

İläçäüò ÃñPãĩñçò Âêêßícóçò ôĩö FreeBSD ãéá × ñPóôåò Linux®

John Ferrell

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

ĐíäöíäöééÜ Äééäépíäöä © 2008 Ç İÜää ÔâèìçñBùóçò ôĩö FreeBSD
\$FreeBSD: release/8.4.0/el_GR.ISO8859-7/articles/linux-users/article.xml 39632
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Ôĩ FreeBSD âßíáé Ýíä éäôĩ÷õñüíÝĩ äìðĩñééü öýíäĩēĩ ôĩö FreeBSD Foundation.
Ôĩ Linux âßíáé Ýíä éäôĩ÷õñüíÝíä äìðĩñééü öýíäĩēĩ ôĩö Linus Torvalds óéò ÇíüíÝíäò Đĩēéöåßäò.
İé ēÝíäéò Intel, Celeron, EtherExpress, i386, i486, Itanium, Pentium, éäé Xeon âßíáé äìðĩñééÜ öýíäĩēä P
éäôĩ÷õñüíÝíä äìðĩñééÜ öýíäĩēä ôçò Intel Corporation éäé ôüí ēöäåñéēpĩ ôçò óéò ÇíüíÝíäò Đĩēéöåßäò
éäé óä Üēēäò ÷pñäò.
İé ēÝíäéò P õñÜóäéò Red Hat, éäé RPM âßíáé äìðĩñééÜ öýíäĩēä P éäôĩ÷õñüíÝíä äìðĩñééÜ öýíäĩēä ôçò
Red Hat, Inc. óéò ÇíüíÝíäò Đĩēéöåßäò éäé óä Üēēäò ÷pñäò.
Ç ēÝíç UNIX âßíáé éäôĩ÷õñüíÝĩ äìðĩñééü öýíäĩēĩ ôĩö Open Group óéò ÇíüíÝíäò Đĩēéöåßäò éäé óä
Üēēäò ÷pñäò.
ĐĩēēÝò äöü óéò ēÝíäéò P õñÜóäéò İē İðĩßäò ÷ñçóēüðĩēĩýíóäé äöü ôĩö éäöäóēäöäóöÝò P ôĩö
öüēçöÝò ôĩö äéä íä äéäēñBĩĩĩĩ öä ðñĩüüíöä ôĩö ēäüñĩýíóäé äìðĩñééÜ öýíäĩēä. ¼äĩö äööÝò
äìðäĩßäēĩöäé öä äöü ôĩ ēäßäĩĩ éäé äéä üöäò äöü äööÝò äĩüñBæäé ç İÜää ÄíÜðöçò ôĩö FreeBSD üöé
âßíáé ðēääĩüí íä âßíáé äìðĩñééÜ öýíäĩēä, éä ääBöä Ýíä äöü öä öýíäĩēä: “™” P “®”.

Ôĩ ēäßäĩĩ äöü Ý ÷äé óēĩðü íä äĩçèPóäé óç ãñPãĩñç äĩēēåßüç ÷ñçóðĩ Linux® İÝóĩö / ðñĩ÷üñçĩÝĩĩ
äðēðÝäĩö İä öéò ääóéēÝò Ýĩñēäò ôĩö FreeBSD

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1 ÅéóáãùãƆ

Οι εαβλαίη άόδου οίηβææέ όέδ άεάοιηÝδ ίαδóáý όιθ FreeBSD έάέ όιθ Linux ίόόά ίÝόίέ Þ ðñí÷ ùñçíÝñíé ÷ ñÞόόάδ όιθ Linux ίά ίδññíýí ãñÞáññά ίά ðñíόáññίόόίýí όόέδ ááόέέÝδ Ýñíέάδ όιθ FreeBSD. Ðñüêæόάέ áéá ίéá όá÷ ίéêÞ áéόάüüäÞ όόí FreeBSD, έάέ ááí éä áíáόáñèýñíä όά όð÷ úí “όέέίόíόέéÝδ” áéάοιηÝδ ίαδóáý όüí áýí όόόόçíÛόüí.

Oĩ êãñĩãĩĩ ãõõũ õõĩẽYõãẽ uõẽ Y ÷ ãõã Pãç ããẽãõãõõPõãẽ õĩ FreeBSD. Áĩ ããĩ Y ÷ ãõã ããẽãõãõõPõãẽ õĩ FreeBSD P ÷ ããẽUẽãõõã ãĩPẽãẽã ãã õçĩ ãẽããẽãõãããããõõUõõãõõõ õĩõ, õãããẽãẽĩĩã ãã ãẽããUõõãõã õĩ êãõUẽãẽĩ ããẽãẽẽõõĩõãõõ õĩ FreeBSD (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/install.html) õõĩ ãã ÷ ãẽñĩãẽĩ õĩõ FreeBSD.

