

## 1

## 2 Đñþòç ÅãêáôÛóôáoç

**ΔηϊάεαῖοῖΒρζος:** Ἀβιάε εαεΡ εαΎά ιά αεοαεΎοαοά αέα δηρδς οῖηῦ αοδΡ ος αεααεεαοά ÷ ηζοεῖοῖεῖρῖαο Ὑία εαῖῦ αῖεεῖαοοεεῖ repository, αέα ιά Ἀβιάε ἈΎααεῖ ὑοε εα εαοάῖΡοαοά ὑεαο οεο οοῖΎδαεαο. Δῆεῖ ἱαεεῖΡοαοά οεαῖοῖαοοαοά ὑοε Ὑ÷αο δῆῦοοαοά backups, οά ἱδῖΒά ἁααοιῖὙία αῖοεαῖοῖ!

## 2.1 Áñ÷éêïðïßçóç ôïõ repository

Òi ðηποι ðηÜäia ðïð ëä ðηÝðäë íá ëÜíáðä üðáí óðÞíáðä Ýíá íÝí repository áßíáë íá ðäÞðä óðí **CVS** íá ðí  
 áñ÷-ëëíðíëÞðäë:

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

Áðöü ëÝáé öôi **CVS** íá äçieíõñāÞóáé öíí öÜêäëí äéá÷åÞñéóçð **CVSROOT**, üðíõ öóíäááßíííí üêàð íé ðañáíäòñíðíéÞóáéð.

## 2.2 Ç ĩŮää ôĩõ repository

[illegible]

```
# pw groupadd ncvs
```

ÌàòÙ, èá ðñÝðáé íá àèòáéÝóàòá òçí áíòíèÞ chown(8) óðíí òÙèàèí ìá ðánÙìàòñí òçí ñÙáá ðíò ìùèò ðñíóéÝóáòá, èÝóííóáò Ýóóé òçí ñÙáá óòçí ìðíßá áíðèáé ì èáòÙèíàò:

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

Áõöü âíáoöäëßæäé üôê êáíåò äái èà ìďĩñåß íá ãñÛøäé óôï repository áí äái áíÐêäé óôcí óúóôÐ ñÛäá.

## 2.3 Đáßñĩĩĩôáo ôĩĩ ỏçãáßĩ êpăéeêá

Όπρᾱ ἐὰ δὴ Ὑδαεῖ ῥά ἀδιδεῖσθαι οὐκ ἐὰδ' Ὑδαῖ. `CVSROOT` αὐτοῦ οἱ repository οἷο FreeBSD. Ἀδοῦ ἀβῖσθαι ἀγῆεα, εὐφροδᾶν check out αὐτοῦ Ἰῥα ἀφῆε· οὐδὲ δὴ οὐαῶσθαι FreeBSD CVS mirror. Ἀβῖσθαι οἱ ὁ· ἀδεῦν ἐὰδ' Ὑδαῖ οἷο ἀ· ἀεῖσθαι ([http://www.FreeBSD.org/doc/el\\_GR.ISO8859-7/books/handbook/anoncvs.html](http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/anoncvs.html)) ἀεῖ δᾶνεοῦσθαι δῆσθαι. Ἀδὲ οὐδῆ Ὑδαῖ οὐδὲ ἰ δῆσθαι ἐπαεῖσθαι ἐὰ ἀδιδεῖσθαι οὐκ ἐὰδ' Ὑδαῖ `CVSROOT-freebsd` οἷο ἀβῖσθαι ἰῥα οἷο δὴ δὴ Ὑδα· Ὑδα ἐὰδ' Ὑδαῖ.

## 2.4 ÁíôéãñÜöííôáò ôá scripts ôïõ FreeBSD

34060āna, aī0eānŪ0r0iā 0īr 0ḡaaβī ēpaēēā aḡu 0īr **CVSROOT** ēa0Ūēīār 0ī0 FreeBSD 00ī aēēu iā0 repository. Āī ā00ā 00īḡēē0īŶīr0 iā 0ī **CVS**, β0u0 iā 0ā0 ḡānŪ0āē aḡu 0ī i0āēu iā ḡnī0ḡāēp0ā0ā iā eŪīā0ā import 0ā scripts, 0ā iēā ḡnī0ḡŪēāēā iā aβīāē ḡ00ānā ī 00ā ÷ nīīē0īu0 iā 0ē0 ēa0īḡēīŶ0 āēau0āē0 ā0ēīu0ānīr0. Ū00u0ī, āḡīāēēīŶā0āē u0ē 0ī **CVS** ḡānīr00ēŪāēē iēā aḡ0ēāē0īr0nāβā 00ḡī ḡānēī ÷ p aḡ0p: ʎ0āī āē0Ūāā0ā 0ḡaaβī ēpaēēā īŶ0ā 00ī **CVSROOT** 0Ūēāēī, āāī ēā āīcīānḡēīŶī 0ā āḡānāβ0c0ā ān ÷ āβā āēā ÷ āβnē0c0. Āēā iā īḡīŶŶ0ā0ā iā 0ī eŪīā0ā iā 0ā āīāāunβ0āē, ēā ḡnŶāē

