ἄἄὀ `loginfo`. Ἀἄ ἄ ÷ ἡἄἄὀὀἄ ἰά ὀἄἡἡῖἄὀἄ ὀῖ αἰ ÷ ἄβῖ ἄὀὀ.
- `logcheck` - ὀῖ αἰ ÷ ἄβῖ ἄὀὀ ἡἡçἰἄῖἄ ὀῖ `commit log` ἰὀὀἄ ὀῖὀ ὀἄἡῖὀ ÷ ὀὀ ἰἄ `committers`, ἄἄ ὀἡὀὀὀὀ ἄὀὀ ἄῖὀὀὀ ὀἡὀ ἰ ὀῖ ἄῖἡἡἡὀὀὀὀὀὀ. ὀὀἡἡἡὀὀὀ ἰ ὀῖ CVS ἰῖὀ ὀῖὀ ἡ ÷ ἄἄὀ `verifymsg`. Ἀἄ ἄ ÷ ἡἄἄὀὀἄ ἰά ὀἄἡἡῖἄὀἄ ὀῖ αἰ ÷ ἄβῖ ἄὀὀ.

ΌγιαΒυός: Όι script άίάηόΌόάέ άδύ ίεά όιόέέP άέέάP όιό FreeBSD όόι **CVS:** Ç άέέάP άόόP ίάίάάέάάUάέέ όι log ιPιόίά άόίY άόόU Ý÷άέ όηιόιόίέçέάB άδύ όι script. Ç έάίίέέP Ýέάιός όιό **CVS** όηιόάίπο άάί εUίάέ εUόέ όYόίέί, ιδύόά όι **logcheck** άά ιδιήάB ίά εUίάέ ίέέηίάέίηέπόάέό όόι log ιPιόίά, άέέU ιδιήάB ίά άέYάίάέ υόέ όι ιPιόίά άάί Ý÷άέ όόίόάέόέU εUέç. Άδι όγι Ýέάιός 1.11.2 έάέ ίάόU όι Bάέί όι **CVS** ιδιήάB ίά ηόέιέόόάB ίά Ý÷άέ όγι Bάέά όόιόάήέόιηU ίά άόόP όιό Ý÷άέ ç Ýέάιός όιό FreeBSD ίά όγι άέέέίάP RereadLogAfterVerify=always όόι άñ÷άBι config.

- [illegible]

2.6 Ôñïðïðïépíôáò ôá scripts

[illegible]

1. Áí ááí ēYēāōā íá ÷ñçóéúíðíēíPóāōā óēō ēāēōíñāāōō óúí scripts íē íðíāō ÷ñçóéúíðíēíYíōāē āđíēēāēóōēēŪ āđú ðí FreeBSD, íðíñāōā íá āōāēñYōāōā íā āōōŪēāēā ðí āñ÷āñí access:

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

2. Ἀείνεþóðá õĩ añ÷ãßĩ avail þóðá íá ðañéÝ÷æ õĩõð æÛõĩñĩõð óæÝẽĩõð õĩõ repository óõĩõ ãðĩBiõð èÝéaðá íá æÝãñáðá õçĩ ðñũóáας. Óéãĩñãðóðãßá uõe éà áéáõçñÞóðáðá árÝðäöç õçĩ avail | CVSROOT ãñãñP, áéáÜëèùð éà áðĩëéãßóðáðá áéũíá éáé õĩĩ ááòüü óáo ìá õĩ áðũĩáĩĩ áçĩá.

Àεòυò áσóιγύ óðί óσáέáéñéíΥή άñ ÷άβί ίδññáßòá íá áέóÜááòá éáé ηÜááo áðu committers. Άí' ηñέóιγý, όι FreeBSD ÷ñçόέηüðíéáß όι άñ ÷άβί access áéá όçί όιðñέÝόçόç üèüí òüí committers, áέéÜ ίδññáßòá íá ÷ñçόέηüðíéPóáòá üðñέí Üέéí áðέéöíáßòá. Ιδññáßòá áðßόçòó íá ðñíóéÝóáòá éáé ηÜááo áí όι áðέéöíáßòá (ç óýíóáiç éáέññßæáðáé óóçί éññóðP όιò άñ ÷άβίò cvs_acl.s.pl).