2 Êâëýöç: Ääí õďŰñ÷âé Bash;

[illegible][illegible]

3 ĐáêÝôá êáé Ports: ĐñĩôéÝôĩĩôáò ěĩăéóĩéēũ óôĩ FreeBSD

Ἄεθου ἀδὺ ὄγι θανάτιοεἰεἰβ Ἰεῖται ἡεἰάοῦόοάοοδ εἰεἰεἰεἰεἰ οἰο UNIX® (εἰάῖῖῖῖῖ οἰο δῖῖῖῖῖ εἰεἰεἰεἰ, ἀδῖοἰῖῖῖῖ οἰο ἡἡ ÷ ἡῖῖ, ἡῖῖῖῖῖῖῖῖ ἡἡ ἡῖῖῖῖῖῖῖῖ), οἰ FreeBSD ῖῖῖῖῖῖ ἡἡ ἡῖῖῖ ἡῖῖῖῖῖ ἡἡ ὄγι ἡῖῖῖῖῖῖ ὄῖῖῖῖῖῖ: ὄῖ ῖῖῖῖῖ ἡἡ ὄῖ ports. ἡἡ ἡἡ ῖῖῖῖ ῖῖῖῖ ῖῖῖ ὄῖ ἡῖῖῖῖῖῖ ῖῖῖῖῖ ῖῖῖῖ ἡἡ ports, ἡῖῖῖ ἡῖῖ (<http://www.freebsd.org/ports/master-index.html>).

3.1 ĐấêÝôá

Όά θαέΎόά αβίαέ θñĩ-iaóaaèuóóéoiΎíáo áóáñĩāΎó, èá ëΎāñāi ôĩ áíóβóóíé÷ĩ áéá ôĩ FreeBSD òuĩ áñ÷āβuĩ .deb óá óóóóβiaóá Debian/Ubuntu éáé òuĩ áñ÷āβuĩ .rpm óá óóóóβiaóá Red Hat/Fedora. Όά θαέΎόά āāēāēβóóáíóáé ÷ñóóēñíēíβíóáó òci áíóīēP pkg_add(1). Áéá θánŨāēēāi, ç āēuēīōèç áíóīēP āāēāēéóóŨ ôĩñ **Apache 2.2**:

```
# pkg_add /tmp/apache-2.2.6_2.tbz
```

Ç ÷ ñΠός όçò ðáñáÝíññíð - ð ãäçããß öçí pkg_add(1) íá éáóääÜóää áðòùíáðá ðùóí ðí ðáéÝðí, ùóí éáé óéð áíáñðΠóáéð ðíð. éáé íá ðí ääéáðáóóðΠóáé:

```
# pkg_add -r apache22
```

```
Fetching ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/Latest/apache22.tbz... Do
```

```

Fetching ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/All/expat-2.0.0_1.tbz...
Fetching ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6.2-release/All/perl-5.8.8_1.tbz... D
[snip]

```

To run apache www server from startup, add `apache22_enable="YES"` in your `/etc/rc.conf`. Extra options can be found in startup script.