ιά εΰιάδά checkin ία÷ύνέόόΰ εΰεά άñ÷άβι άόιγ Ύ÷άδ άάέάέπόάέ ία όçí áέόάάüāP, ÷ΰίιόάδ Ύόόέ όçí άίβά όιδ  
cvs import. ΆδñΎιüð, ç δñιόάέύιüíüíç ιΎεíüüð άβιάέ άδεΰ ίά άίόέάñΰόάδ άά scripts.

Άάί άβιάέ έάέ όüóí όçíáíóέέü όι άί ç δάñάδΰüñ δάñΰάñάóüð άάί όάδ üáβíáόάέ δíεγ íåēΰεάñç—όι όάέέέü άδιδΎεΎόιά  
άβιάέ όι βάέí. Άδεΰ άεΎάíüð όιí CVSROOT üΰεάέí έάέ άίόέάñΰόάδ άά FreeBSD άñ÷άβά δΰüñ άδü άά áέέΰ όάδ  
όíδέέΰ (άδάβñá÷όά) άίόβñάόά:

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

Όçíáέπόάά üóé δέέάíüόάόά έά δΰñάόά íåñέέΎð δñíáέüδíεPόάέδ ό÷άόέέΰ ία όι üóé íåñέέíβ üΰεάέíε άάί έά  
άίόέάñάόíγí. Άάί δάέñΰεάέ. Άάί όιüð ÷ñáέΰεάόάά άόόíγð όιüð έάόάέüüíüð.

## 2.5 Tá scripts

Όπñά Ύ÷άδά όόíí üΰεάέí áñάάόβáð όάδ Ύía áέñέáΎð άίόβñάόíü όüí scripts δíð όι βάέí όí FreeBSD project  
÷ñçóέííδíεáβ όóí áέέü όíð repository. Íέά δάñβέççç όíð όά όé ÷ñçóέííáγáέ όí εΰεά άñ÷άβι δάñέέάíüΎíáόάέ δάñάέΰüü.