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 άάάίάñáÜæííóáé áδú óá log scripts, έάέ öíðíεάöííóáé έÜòú áδú öí mail öíö έÜεά commit áí öðÜñ÷íöí έάέ äáí äßíáέ έárÝð öóí íÞíöíá öíö commit. ÄáíέέÜ, íðíñáßöá íá áóáέñÝóáðá öéð έáóá÷ üñÞóáέð PR έάέ MFC after—áóíÝ áóðÝð ó÷ äöβæííóáé íá öí bug tracking óýóóçíá öíö FreeBSD έάέ öíí öñüðí ðíö áέá÷ áέñßæáðáé öí FreeBSD óá branches öíö repository öíö. Έάέ öðóέέÜ íðíñáßöá íá ðñíóέÝóáðá öéð äέέÝð óáð.
- `$MAIL_BRANCH_HDR` - Áí έÝέáðá íá ðñíóðβέáðáé áóðüíáóá íέá áðέέáóáέβää óá έÜεά commit íÞíöíá mail, ç íðíßá έá ðñáέñÜöóáé öí branch öóí íðíßí Ýáέíá öí óðáέáñέñíÝíí commit, íñßóðá öçí öέíÞ áóðÞ íá óáέñέÜæáέ íá öçí áέέÞ óáð äáέáðÜóóáóç. ÁöÞóðá öçí έárÞ áí äáí áðέέöíáßöá íá ðñíóðβέáðáé áóðüíáóá íέá öÝöíέá áðέέáóáέβää.
- `@COMMIT_HOSTS` - Íñßóðá öçí öέíÞ áóðÞ óá íέá έßóðá áδú óóóðíáðá (hosts), áδú óá íðíßá áðέöñÝðáóáé íá äßíííóáé commits.
- `$MAILADDRS` - Ñðéíßóðá áóðÞ öçí öέíÞ öóí email öíö áέá÷ áέñέóðÞ Þ óá íέá áέáyέðíóç έßóðáð öóçí íðíßá έÝέáðá íá ðçääáßííöí óá mail öüí commit íçíöíÜðüí.
- `@LOG_FILE_MAP` - ÁέέÜíðá áóðü öí array üðüð áðέέöíáßöá. ÊÜεά regexp áíðέóðíé÷ áß öóí óðáέáñέñíÝíí öÜεáέí öóíí íðíßí áßíáðáé öí commit, έάέ öí log íÞíöíá öíö commit áðíεçέáyáðáé έÜòú áδú öíí έáðÜέíäí CVSROOT, öóíí öðíέáðÜέíäí commitlogs, öóí äñ÷áßí ðíö áíáóÝñáðáé öóçí áíóßóðíé÷ ç äāāñáöÞ öíö ößíáέá `@LOG_FILE_MAP`.
- `$COMMITCHECK_EXTRA` - Áí äáí έÝέáðá íá ÷ñçóέííðíéÞóáðá öíöð βáέíöð äéÝā÷íöð ðñüóááóçð íá öí FreeBSD, έá ðñÝðáέ íá áóáέñÝóáðá öíí íñέóíü öçð öέíÞð `$COMMITCHECK_EXTRA` áδú öí äñ÷áßí áóðü.

ΌçiaBuòç: Ç äëëäâP òçò ðãñáíYòññò §IDHEADER äßíäë äääòçíYññ üòë èä äñöëYðäë üññ óä ðëäóðññíäò FreeBSD. ÁíáñòÜòäë äðü äëäëëYð íäðáóñññYð òñò FreeBSD óññ **CVS**.

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

4. Άðáíññάάόðáðá ðí áñ÷áßí exclude áέά íά áóáέñÝóáðá ðέð áέáέέÝð 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 ááέάðáóðáέáß í wrapper, ïðíñáðá íά ðñíóέÝóóá ðí áέέü óáð header óóá áñ÷áßá ðíð ãñáðέñíóáέ íÝóá 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 áóáέñÝóóá üέáð ðέð ó÷áðέέÝð íá ðí FreeBSD έάóá÷ññðóáέð. ðñíóέÝóóá óá áέέÜ óáð modules áí ðí áðέέðíáðá.
- 6.