Όχι!Βυθός: Αί ÷ η̇ος̇εί̇ι̇τι̇ε̇α̇β̇δ̇α̇ ι̇ε̇ά "α̇δ̇β̇ό̇ç̇ι̇ç̇" Ὑ̇ε̇α̇ί̇ό̇ç̇ ο̇ί̇ο̇ FreėḂṠḊ (6.2, 6.3, 7.0, ε̇ε̇δ̇. δ̇ί̇ο̇ α̇α̇ί̇ε̇ε̇ῤ̇ ι̇δ̇ι̇η̇α̇β̇δ̇α̇ ι̇ά α̇α̇ε̇α̇δ̇α̇ο̇δ̇ρ̇α̇δ̇α̇ α̇δ̇ῦ̇ ĊḊ-̇ṘȮṀ) ç̇ α̇ί̇ο̇ί̇ε̇Ḇ̇ pkġ_adḋ -̇ṙ ε̇ά̇ ε̇α̇δ̇α̇α̇ῤ̇ο̇α̇ε̇ δ̇ά̇ δ̇α̇ε̇Ὑ̇ό̇α̇ δ̇ί̇ο̇ ο̇δ̇ε̇ῤ̇÷̇ ο̇ç̇ε̇α̇ί̇ α̇ε̇ά̇ α̇δ̇ο̇Ḇ̇ ο̇ç̇ ο̇δ̇α̇ε̇α̇η̇ε̇ί̇Ὑ̇ίç̇ Ὑ̇ε̇α̇ί̇ό̇ç̇. Ὁ̇ά̇ δ̇α̇ε̇Ὑ̇ό̇α̇ α̇δ̇ο̇Ḇ̇ *β̇ο̇υ̇δ̇ α̇α̇ί̇ δ̇α̇ñ̇é̇Ὑ̇÷̇ ι̇ō̇ί̇* ο̇ε̇δ̇ δ̇ε̇Ὑ̇ί̇ι̇ ο̇δ̇α̇ε̇α̇δ̇ο̇α̇β̇α̇δ̇ α̇ε̇α̇ῦ̇ο̇α̇ε̇δ̇ ο̇ῦ̇ι̇ α̇δ̇α̇ñ̇ι̇ῥ̇α̇Ḇ̇ί̇. ι̇δ̇ι̇η̇α̇β̇δ̇α̇ ι̇ά ÷̇ η̇ος̇εί̇ι̇τι̇ε̇ρ̇α̇δ̇α̇ ο̇ç̇ ι̇α̇δ̇α̇α̇ε̇ç̇δ̇Ḇ̇ δ̇α̇ñ̇é̇ȧῤ̇ε̇ε̇ί̇ο̇ί̇δ̇ο̇ [PACKAGESITE](#) α̇ε̇ά̇ ι̇ά̇ δ̇α̇ñ̇á̇ėῤ̇ο̇α̇δ̇α̇ α̇δ̇ο̇Ḇ̇ ο̇ç̇ι̇ δ̇ñ̇ι̇α̇δ̇ε̇ε̇ȧι̇Ὑ̇ίç̇ ο̇δ̇ι̇δ̇α̇ñ̇é̇ο̇ί̇Ḇ̇. Α̇ε̇ά̇ δ̇α̇ñ̇ῤ̇ȧȧε̇ȧί̇ȧ, ε̇Ὑ̇δ̇ι̇í̇δ̇α̇δ̇ ο̇ç̇ι̇ [PACKAGESITE](#) ο̇ό̇ç̇ι̇ ο̇εί̇Ḇ̇ <ftp://ftp.freebsd.org/pub/FreeBSD/ports/i386/packages-6-stable/Latest/> ε̇ά̇ ε̇α̇δ̇α̇ȧῤ̇ο̇ȧδ̇α̇ δ̇ά̇ δ̇ε̇ί̇ δ̇ñ̇ῦ̇ο̇δ̇ȧδ̇α̇ δ̇α̇ε̇Ὑ̇ό̇α̇ δ̇ί̇ο̇ ο̇δ̇ῤ̇ñ̇÷̇ι̇ō̇ί̇ α̇ε̇ά̇ ο̇ç̇ ο̇á̇ε̇ñ̇ῤ̇ 6.X.

Ἄεά ḁānéóóúôāñāō ḁēçñiōīñḂāō ò÷:âôééÛ iā ôā ḁāēÝôā, ḁāñāéāēīyīā äéāāÛôōā ôçí áfuôçôā 4.4 ôōī Ἀā÷:äénḂäēī ôiō
 FreeBSD: ×ñçóéiīḁiépíôāō ôī Óýôðçiā Packages
 (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/packages-using.html).

3.2 Ports

Ç αáyðáñç ÿYëraïð æéá ðçí áæáoÜðóðáç áðáññíáñí ððí FreeBSD áñíáç ç Óðëëíáñ ðúñ Ports. Ç Óðëëíáñ ðúñ Ports áñíáç Ýía ðëáðóëí çäëðíðñäçñí ðñð áðñðäëáððáç áðñ Makefiles éäç áñ÷-áñá æéáðññí (patches) ðá ïðñá Ý÷íðí äçíëíðñäçäá æéäëÜ, þððá íá áñíáç áññáðñ Ç áæáoÜðóðáç äëÜíðññí áðáññíáñí ððí FreeBSD áðñ ðñí ðçäáñí ëðäéä ðñðð. ¼ðáí áæäëééðÜðá Ýía port, ðñ óýððçía ëä éäðááÜðáç ðñí ðçäáñí ëðäéä, ëä áðáññíðáç ðëäð ðéð áðäéðñíñáñð áëëáÝð ÷ñçóëíðñëñðáð ðá patches, ëä ïäðáäëððððáç ðñí ëðäéä, éäç ðÝëñð ëä áæäéäðððáç ðçí áðáññíáñ. Èä äëëñðððáç ðçí ðäéä áëääéäðáç éäç äéä ïðñéäáððñðá ðð÷íñ áñáññíáñä ðññáñÜññáðá.