- `access` - όι άñ÷άβι άόóü άάί ÷ñçóέííδíεáβόάέ όóéð όóíçέέóíΎíáð ááέάόάόόΰόάέδ όíð CVS. ×ñçóέííδíεáβόάέ üüí  
όόçí áέáέέP ááέάόΰόόόç όíð FreeBSD project, áέά ίά áéΎā÷άόάέ ç δñüóááόç όóí repository. Íδññáβóá ίά  
άóáέñΎóáðά άόóü όι άñ÷άβι άί άάί όάδ áíáέáöΎñáέ ίá ÷ñçóέííδíεPόáðά εΰόé ôΎóíéí όόç áέέP όáð ááέάόΰόόόç.
- `avail` - όι άñ÷άβι άόóü áéΎā÷άέ όçí δñüóááόç όóí repository áíΰ έáðΰεíüñ P άñ÷άβι. ÍΎóá όá άόóü, íδññáβóá ίά  
έáέíñβóáðά ñΰáðð ÷ñçóóβí όóíüð íδíβíüð εΎεáðά ίά áβóáðά δñüóááόç όóí repository, üðüð áδβóçð έáέ ίά  
άδááíñΎóáðά commits όá áδβδááí έáóáέüüíüð P άñ÷άβιü. Έά δñΎðáέ ίá όí δñíóáñüüóáðά πόóá ίά δάñέΎ÷άέ όéð  
ñΰáðð ÷ñçóóβí έáέ όíüð όáέΎεíüð δíð έá óδΰñ÷íóí όóí áέέü όáð repository.
- `cfg.pm` - όι άñ÷άβι άόóü áñíçíáγáέ όéð ñóèíβóáéð όáð έáέ δάñΎ÷άέ όéð áí' ññέóíγ ñóèíβóáéð. Άάí δñΎðáέ ίá  
áέέΰíáðά άόóü όι άñ÷άβι. Άíóβέáðά, έá δñΎðáέ ίá όíδíεáðPόáðά όéð áέέΎð όáð áέέááΎð όóéð ñóèíβóáéð όóí  
άñ÷άβι `cfg_local.pm`.
- `cfg_local.pm` - όι άñ÷άβι άόóü δάñέΎ÷άέ üéáð όéð ñóèíεäüüíáíð δάñáíΎóñíüð όíð óóóðPíáóíð. Έá δñΎðáέ ίá  
εΰíáðά íδíεáóáβδíðά ñóèíβóáéð όáð áäð, üðüð óá δíεá áέáγέðíόç έá óóΎεíííóáέ άá email áδü εΰεά commit, óá  
δíεíüð hosts έá áδέóñΎðáόάέ ίá áβíííóáέ commit, έέð. Δάñέóóüðáñáð δέçñíüíñβáð ό÷άόέέΰ ίá άόóü έá áñáβóá  
δάñάέΰüü.
- `checkoutlist` - όι άñ÷άβι άόóü δάñέέάíüΎíáέ üεá όá άñ÷άβá δíð áñβóέííóáέ εΰóü áδü όíí Ύεáā÷í όíð CVS όóíí  
έáðΰεíüñ άόóü—üεá áέóüð áδü όá δñíεáέíñέóíΎía άñ÷άβá δíð äçíεíññáβ ç áíóíεP cvs init. Έá δñΎðáέ ίá όí  
áέέΰíáðά áέá ίá áóáέñΎóáðά íåñέέΰ, ό÷άόέέΰ üüí ίá όí FreeBSD, άñ÷άβá.
- `commit_prep.pl` - όí script άόóü áέóáέáβ áέΰüíñíüð áéΎā÷íüð δñέí áδü εΰεά commit, áíΰεíüñ íá όéð ñóèíβóáéð  
δíð Ύ÷άδά εΰíáέ όóí άñ÷άβι `cfg_local.pm`. Άάί έá ÷ñáέáóóáβ ίá δάέñΰíáðά άόóü όι άñ÷άβι.
- `commitcheck` - όí script άόóü έáέáβóáέ áδáðéáβáð áδü όí CVS. Δñβóá áéΎā÷άέ, ÷ñçóέííδíεPíóáð όí δñüáñáíüá  
`cvs_acls.pl`, áí í committer Ύ÷άέ δñüóááόç όóí óðáέáñéííΎíí íΎñíð όíð äΎíóñíð όíð έβáέέá, έáέ íáðΰ áέóáέáβ  
όí `commit_prep.pl` δíð áέóáέáβ όíüð áέΰüíñíüð pre-commit áéΎā÷íüð. Άí ááí óδΰññíáέ εΰδíεí δñüáέçíá όóíüð  
áéΎā÷íüð άόóíγð, óüðά όí CVS έá áδέóñΎðáέ όóí commit ίá óóíá÷βóáέ. Άάί έá ÷ñáέáóóáβ ίá δάέñΰíáðά άόóü όí  
άñ÷άβι.