Όçíáßüóç: Όí áðíá áððü áßíάέ áðáñáððçðí íüñí áí Ý÷áðá ïñááέ έÜðíέá ðέíð óççí ðáñÜíáðñí \$IDHEADER ðíð áñ÷áßíð cfg_local.pm (ç íðíßá äíðέáýáέ íüñí áðüóñí ÷ñçóέñíðíέáßáðá óççí ðñíðíðíέçíÝýç Ýέäíóç ðíð CVS ðíð Ý÷άέ ðí FreeBSD).

Άέíñèðóáð ðí áñ÷áßí options þóðá íά óáέñέÜáέ íá ðí tag ðíð ïñááðá óðí áñ÷áßí cfg_local.pm. Íέά áíáάððçç έάέ áíðέέáðΰóóáóç ðíð FreeBSD óá üέí ðí áñ÷áßí áßíάέ áñέáð.

7. Άðáíññάάόðáðá ðí áñ÷áßí rcstemplate þóðá íά ðáñέÝ÷άέ óá ßáέά keywords íá áððÜ ðíð Ý÷áðá ïñááέ óðí cfg_local.pm.
8. ðñíáέñáðέέÜ, áóáέñÝóóá ðíðð áέÝá÷íðð ðíð FreeBSD áðü ðí áñ÷áßí tagcheck. ïðíñáðá áðέÜ íά ðñíóέÝóóáðá exit 0 óççí 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 áçíέíðñáçέáß, ïðüðá έÜíðá óá áέüέíðέá:

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

Όðñá, áóíý áέÝáíñáðá óá ðÜíðá ðñíóáέðέέÜ, έá ðñÝðáέ íά έÜíðá commit ðέð áέέááÝð óáð. Õñííðóóá íά áßóóá óßáíðñíέ üέέ Ý÷áðá áðáέ óðñí ááððü óáð ðñüóááóç óðñí ðÜέáέí CVSROOT íÝóá áðü ðí áñ÷áßí avail ðñέí έÜíðá ïðέáððíðá, áðüóñí óççí áíðßέáðç ðáñßððüóç έá έέáέððáðá ðñí ááððü óáð Ýñ. ïðüðá, ðñííðóóá óá ðÜíðá íά áßíáέ üððð áðέέðíáðá, έάέ íüñí ðüðá áðóðá óá áέüέíðέá:

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

2.7 ΆíέέíÜáέííðáð óççí Άáέáðΰóóáóç

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

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

¶í üέá ðÜíá έáέÜ, óðá÷áñçðÞñέá! ,÷áðá έáðáóÝñáέ íά óððáðá íέά ðèÞñüð έáέíðñáέέð ááέáðΰóóáóç ðñí FreeBSD scripts áέá ðí repository óáð. Óççí ðáñßððüóç ðíð ðí CVS áíáέíðέáß íά ðáñáðñíέÝóáέ áέá έÜðέ, áðέóðñÝððá óóέð ðñíçáíýíñáð áíüðçðáð έάέ áέÝáíðá íáíÜ üέέ Ý÷áðá áέðáέÝóáέ óüóðÜ üέá óá ðñíçáíýíñá íáðíáðá.

3 Åéäêþ ÄãáoÜóôáoç ôïõ FreeBSD Project

Οι Βαέι οι FreeBSD project ÷ ηςοείηθιέας ιέα άεάοηθο άεάοιηάοέεθ άεάοÜοάοός, ς ιθιβα ÷ ηςοείηθιέας άδθόςο άη÷άβα άδθ οι οθροÜεάει freebsd οιθ CVSROOT θιθ ÷ ηςοείηθιέαςοάε οθι FreeBSD. Οι project ÷ ηάεÜεάοάε εÜοέ οÝοιέι ευάθ οιθ ιάαÜειθ άηέειηρ ούι committers, θιθ άεάοιηάοέεÜ εά Ýθηάθ ιά άιθιθιθ υέιέ οθι Βαέι group. ρόε, άçιέιθηάθεçεά Ýιáo άδευθ wrapper ι ιθιθιθ άοίρ θηθθα άιáoöάεθάε όά ούοόÜ άεάέεόάοθθηέά ούι committers, άεεÜεάε ιάοÝθάέόά οι group id όά άόοθ οιθ repository.