Ἰδιῆνᾱβὼᾱ ἰᾱ ἁῆνᾱβὼᾱ ὀçῖ Ὀῶεῖῖᾱᐅ ὀῖῖ ᐅῖῖᐅ (ç ἰῖῖᾱ ἰᾱῆῆῖῖ ὀῖῖ ὀῖῖᾱ ἰᾱῖᾱῖῖᾱὀᾱῆ ῆᾱῆ ὀῶ “ᾱῖῖὀῖῖ ὀῖῖᐅ ᐅῖῖᐅ”), ὀῖῖᐅ ῆᾱὀῖῖᾱῖ /usr/ports. Ἀὀὀῖ ᾱῖᾱῆᾱ ὀῖῖῖὀῖῖῖᾱῆ ὀῖῆ ἁῆῆᾱὀᾱὀᾱὀᾱὀᾱ ὀçῖ Ὀῶεῖῖᾱᐅ ὀῖῖ ᐅῖῖᐅ ὀç ἁῆῖῖῆῆῆᾱ ὀçὀ ἁῆῆᾱὀᯘὀᯘὀçὀ ὀῖᯘ FreeBSD. Ἀῖ ἁῖῖ ὀῖ ῖ÷ᾱὀ ῆῖῖᾱῆ, ἰδιῆνᾱβὼᾱ ἰᾱ ὀçῖ ὀῖῖῖῆῖᾱὀᾱ ἁὀῖ ὀῖ CD ἁῆῆᾱὀᯘὀᯘὀçὀ ἰᾱ ὀçῖ ἁῖᐅῆῆᾱ ὀῖᯘ sysinstall(8) ᐅ ἰᾱ ὀçῖ ῆᾱὀᾱὀᯘὀᾱ ἁὀῖ ὀῖὀὀ ἁῖὀὀçῖᾱὀçῖᯘ ὀῖᯘ FreeBSD ÷ῖçὀῆῖὀῖῖῖᾱὀ ὀçῖ ἁῖὀῖῖᐅ csup(1) ᐅ ὀçῖ ἁῖὀῖῖᐅ portsnap(8). Ἰδιῆνᾱβὼᾱ ἰᾱ ἁῆνᾱβὼᾱ ῆᾱὀᯘῖῖῖᾱὀ ἰᾱçᾱῖᾱ ἁῆᾱ ὀçῖ ἁῆῆᾱὀᯘὀᯘὀçὀ ὀçὀ Ὀῶεῖῖᾱᐅ ὀῖῖ ᐅῖῖᐅ ὀçῖ ἁῖᯘὀçὀᾱ 4.5.1 (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/ports-using.html) ὀῖᯘ ἁῖ÷ᾱῆῆᾱῖᯘᯘ.

Ç ääëäóÜóóäóç áíüò port áßíáë ääíëéÜ öüóí äðëP uóí ôí íá áéóÝëëäòä óóíí éäòÜëíáí ôíò éáé íá íäëëíPóäòä öçí äéäáééäóßá íäòääëpòóéóçò. Óóí áëüëíòëí ðánÜääëäíä äßíäòäé ääëäóÜóóäóç ôíò **Apache 2.2** äðí öçí ÓðëëíáP öüí Ports:

```
# cd /usr/ports/www/apache22
# make install clean
```

Já oçiaíðeēü ðeāñŸēðçia ôçð ÷ ñPôçð ports ôççí āāēāðŸóðāóç ēīāēōīēēŸ āīāē ç ēēāŸüðçā ðñīōāñīāPð òuī āðēēīāPī
 āāēāðŸóðāóçð. Āēā ðāñŸāēēñīā, Ÿōāí āāēāēēóðŸōā òñ **Apache 2.2** āðü ōā ports īðñāñðā íā āīāñāñðīēPóāðā ôççí
 āðēēīāP **mod_ldap** ēŸōñīōāð āðēð òēīP ôçç íāðāāēçðP **WITH_LDAP** òñō make(1):

```
# cd /usr/ports/www/apache22
# make WITH_LDAP="YES" install clean
```

ÀéááÜôâ ôçí áíúôçôá 4.5 ôïð Åã÷ãéñéãßïð ôïð FreeBSD, ×ñçóéïïðíéðíôáð ôçí Ports Collection (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/ports-using.html), áéá ðãñéóóüôãñãð ðëçñïïñßãð ó÷ãóééÜ ïà ôç Óôëëïãß ôúi Ports.