- `commitinfo` - οἱ ἀν÷ᾱβι ἀδού ÷ ñçóεἰῖῑεᾱβόᾱε ᾱδύ οἱ **CVS** ὀδί ἰᾱ ᾱῑῑῑᾱὀβὀᾱε ῑῑεἰ script ἰᾱ ᾱεὀᾱεῒὀᾱε ῑᾱεἰ ᾱδύ ἔῒῒᾱ commit—ὀδç ᾱεἔῒ ἰᾱὀ ῑᾱñᾱᾱὀὀὀὀç ᾱὀὀὀ οἱ ñῡεἰ ἔᾱεῒὀὀᾱε ὀἱ `commitcheck`. Ἀᾱἰ ἔᾱ ÷ ñᾱεᾱὀὀᾱᾱ ἰᾱ ῑᾱεἰῒᾱὀᾱ ᾱὀὀὀ οἱ ᾱñ÷ᾱβι.
- `config` - οἱ ἀñ÷ᾱβι ñὀεἰὀᾱὀᾱἰ ᾱε' ᾱὀὀὀ οἱ repository. Ἐᾱ ὃñῒὀᾱε ἰᾱ ἔῒᾱὀᾱ ᾱεεᾱῒὀ ὀ' ᾱὀὀὀ οἱ ἀñ÷ᾱβι ᾱἰῒεᾱᾱ ἰᾱ ὀεὀ ᾱἰῒᾱεᾱὀ ὀᾱὀ, ᾱεἔῒ ἰε ῑᾱñεὀὀὀὀᾱñἰε ᾱεᾱ÷ᾱεñεὀῒὀ ἰὃἰñἰῒἰ ἰᾱ ᾱὀὀῑὀἰ ὀεὀ ᾱἰ' ἰñεὀἰῒ ñὀεἰὀᾱεὀ. ῑᾱñεὀὀὀὀᾱñὀ ὃεçñἰὀἰñᾱὀ ᾱεᾱ ὀεὀ ᾱεῒὀἰñᾱὀ ᾱὀἰᾱὀὀὀçὀᾱὀ ᾱῑεἰᾱᾱἰ ῑὀὀ ῒ÷ᾱὀᾱ ὀὀἰ ἀñ÷ᾱβι ᾱὀὀὀ ἰὃἰñᾱὀᾱ ἰᾱ ᾱñᾱὀᾱ ὀὀἰ ᾱᾱ÷ᾱεñᾱεἰ ὀἱὀ **CVS**.
- `cvs_acls.pl` - ὀἱ script ᾱὀὀὀ ᾱεῒᾱ÷ᾱε ὀçἰ ὀᾱὀὀὀὀçὀᾱ ὀἱὀ committer, ἔᾱε ᾱἰ ᾱῑεὃñῒὀᾱὀᾱε ᾱὀὀὀ ἰᾱ ῒ÷ᾱε ὃñῡὀᾱὀç ὀὀἰ ᾱῒὀἰñἰ ὀἱὀ εᾱεἔᾱ. Ἀὀὀὀ ᾱᾱἰᾱὀᾱ ἰᾱ ᾱῒὀç ὀἱ ἀñ÷ᾱβι `avail`. Ἀᾱἰ ἔᾱ ÷ ñᾱεᾱὀὀᾱᾱ ἰᾱ ῑᾱεἰῒᾱὀᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι.
- `cvsignore` - ὀὀἰ ἀñ÷ᾱβι ᾱὀὀὀ ἔᾱεἰñᾱεἰῑὀᾱε ὀᾱ ἀñ÷ᾱᾱ ῑὀὀ οἱ **CVS** ᾱᾱἰ ἔᾱ ὃñῒὀᾱε ἰᾱ ᾱῑεὃñῒὀᾱε ὀἱ checkin ὀἱὀ ὀὀἰ repository. ἰὃἰñᾱὀᾱ ἰᾱ ᾱῑᾱἰñᾱᾱὀὀᾱὀᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι ᾱἰῒεᾱᾱ ἰᾱ ὀεὀ ᾱεἔῒὀ ὀᾱὀ ὃñἰὀεἰὀᾱεὀ. ῑᾱñεὀὀὀὀᾱñὀ ὃεçñἰὀἰñᾱὀ ᾱεᾱ ὀἱ ἀñ÷ᾱβι ᾱὀὀὀ ἔᾱ ᾱñᾱὀᾱ ὀὀἰ ᾱᾱ÷ᾱεñᾱεἰ ὀἱὀ **CVS**.
- `cvswrappers` - ὀἱ ἀñ÷ᾱβι ᾱὀὀὀ ÷ ñçóεἰῖῑεᾱβὀᾱε ᾱδύ οἱ **CVS** ᾱεᾱ ὀçἰ ᾱἰñᾱἰὃἰὀçὀç ὀᾱ ᾱὃᾱἰñᾱἰὃἰὀçὀç ὀἱὀ keyword expansion, ὀ ᾱεᾱ ὀἰ ᾱἰ ἔῒὀἰεἰ ἀñ÷ᾱβι ἔᾱ ὃñῒὀᾱε ἰᾱ ᾱἰὀεἰᾱὀὀὀὀᾱὀᾱε ὕὀ binary. ἰὃἰñᾱὀᾱ ἰᾱ ᾱὃᾱἰñᾱᾱὀὀᾱὀᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι ᾱἰῒεᾱᾱ ἰᾱ ὀεὀ ᾱῑεὃἰᾱὀ ὀᾱὀ. ῑᾱñεὀὀὀὀᾱñὀ ὃεçñἰὀἰñᾱὀ ὀ÷ᾱὀεἔῒ ἰᾱ ὀἱ ἀñ÷ᾱβι ᾱὀὀὀ ἰὃἰñᾱὀᾱ ἰᾱ ᾱñᾱὀᾱ ὀὀἰ ᾱᾱ÷ᾱεñᾱεἰ ὀἱὀ **CVS**. Ὄçἰᾱεὀὀᾱ ὃὀὀ ἰε ᾱῑεἰᾱῒὀ ÷ṫ ἔᾱε ÷f ᾱᾱ ᾱἱὀεᾱῒὀἰ ὀὀὀὀ ᾱεᾱ client/server ÷ñὀç ὀἱὀ **CVS**.
- `edithook` - ὀἱ ἀñ÷ᾱβι ᾱὀὀὀ ᾱᾱἰ ÷ ñçóεἰῖῑεᾱβὀᾱε ῑᾱεᾱ, ᾱεἔῒ ᾱἰᾱεἰῑὀεᾱᾱ ἰᾱ ὀὃῒñ÷ᾱε ᾱεᾱ εὀὀἰñεἰῒὀ ἔῡᾱὀὀ. ἰὃἰñᾱὀᾱ ἰᾱ ὀᾱὀᾱὀᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι.
- `editinfo` - ὀἱ **CVS** ÷ ñçóεἰῖῑεᾱᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι ᾱεᾱ ῑᾱñῒᾱἰὀç ὀἰἰ editors. Ὄἱ FreeBSD ᾱᾱἰ ÷ ñçóεἰῖῑεᾱᾱ ᾱὀὀὀ ὀçἰ ἔᾱεὀἰñᾱεἔῡὀçὀᾱ ᾱεᾱὀᾱ ç ᾱñἰçἰᾱᾱ ὀἱὀ log ἰçἰῒᾱὀὀ ᾱᾱἰᾱὀᾱ ᾱδύ ὀᾱ `verifymsg` ἔᾱε `logcheck` ἀñ÷ᾱᾱ. Ἀῑεἔῒᾱἰᾱ ἰᾱ ᾱᾱἰᾱὀᾱ ῒὀὀε ᾱὀὀὀ ᾱῑᾱεᾱὀ ç ÷ñὀç ὀἱὀ `editinfo` ῒ÷ᾱε ἔῒὀἰεᾱ ὃñἰᾱεὀᾱὀᾱ ἰᾱ ὀᾱ commits ᾱδύ ἰᾱεἰῒῒ ἔᾱε ἰᾱ ὀᾱ commits ῑὀὀ ÷ ñçóεἰῖῑεἰῒἰ ὀεὀ ᾱῑεἰᾱῒὀ ÷f ὀ ὀ ÷f. Ἀᾱἰ ἔᾱ ÷ ñᾱεᾱὀὀᾱᾱ ἰᾱ ῑᾱεἰῒᾱὀᾱ ᾱὀὀὀ οἱ ἀñ÷ᾱβι.
- `exclude` - ὀἱ ἀñ÷ᾱβι ᾱὀὀὀ ῑᾱñεῒ÷ᾱε ἔᾱñἰεἔῒὀ ᾱεὃñῒὀᾱεὀ (regular expressions) ῑὀὀ ÷ ñçóεἰῖῑεἰῒἰὀᾱε ᾱδύ οἱ ὃñῡᾱñᾱἰᾱ `commit_prep.pl` ᾱεᾱ ἰᾱ ὃñἰὀᾱεἰñεὀὀἰῒἰ ὀᾱ ἀñ÷ᾱᾱ ῑὀὀ ᾱᾱἰ ᾱᾱἰᾱε ᾱῑᾱñᾱὀçὀἰ ἰᾱ ῑᾱñεῒ÷ᾱἰ ᾱῑεἔᾱὀεᾱᾱ ᾱῑεὀεῡὃçὀçὀ (revision header). Ὄὃçἰ ᾱᾱεᾱὀῒὀᾱὀç ὀἱὀ FreeBSD, ὕεᾱ ὀᾱ ἀñ÷ᾱᾱ ἔῒὀὀ ᾱδύ ῒεᾱᾱ÷ἰ ᾱῑεὀεῡὃçὀç