Ἄν ἐὰν οἱ ἀέεῦ ὁὰδ repository ÷ nāēÜ̃äâðäē eÜ̃ðē áŮ̃Ů̃etāi, ðä äÞiáðä ðið eä ðñŸðäē íä äeterðēðöäðä äeterðēŷíð
 ðañäēÜ̃ðū. ÁēēÜ̃ ðñðöä äð eÜ̃ññä íēä öŷiðñc äðēöēüðcðc ðūi ö÷ äðēēŷi äñ÷äâŷi.

3.1 Άν÷άΒα ðĩ ÷ñçóèĩĩðĩéĩýĩôáé óôçĩ áéáéêþ åãéåôÛóôáóc ôĩõ FreeBSD

- `access` - `οἱ ἀν÷ὰβι ἀδού` ἀέ Ἰα÷ἀέ οέδ δέçññöññßàð áéá óá áééáéñíáðá ðñúóááóçð. Èá ðñÝðáé íá οἱ áðáñáñááóóáßðá áñÙεἰάá Ḳóóé þóðá íá ðáñééáñáÙἰáé üéá óá ìÝέç öñð project óáð.
- `freebsd/commitmail.pl` - `οἱ ἀν÷ὰβι ἀδού` ááñ ÷ñçóεἰðñéáßðáé ðéá, áééÙ ðáñáñÝἰáé áéá éóóññééñýð éúáñðð. Ááñ éá ÷ñáéáóóáß íá áðáñáñááóóáßðá ἀδού οἱ ἀν÷ὰβι.
- `freebsd/cvswrap.c` - ðñüéáéðáé áéá οἱ ðçááβι éþáééá öñð CVS wrapper ðñð éá ðñÝðáé íá ááéáóáóðþáððá áéá íá ìðñÝóñññ üεἰé ðé Ḳéáá÷ðé ðñúóááóçð ðáéééÙ íá áñðéÝñññ. Ðáñéóóúðññáð δέçññöññßàð áéá ðç áéááééáðá áððð éá áñáßðá ðáñáéÙðð. Èá ðñÝðáé íá áéññéþóáððá óá paths óóéð ACCESS éáé REALCVS ìáéññáñññéÝð þóðá íá óáéñéÙáñññ ìá ðç áééð óáð ááéáðÙóóáóç.
- `freebsd/mailsend.c` - `οἱ ἀν÷ὰβι ἀδού` ÷ñáéÙááðáé áéá ðçñ ó÷áðééð ìá óéð éßóóáðð óá÷ðáñññáßñð ááéáðÙóóáóç öñð FreeBSD. Ááñ éá ÷ñáéáóóáß íá ðáéñÙἰáðá οἱ ἀν÷ὰβι ἀδού.