3.3 Ports Þ ðáêÝôá, ôé ðñÝðáé íá ÷ñçóéìðïéÞòù;

Ὁ ἀὰς Ὑδα ἀβίαε ὀφεί δὴ ἀναδοεῦσθαι ἀδερὸ δὴν-ἰαδᾶεῦδοεὶ Ὑία ports, Ὑνᾶ ἀβίαε δὴ ἀνεόουδᾶνι ἐὶ Ὑία ἀδεεραὶ αἱ
 ἀβίαε ἀδεεδῶσθαι P ὁ ἀαᾶδ Ὑδᾶός αὐτὸν οἷ δῆλαβι ἐπαεᾶ P αὐτὸ Ὑδῆια ἀεὶ ἀὰς Ὑοῆια. ἘὙεᾶ Ὑεραὶ Ὑ ÷ ἀε δὴ
 δεῖν ἰαδᾶσθαι ὀφεί:

ĐáêÝôá (Ýôĩéìá àêôăěÝóéìá)

- Δεί ἀνῑαῖνς ἀἀεάδὺόαός (ς ἰαόαῖῑῑῑῑῑῑ ἰαῖῑῑῑ ἂῑῑῑῑῑ ἰῑῑῑῑ ἰά ἕῑῑῑῑῑ ἂῑῑῑῑ ῑῑῑ).
- Ἀῑ ῑῑῑῑῑῑῑῑ ἰά ῑῑῑῑῑῑῑῑ ῑῑῑ ἂῑῑῑῑῑ ῑ ἰῑῑῑῑῑῑῑῑ ῑῑῑ ῑῑῑῑῑῑῑῑ.
- Ἀῑ ῑῑῑῑῑῑῑῑ ἰά ἀῑῑῑῑῑῑῑῑῑ ἰῑῑῑῑῑῑῑῑῑῑ ῑῑῑ ῑῑῑῑῑῑῑῑ ῑῑῑ.

Ports (őçãáßïò êpäéêáò)

- **Έξαιρούσθε τὸν ἀνθρώπου** τοῦ ἀδελφοῦ ὑμῶν τὸν ἀγαπῶντα ὑμᾶς. (Ὁ **Θαυμάσιος** ὁρίσθηκε νὰ ἀγαπᾷ τὸν ἀδελφὸν τὸν ἑαυτοῦ). Ἡ ὁα **ports** τὸν ἀνθρώπου τὸν ἀγαπῶντα ὑμᾶς ὁρίσθηκε νὰ ἀγαπᾷ, ὡς ὅτι ἡ ἀγαπῶντα ὑμᾶς ἀνθρώπου τοῦ ἀδελφοῦ, **τὸν ἀγαπᾷ** ὅσοι **τὸν ἀγαπᾷ** τὸν ἑαυτοῦ.
- **Τὸν ἀνθρώπου** τὸν ἀγαπᾷ ὅσοι ἀγαπᾷ (patches) αἱ οἱ ἀδελφοὶ τὸν ἀνθρώπου.

Ἄν ἀὰν Ὡ ÷ ἀὸα ἀεᾶεῤῥὸ ἀδᾶεῶρὸαᾶδ, ὠα δᾶεῤῥὸα δᾶεᾶῖν εᾶ ὠὸδ εᾶεῤῥὸῖ ἰεᾶ ÷ ᾶνῦ. Ἄν ὠὸδῶῖ ÷ ᾶεῤῥᾶᾶᾶ ἰᾶ
 ὀῖῶῖῥῶᾶᾶ εῤῥῶᾶδ ᾶδᾶεῖᾶῤῥὸ, ὠῶᾶ ḡ ἰῤῥῶᾶδ ὠῖν ports ᾶβῖᾶᾶ ḡ εᾶεῤῥᾶᾶḡ. (Ἐᾶᾶ ὠῖḡᾶᾶᾶ, Ἄν ÷ ᾶεῤῥᾶᾶᾶ
 ὀῖῶῖῥῶᾶ ᾶεῤῥ ὀῖῶῖῥῶᾶ ὠα δᾶεῤῥὸα, ἰḡᾶᾶᾶᾶ ἰῤῥὸ ὠḡδ ὠḡᾶᾶᾶδ ὠῖν ports ἰᾶ ὠḡᾶῖᾶᾶ ὠα ᾶεῤῥ ὠὸδ
 ὀῖῶῖῥῶᾶῖῖῖᾶ δᾶεῤῥὸα ÷ ᾶḡᾶῖῖῖᾶᾶᾶ ὠḡῖ Ἄῖῖᾶᾶ make package Ἐᾶᾶ Ἄῖḡᾶᾶῖῖῖᾶᾶ ὠα δᾶεῤῥὸα δῖῖ ᾶḡῖῖῖᾶᾶᾶᾶ
 ὠα ῤᾶᾶ ἰḡ ÷ Ἄῖᾶᾶᾶ.)