**ΌγκιαΒυθός:** Οἱ script ἀγαθὸὺθάε ἀδὺ ἰεά ὀιδέεP ἀεέάαP οἷο FreeBSD οἷο **CVS:** Ç ἀεέάαP ἀοδP ἱαῖαάεάαUαε οἱ log ἱPῖοῖα ἀοῖY ἀοδὺ Y÷-ἀε ὀηῖῖῖῖεçαB ἀδὺ οἱ script. Ç εἱῖῖῖῖ Yεἱῖῖῖ οἷο **CVS** ὀηῖῖῖῖ ἀἱ εὔῖαε εὔῖοε ὀYῖῖῖ, ἱδῖῖῖ οἱ logcheck ἀἱ ἱῖῖῖῖ ἱἱ εὔῖαε ἱεῖῖῖῖῖῖῖῖῖῖῖῖ οἷο log ἱPῖοῖα, ἀεεὔ ἱῖῖῖῖ ἱἱ ἀεYἱἱἱἱ ὑοε οἱ ἱPῖοῖα ἀἱ Y÷-ἀε ὀῖῖῖῖῖῖῖῖῖῖῖῖ εὔῖῖ. Ἀῖῖ ὀçῖ Yεἱῖῖῖ 1.11.2 εἱἱ ἱῖῖῖ οἱ Bἱῖῖ οἱ **CVS** ἱῖῖῖῖ ἱἱ ἡῖῖῖῖῖῖ ἱἱ Y÷-ἀε ὀçῖ Bἱῖῖ ὀῖῖῖῖῖῖῖῖῖ ἱἱ ἱῖῖῖ οἷο Y÷-ἀε ç Yεἱῖῖῖ οἷο FreeBSD ἱἱ ὀçῖ ἱῖῖῖῖῖ RereadLogAfterVerify=always ὀῖῖ ἱῖ÷ῖῖῖ config.