3.2 Ç äéáäëêáóßá

1. $\tilde{\text{A}}\epsilon\iota\eta\epsilon\pi\acute{o}\delta\alpha\ \acute{o}\iota\ \acute{\alpha}\eta\div\tilde{\text{A}}\beta\iota\ \text{access}\ \mu\acute{o}\delta\alpha\ \acute{\iota}\acute{\alpha}\ \delta\alpha\eta\epsilon\acute{\Upsilon}\div\acute{\alpha}\epsilon\ \acute{\iota}\upsilon\acute{\iota}\iota\ \acute{o}\iota\ \acute{\alpha}\epsilon\acute{\epsilon}\upsilon\ \acute{o}\acute{\alpha}\delta\ \text{username}.$
2. $\tilde{\text{A}}\epsilon\iota\eta\epsilon\pi\acute{o}\delta\alpha\ \acute{o}\iota\ \acute{\alpha}\eta\div\tilde{\text{A}}\beta\iota\ \text{cvswrap.c}\ \mu\acute{o}\delta\alpha\ \acute{\iota}\acute{\alpha}\ \delta\alpha\eta\epsilon\acute{\Upsilon}\div\acute{\alpha}\epsilon\ \acute{o}\iota\ \acute{o}\upsilon\acute{o}\upsilon\ \text{path}\ \acute{\alpha}\acute{\epsilon}\acute{\alpha}\ \acute{o}\zeta\ \acute{\alpha}\epsilon\epsilon\text{P}\ \acute{o}\acute{\alpha}\delta\ \acute{\alpha}\acute{\alpha}\acute{\epsilon}\acute{\alpha}\acute{o}\tilde{\text{U}}\acute{o}\acute{o}\acute{\alpha}\acute{o}\zeta. \acute{\text{A}}\acute{o}\delta\upsilon\ \acute{\iota}\eta\text{B}\acute{\alpha}\acute{o}\acute{\alpha}\acute{\epsilon}\ \acute{\iota}\delta\ \acute{\iota}\acute{\epsilon}\acute{\alpha}\ \acute{\iota}\acute{\alpha}\epsilon\eta\acute{\iota}\acute{\alpha}\acute{\iota}\acute{o}\iota\epsilon\text{P}\ \acute{o}\iota\acute{o}\ \acute{\iota}\eta\tilde{\text{U}}\acute{\alpha}\acute{o}\acute{\alpha}\acute{\epsilon}\ \text{ACCESS}. \acute{\text{E}}\acute{\alpha}\ \delta\eta\acute{\Upsilon}\delta\acute{\alpha}\epsilon\ \acute{\alpha}\delta\text{B}\acute{o}\zeta\ \acute{\iota}\acute{\alpha}\ \acute{\alpha}\acute{\epsilon}\acute{\epsilon}\tilde{\text{U}}\acute{\iota}\acute{\alpha}\acute{o}\acute{\alpha}\ \acute{\epsilon}\acute{\alpha}\epsilon\ \acute{o}\iota\ \acute{\iota}\upsilon\eta\acute{\alpha}\ \acute{\alpha}\eta\div\tilde{\text{A}}\beta\iota\acute{o}\ \acute{o}\iota\acute{o}\ \delta\eta\acute{\alpha}\acute{\iota}\acute{\alpha}\acute{o}\acute{\epsilon}\acute{o}\acute{\epsilon}\acute{\Upsilon}\ \text{cvs}\ \text{binary}\ \acute{\alpha}\acute{\iota}\ \acute{\alpha}\acute{o}\delta\text{P}\ \acute{o}\iota\acute{o}\ \acute{o}\delta\tilde{\text{U}}\eta\div\acute{\alpha}\epsilon\ \acute{\alpha}\acute{\alpha}\ \acute{\alpha}\beta\acute{\iota}\acute{\alpha}\acute{\epsilon}\ \zeta\ \acute{o}\upsilon\acute{o}\delta\text{P}\ \acute{\alpha}\acute{\epsilon}\acute{\alpha}\ \acute{o}\zeta\ \acute{\alpha}\epsilon\epsilon\text{P}\ \acute{o}\acute{\alpha}\delta\ \delta\acute{\alpha}\eta\text{B}\delta\acute{o}\delta\upsilon\acute{o}\zeta. \acute{\text{O}}\acute{\iota}\ \acute{\epsilon}\acute{\alpha}\acute{\iota}\acute{\iota}\acute{\epsilon}\acute{\epsilon}\upsilon\ \text{cvswrap.c}\ \acute{\epsilon}\acute{\alpha}\upsilon\eta\eta\acute{\alpha}\ \delta\upsilon\delta\ \acute{\epsilon}\acute{\alpha}\ \acute{\alpha}\acute{\iota}\acute{o}\acute{\epsilon}\acute{\alpha}\acute{o}\acute{\alpha}\acute{o}\delta\text{P}\mu\acute{o}\acute{o}\acute{\alpha}\ \acute{o}\zeta\acute{\iota}\ \acute{\alpha}\acute{\iota}\acute{o}\iota\epsilon\text{P}\ \text{cvs}\ \acute{o}\acute{\alpha}\ \acute{\alpha}\delta\text{B}\delta\acute{\alpha}\acute{\alpha}\ \acute{o}\acute{o}\acute{o}\delta\mu\acute{\iota}\acute{\alpha}\acute{o}\iota\ \acute{\iota}\acute{\alpha}\ \acute{o}\iota\ \text{cvwrap}, \acute{\epsilon}\acute{\epsilon}\ \zeta\ \acute{\alpha}\eta\div\acute{\epsilon}\epsilon\text{P}\ \acute{\alpha}\acute{\iota}\acute{o}\iota\epsilon\text{P}\ \text{cvs}\ \acute{\epsilon}\acute{\alpha}\ \acute{\iota}\acute{\alpha}\acute{o}\acute{\alpha}\acute{o}\acute{\alpha}\eta\acute{\alpha}\ \acute{o}\acute{o}\iota\ \acute{\alpha}\eta\div\tilde{\text{A}}\beta\iota\ /\text{usr/bin/ncvs}.$