4 ΑέεΒίçç ôĩõ ÓóóôΠιάôĩò: Ðĩõ άβιάέ ôá run-levels;

Οι Linux ÷ ηςοείηθιέαθ οι όύοόγια âêßίςόçð SysV, âη ηο FreeBSD ÷ ηςοείηθιέαθ οι θάηάâιόέαêη όύοόγια âêßίςόçð BSD. Οι όύοόγια init(8) όýθιθ BSD, ââι θðÛñ÷θιí run-levels, ýðâθ οι âñ÷âßι /etc/inittab. Αίθß áέα áððÛ, ç âêßίςόç âêÝâ÷âðáέ áðñ Ýíá script âêßίςόçð, θι rc(8). Το script /etc/rc áέαâÛæáέθ οι âñ÷âßι /etc/defaults/rc.conf έάέθ οι âñ÷âßι /etc/rc.conf áέα ίά έάèηñßóáέ θιέâð ððçηâðßâð θηηέάέðάέ ίά ίάέêηθιθι. Ιέ ððçηâðßâð áððÝð ίάέêηÛίá ίâ ðçί áέðÝέâðç ðñι áίθßðθιέ÷÷ι script âêßίςόçð θιθ âηñßέηθíáέ ðθιθð έáðáέüñθιð /etc/rc.d/ έάέ /usr/local/etc/rc.d/. Οι scripts áððÛ âßíáέ θáññιιέά ίâ ðá scripts θιθ âηñßέηθíáέ ðθιθ έáððÛêñι /etc/init.d/ ðά ððððßιáðά Linux.

Ãéáôβ òðÛñ÷ïôí äÿí ôïðïèãóβãò ãéá óá scripts ãêêβίϗόϗò ôüí òðçñãóêñí; Óá scripts ðïò ãñβóêñíóáé óóñí éáðÛêññ /etc/rc.d/ ãβíáé ãéá ãóãñññãÝð ðïò áñPêññí óóñí “ãáóéêü” óýóóϗíá. (Ãéá ðãñÛããéãñá, ðéð cron(8), sshd(8), syslog(3), éáé Ûêêãð.) Óá scripts ðïò ãñβóêñíóáé óóñí éáðÛêññ /usr/local/etc/rc.d/ ãβíáé ãéá ãóãñññãÝð ðïò Ý÷ïí ããéãáðáðáêëã ãðü òïð ÷ñPóðãò, ùðüð ãéá ðãñÛããéãñá ï **Apache**, òñ **Squid**, ê.ê.ð.

Ðñéá ãβíáé ϗ ãéãóññÛ ïãðãñ ðïò “ãáóéêññ” òðóðPíáðïð éáé ôñí ãóãñññãñ ÷ñPóðϗ; Òñ FreeBSD áíãððýóóãðáé ùð Ýíá ðêPñãð êãéóñòñãéêñ óýóóϗíá. ïã Ûêêã ãñãéá, ï ðòñPíáð, ïé ãéãéêñêëêãð ðïò óóðóPíáðïð, ïé ãáóéêÝð áñðñéÝð (userland, óá ðñññãñÛñãáðá ùðüð òñ ls(1), cat(1), cp(1) êêð.), áíãððýóóñíóáé éáé ãçñíóéãññíóáé ïãêβ, ùð óýñññ. Ãððñ áíãðÝñãðáé éáé ùð “ãáóéêü” óýóóϗíá. ïé ãóãñññãÝð ðïò ããéãéβóðáñíóáé ãðü òïð ÷ñPóðãò, ããñ áñPêññí óóñí “ãáóéêü” óýóóϗíá, éáé ðÝðñéãð ãβíáé ãéá ðãñÛããéãñá ï **Apache**, òñ **X11**, ï **Mozilla Firefox**, êêð. Ãððññ ðïò ãβãñðð ïé ãóãñññãÝð, ããñéêÛ ããéãéβóðáñíóáé ïã ðϗ ÷ñPóϗ ðϗð Óðêññãðð ÐãêÝðñí éáé Ports (article.html#SOFTWARE) òñ FreeBSD. Æéá ïá ïã ÷ññêñññí ãðü òñ ððñéêñðñ “ãáóéêü” óýóóϗíá, ïé ãóãñññãÝð ÷ñPóðϗ óóñPêñð ããéãéβóðáñíóáé óã òðñéãáðáêñññð òñ /usr/local/.ðóé óá ãéðãéÝóéñá ðñññãñÛñãáðá ôñí ÷ñϗóðññ ãñβóêñíóáé óóñPêñð óóñí éáðÛêññ /usr/local/bin/, óá áñðóðñé÷ã ãñ÷ãñ ãñã ãñðéβóãññí òñðð óóñí éáðÛêññ /usr/local/etc/, ê.ñ.ê.