- [illegible]

## 2.6 Ôñïðïðïépíôáò ôá scripts

[illegible]

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

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

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

Àεòυò áσóιγύ óðί òσáέáεñéíΥή άñ÷÷άβί ιδñηάßòá íá áέòÜááòá έáέ ηÜááo áðu committers. Άí' ηñέóιγύ, όι FreeBSD ÷ñçόέιηδρεάß όι άñ÷÷άβί access áέα όçί όιδρεÝόçόç üèüι ðúι committers, áέëÜ ιδñηάßòá íá ÷ñçόέιηδρεΠóáòá υðιεí Üέεí áðέειαßòá. Ιδñηάßòá áðßόçòó íá θñιόέÝóáòá έáέ ηÜááo áí όι áðέειαßòá (ç óýíóáιç έáέηñßæáðáέ óóçί έìñöðP 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 έέΥάαόά οέό άάηάέÜü όηιόιόέπόέιαό άδέεραΥό:

- `%TEMPLATE_HEADERS` - ΆόόΥό ιέ άόέέάόάέβääό άάάίάñáÜæííóáé áδú óá log scripts, éáé õíðíèääõííóáé èÜòú áδú õí mail õíò èÜèá commit áí ððÜñ÷íõí éáé äáí äßíáé èáíÝð óõí íÞíõíá õíò commit. ÄáíéèÜ, ìðíñáßóá íá áóáénÝóáðá ðéð éáóá÷ ùñÞóáéð PR éáé MFC after—áóíÝ áóðÝð ó÷ äòßæííóáé ìá õí bug tracking óýóóçíá õíò FreeBSD éáé õíí ðñüðí ðíò áéá÷ áénñæáðóáé õí FreeBSD óá branches õíò repository õíò. Éáé ððóéèÜ ìðíñáßóá íá ðñíóéÝóáðá ðéð äééÝð óáð.
- `$MAIL_BRANCH_HDR` - Áí èÝÝèáðá íá ðñíóðßèáðóáé áðóùíáóá íéá áðéèáðáéßää óá èÜèá commit íÞíõíá mail, ç íðíßá éá ðñéñáñÜðóáé õí branch óõí íðíßí Ýáéíá õí óðáéññéñíÝíí commit, ìñßóðá ðçí ðéíÞ áóðÞ íá óáéñéÜæáé ìá ðçí áéèÞ óáð äáéáðÜóóáóç. ÁòÞóðá ðçí èáíÞ áí äáí áðéèèáßóá íá ðñíóðßèáðóáé áðóùíáóá íéá óÝõíéá áðéèáðáéßää.
- `@COMMIT_HOSTS` - Ìñßóðá ðçí ðéíÞ áóðÞ óá íéá èßóðá áδú óðóðíáðá (hosts), áδú óá íðíßá áðéèñÝðáðóáé íá äßíííóáé commits.
- `$MAILADDRS` - Ñðèíßóðá áóðÞ ðçí ðéíÞ óõí email õíò áéá÷ áéñéóðÞ Þ óá íéá áéáyèðíóç èßóðáð óðçí íðíßá èÝÝèáðá íá ðçääáßííõí óá mail ðùí commit íçíõíÜðùí.
- `@LOG_FILE_MAP` - ÁéèÜíðá áðóðú õí array üðúð áðéèèáßóðá. ÈÜèá regexp áíðéóðíé÷ áß óõí óðáéññéñíÝíí òÜèáéí óõíí íðíßí äßíáðóáé õí commit, éáé õí log íÞíõíá õíò commit áðíççéáyáðóáé èÜòú áδú õíí éáðÜèíäí CVSROOT, óõíí ððíéáðÜèíäí commitlogs, óõí äñ÷ áßí ðíò áíáóÝñáðóáé óðçí áíóßóðíé÷ ç äääñáòÞ õíò ðßíáéá `@LOG_FILE_MAP`.
- `$COMMITCHECK_EXTRA` - Áí äáí èÝÝèáðá íá ÷ñçóéííðíéÞóáðá õíòð ßáéíòð äéÝä÷íòð ðñüóááóçð ìá õí FreeBSD, éá ðñÝðáé íá áóáénÝóáðá õíí ìñéóíü ðçð ðéíÞð `$COMMITCHECK_EXTRA` áδú õí äñ÷ áßí áðóðú.