Ôi áéêü iîõ áíôßôõðî ôîõ ãñ÷ãßîõ cvswrap.c Ý÷áé ôá áéüëîëá:

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

- [illegible]

l̂aôãæuôôßôâ ôiî êpãêêä ðiö Ý÷:âôâ Þäç æéiñèþóáé þóôâ íá ðãñéÝ÷:æé ôá ouóôÜ paths:

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


Ὁδὸς ὁδοῦ ὙΨ-ἀέα ἀἰεαὶἀόἀοἀοἀοἀο ἀὶ ἱΥῖ cvs ἀεὶἀἰΨόεῖ ἀεῖεῖῖῖῖῖῖῖῖ ἀὰ ἀεῦεῖῖῖῖῖ ἀῖῖῖῖῖ (εὰ ὁῖΥῖῖῖ ἰὰ ἀῖῖῖῖ root ἀέα ὁῖ ἀῖῖῖ ἀὼδου):

```
# 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 οἱ wrapper οάι οçi αἱ ἱνέοιῖ cvs αἰοῖεP, εῦἱἱοάο Ὑόοε οβἱαῖοἱι uοε ἰοῖεῖοἱPοῖοἱ εἱεPοἱε ἰά
 ÷ἡçοεἱἰοῖεPοἱε οἱ repository, εἱ ὃἡὙἱἱε ἰά Ὑ ÷ἱε οἱ εἱοῦἱεçἱ ἱἱἱἱἱ ὃἡἡοἱἱçò.

4. Ἰδιναβὼα ὀπνά ἰά ἀοάεν Ὑῶαδῶα ὑεῖρὸδ οἰτὸδ ÷ ἡβῶαδὸ ἀδῦ οἱ repository group ὁάδ. 1/4εῖε ἰε Ὑεᾶᾶ÷ῖε ὄἡῡῶᾶῶςδ ἐὰ ᾱβῖῖῖῖῶᾶε ἀδῦ οἷῖ wrapper, ἐὰε ἰ βᾶεῖδ ἰ wrapper ἐὰ εὐῖῶᾶε οἱ ἀῖῖῖῖῖῖ group ἰὰ οἱ ὀῖβῖ ἐὰ ᾱβῖᾶῶᾶε ἐὰε ς ὀᾶεῖῖῖ ὄἡῡῶᾶῶς.

3.3 ÅĖÝã÷ííôáò ôçí åãêáôÛóôáóç

İ wrapper ðñÝðǎé ðēÝñí íá áßíáé Ýðíēñò. Ìðññǎßòǎ ööóéēÛ íá ôî äñēēìÛóáòǎ êÛññíóáò Ýíá forced commit óôí añ÷÷ǎßí access:

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

ÎáíÛ, áí áõõü áðïõ÷÷æ, æÝãîã üöë üéã ôã ðãñãÛüü âÞíãã Ý÷ïï æêãããóããß óúóÛ.