ïé òðçñãóβãò áñãñññðñéññíóáé ïã ðϗñ ðññíðêPê ïéãð ãããñããðð ðýðññ ãñññãðððçñããðãð_enable="YES" óóñí ãñ÷ãññ /etc/rc.conf (rc.conf(5)). Ñβñðã ïéá ïáðéÛ óóñí ãñ÷ãññ /etc/defaults/rc.conf ãéá ïá ããβðã ðéð ðñññðéêñãÝð òñð òðóðPíáðïð. ïé ãñðéβóãéð ðïò êÛññññá óóñí ãñ÷ãññ /etc/rc.conf ððãñéó÷ñññí Ýñññðé ôññ ðñññðéêñãññ áððññ. Æðβóϗð, éáðÛ ðϗñ ããéãáðÛóðáðϗ ðñññðéãðññ ãóãñññãññ, ããããéêñãβðã ùðé ãéããÛóáðã ðϗñ áñðóðñé÷ϗ ðãêñçññβñóϗ ãéá ïá ãñãñðã ðüð ïá áñãñññðñéPóãðã òð÷ññ ó÷ãðéêÝð òðçñãóβãò.

Òñ ãéññññññ ãðüððáñíá ãðü òñ ãñ÷ãññ /etc/rc.conf áñãñññðñéãñ ðϗñ òðçñãóβã sshd(8) éáé òññ **Apache 2.2**. Æðβóϗð éãéññêñãé ùðé ï **Apache** éã ïãééñPóãé ïã áñãñññðñéϗÝñϗ ðϗ ãñññññðϗðá SSL.

```
# enable SSHD
sshd_enable="YES"
# enable Apache with SSL
apache2_enable="YES"
apache2_flags="-DSSL"
```

Ãðü ðϗ ðóéãñP ðïò ïéá òðçñãóβã áñãñññðñéϗêëβ óóñí ãñ÷ãññ /etc/rc.conf, ïðññãβðã ïá ðϗñ ïãééñPóãðã ãðãðéããðð ãðü ðϗ ãñãññP áñðññññ (÷ññβð ïá ÷ñãéÛãéãðáé ïá ððáññéêññPóãðã òñ óýóóϗíá óáð):

```
# /etc/rc.d/sshd start
```

Ãñ ïéá òðçñãóβã ããñ Ý÷ãé áñãñññðñéϗêëβ óóñí ãñ÷ãññ ãððñ, ïðññãβðã ïá áñññãéÛóãðã ðϗñ ãéêβίϗόϗò ðϗð ãðü ðϗñ ãñãññP áñðñññ ïã ðϗñ ãðéêññãP forcestart:

```
# /etc/rc.d/sshd forcestart
```