Όχι!Βασιός: Ç äëëäâP òçò ðáñáíYòññò §IDHEADER áßíáë äääòçíYíí üòë èä äïðëYðäë üüñ óä ðëáðòüññàð  
FreeBSD. ÁíáñòÜòáë áðü äëäëëYð ïàðáðññòYð òïò FreeBSD óòì 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. Άðáíáñááóðáððá òì áñ÷áðì exclude áέá íá áóáέñÝóáðá ðέð áέáέέÝð έáðá÷ññðóáέð òìð FreeBSD (üðüð üέáð ðέð áñáñÝð ðìð íáέέñíýí íá ^ports/ έðέ.). Άέðüð áððíý, áÜέðá óá ó÷üέέá ðέð áñáñÝð ðìð íáέέñíýí íá ^CVSROOT/, έάέ ðñìóέÝóðá íέá áñáñP ðìð έá ðáñέÝ÷άέ íüñí òì ^CVSROOT/. Áóíý ááέáðáóðáέáð í wrapper, ìðìñáððá íá ðñìóέÝóðá òì áέέü óáð header óðá áñ÷áðì ðìð áñðóέñíóáέ ìÝóá óðìí έáðÜέìáì CVSROOT έάέ íá áðáíáðÝñáðá ðέð áñáñÝð áððÝð, áέέÜ ðñìð òì ðáñüí áðέÜ έá óáð áçìέìñáðóìòì ðñìáέðìáðá üðáí έá ðñìóðáέðóáðá íá έÜíáðá commit áñáüðáñá.
5. Áñìðìð òì áñ÷áðì modules, έάέ áóáέñÝóðá üέáð ðέð ó÷áðέέÝð íá òì FreeBSD έáðá÷ññðóáέð. ðñìóέÝóðá óá áέέÜ óáð modules áí òì áðέέðìáððá.
- 6.

**Όçìáðüóç:** Όì áðìá áððü áðìáέ áðáñáððçðì íüñí áí Ý÷áðá ìñðóáέ έÜðìέá ðέìP óðçí ðáñÜìáðñì \$IDHEADER òìð áñ÷áðìð `cfg_local.pm` (ç ìðìá áìðέáýáέ íüñí áóüóìí ÷ñçóέììðìέáððá ðçí ðñìðìðìέçìÝç Ýέáìóç òìð CVS ðìð Ý÷άέ òì FreeBSD).

Άέìñèðóðá òì áñ÷áðì `options` þóðá íá óáέñέÜάέ íá òì tag ðìð ìñðóáðá óðì áñ÷áðì `cfg_local.pm`. Íέá áíáάPðçóç έάέ áíðέέáðÜóðáóç òìð FreeBSD óá üέì òì áñ÷áðì áðìáέ áñέáðP.

7. Άðáíáñááóðáððá òì áñ÷áðì `rcstemplate` þóðá íá ðáñέÝ÷άέ óá ðáέá keywords ìá áððÜ ðìð Ý÷áðá ìñðóáέ óðì `cfg_local.pm`.
8. ðñìáέñáðέέÜ, áóáέñÝóðá òìðð áέÝá÷ìð òìð FreeBSD áðü òì áñ÷áðì `tagcheck`. ìðìñáððá áðέÜ íá ðñìóέÝóðá `exit 0` óðçí áñ÷P òìð áñ÷áðì áέá íá áðáíáñáìðìέPóáðá üέìðð òìðð áέÝá÷ìð óðì tagging.
9. Όì óáέáððáðì ðñÜáìá ðìð ðñÝðáέ íá áðìáέ, áðìáέ íá óέáìñáððóðáðá üðέ óá commitlogs ìðìñíý íá áðìέçέáððíýí. Óá CVS scripts òìð FreeBSD áðìέçέáýìí áððÜ óá logs óðìí ððìέáðÜέìáì commitlogs òìð έáðáέüáìð CVSROOT. Áððüð ì Üέáέðð ðñÝðáέ íá áçìέìñáçέáð, ìðüðá έÜíðá óá áέüέìðέá:

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

Όðñá, áóíý áέÝáìáðá óá ðÜíðá ðñìóáέðέέÜ, έá ðñÝðáέ íá έÜíáðá commit ðέð áέέááÝð óáð. Õñìíððóðá íá áððá óðáìññìé üðέ Ý÷áðá áðóáέ óðìí ááððü óáð ðñüóááóç óðìí óÜέáέì CVSROOT ìÝóá áðü òì áñ÷áðì `avail` ðñέí έÜíáðá ìðέáððìðá, áóüóìí óðçí áíððέáðç ðáñðððüóç έá έέáέððóðá òìí ááððü óáð Ýñ. ìðüðá, òñìíððóðá óá ðÜíðá íá áðìáέ üððð áðέέðìáððá, έάέ íüñí ðüðá áðóðá óá áέüέìðέá:

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

## 2.7 ΆìέέìÜάέìíðáð ðçí ΆáέáðÜóðáóç

Άððá Ýòìέìé áέá ðçí ðñðç óáð áìέέìP: íá forced commit óðì áñ÷áðì `avail`, áέá íá óέáìñáððóðáðá üðέ üέá áìðέáýìí üððð έá Ýðñáðá.

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

¶í üέá ðÜíá έáέÜ, óðá÷áñçððñέá! ,÷áðá έáðáóÝñáέ íá óððóáðá íέá ðέðñüð έáέìñáέέð ááέáðÜóðáóç ðñì FreeBSD scripts áέá òì repository óáð. Óðçí ðáñðððüóç ðìð òì CVS áíáέìñέáð íá ðáñáðìéÝóáέ áέá έÜðέ, áðέóðñÝððá óðέð ðñìçáìýíáìð áíüðçðáð έάέ áέÝáìðá íáÜ üðέ Ý÷áðá áέðáέÝóáέ óüóðÜ üέá óá ðñìçáìýíáì áðìáðá.

### 3 Åéäêþ ÅãêáôÛóóáóç ôïõ FreeBSD Project

Οι Βαέι οι FreeBSD project ÷ ηςοείηδιδεάβ ιεά αεάοηρò αεάοηηαόεεΡ αεάοÜóóαός, ς ιθιβα ÷ ηςοείηδιδεάβ αδβόçò  
 αη÷αβα αδύ οηι οδρòÜεαεή freebsd οηò CVSROOT δηò ÷ ηςοείηδιδεάβοάε οοη FreeBSD. Οι project ÷ ηαεÜααόάε εÜóε  
 οÝοιέη εüαυ οηò ιααÜεηò αηέεηηγ οüη committers, δηò αεάοηηαόεεÜ εα Ýδηαδä ιά αηΠεηοι üεηε οοη βαέη group. όóε,  
 αςιέιηηαΠεçεä Ýιáo αδεüð wrapper ι ιθιβηð αóηγ δηρòä αηαόóαεβαεä óä óóóóÜ αεάδεóóαδòΠηεä οüη committers,  
 αεεÜαεä ιαδÝδαέóä οη group id óä αδóóη οηò repository.

[illegible]

### 3.1 Άν÷άΒα ðïð ÷ñçóéïïðïéíýíóáé óôçí áéääêþ åãêáôÛóóáóç ðïð FreeBSD

- [illegible]

### 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 άάέάάάόόΠόϊόϊά όϊϊ wrapper άέά ίά άβίαόόά όβάρϊόνϊέ ύόέ έά άβίαόάέ ç ίάόάόνϊόΠ όόϊ όύόόύ group ύόάϊ άβίαόάέ commit. Ι όçääßïð έπαέέάό άέ' άόόύ άñßόέάόάέ όόϊ άñ÷:άßï `cvswrap.c` όόϊϊ έάόÜέϊάϊ CVROOT.

l̥aôãæuôôßôã ôiĩ êpaëëã ðiō Ý ÷ :ãôã Þac æéĩnèþoáé þóôã íá ðãñéÝ ÷ :æ ôã óuóôÛ paths:

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



Ὁ δὲ ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ

```
# 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
```

Ἄρα οὖν ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ

- Ἰδὲ ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ

### 3.3 Ἀεὶ ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ

Ἰδὲ ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ

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

Ἰδὲ ὁ ἄριστος ἄνθρωπος ἔστιν ὁ ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ ὡς ἐν τῇ ἐλευθερίᾳ