5 Ñýñéíóϗ Æéêôÿñ

5.1 ÆéãðãóÝò Æéêôÿñ

Ãñðβ ãéá òñ ããñéêñ áñãññññéóðéêñ ðýðññ *ethX* ðïò ÷ñϗóéññðñéãñ òñ Linux ãéá ðϗñ áñãññññéóϗ ïéãð ãéãðããðð ãéêôÿñ, òñ FreeBSD ÷ñϗóéññðñéãñ ùð áñãññññéóðéêñ òñ ùññá òñð ðñññãñÛñãðññ ïãPãϗóϗð ãéññññññññññ ãðü Ýñá ãñéêñ. ϗ ãéññññññññññ ãðü ðϗñ áñðññP ifconfig(8) ããβ÷ñãé äÿñ êÛññãð ãéêôÿñ Intel® Pro 1000 (ïã áñãññññéóðéêñ em0 and em1):

```
% ifconfig
em0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=b<RXCSUM, TXCSUM, VLAN_MTU>
    inet 10.10.10.100 netmask 0xffffffff00 broadcast 10.10.10.255
    ether 00:50:56:a7:70:b2
    media: Ethernet autoselect (1000baseTX <full-duplex>)
    status: active
em1: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=b<RXCSUM, TXCSUM, VLAN_MTU>
    inet 192.168.10.222 netmask 0xffffffff00 broadcast 192.168.10.255
    ether 00:50:56:a7:03:2b
    media: Ethernet autoselect (1000baseTX <full-duplex>)
    status: active
```

5.2 ÑõèìΒóåéò Äéåðëýíóåùì IP

[illegible]

```
hostname="server1.example.com"
ifconfig_em0="inet 10.10.10.100 netmask 255.255.255.0"
defaultrouter="10.10.10.1"
```

×ñçóëiïðiéΠóôâ ôçí áêüëiøëç êáôá÷þñçóç áéá íá êáëiñßóáôâ üôê iéá äéáðáöÞ éá êáiâÛiáé ñõëißóáèð iÝòù DHCP:

```
hostname="server1.example.com"
ifconfig_em0="DHCP"
```

6 Firewall

Όλοι Linux → η-configurēi tēa bōaē oi **IPTABLES** oi i dībi dānY → aē dōch nāo bāo firewall oā a dō bāa i dōnPrā. Oi FreeBSD dānY → aē a dō bōcō firewall i Yōu oi dō dōnPrā. Aēa oci aēn bāa aēa, oi FreeBSD dānY → aē o n bāa firewalls:

- IPFIREWALL (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-ipfw.html)
- IPFILTER (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-ipf.html)
- PF (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/firewalls-pf.html)

[illegible]

DánÜäëàìá áúò éáíuíá ôïð IPFW ðïð aðëônÝðäé áéoãñ÷ùìáíá äääñÝía ðñïð ôçí òðçñáoßá SSH:

```
ipfw add allow tcp from any to me 22 in via $ext_if
```

Ὁ **IPFILTER** ἀβιάε ἰεὰ ἀοάνῖαP firewall τοῦ ἀιάδὸγὸόἀοᾶε ἀδὺ οἱ Darren Reed. Ἀἱ ὅδε ἀοᾶ÷οᾶβ ἁεᾶεῦ ἁεὶ οἱ FreeBSD, ἁεὶ ὅδε ἰἀοᾶοᾶνᾶβ ἁεὶ οᾶ Ὑεᾶ ἁεᾶοἰοᾶεῦ, ὁδὶδᾶνᾶεᾶἰᾶᾶᾦ Ὑῖν οἱ NetBSD, OpenBSD, SunOS, HP/UX, ἁεὶ Solaris.

Ἐάνῦᾶεᾶἰ ἀῖνὸ ἐᾶῖνᾶ ἁεὶ οἱ **IPFILTER** τοῦ ἀδεῶν Ὑᾶε ἀεῶᾶñ÷ῖᾶἰᾶ ἁᾶᾦ Ὑῖν τοῦ οἱ ὁδὶδᾶοᾶ **SSH**:

```
pass in on $ext_if proto tcp from any to any port = 22
```

Ἐ ὁᾶεᾶοᾶᾶ ἀοάνῖαP firewall, οἱ **PF**, ἀιάδὸγὸόἀοᾶε ἀδὺ οἱ OpenBSD project. Ὁ **PF** ἀεῖοᾶᾶᾶᾶᾶ ὁδὶδᾶοᾶ **IPFILTER**, ἁεὶ Ὑᾶε Ἐ ὁγῖᾶᾶ τοῦ **PF** ἀβιάε ἁνᾶοῦ Ἐᾶᾦῖᾶ ἰᾶ ἀοᾶ τοῦ **IPFILTER**. Ὁ **PF** ἰδῖᾦᾶ ἰᾶ ὁῖᾶᾶᾶᾶᾶ ἰᾶ οἱ altq(4) ἁεὶ ἰᾶ Ἐᾶñ÷ᾶε ὁδὶδᾶοᾶᾶ ὁγῖᾶ QoS.

Ἐάνῦᾶεᾶἰ ἐᾶῖνᾶ οἱ **PF** τοῦ ἀδεῶν Ὑᾶε ἀεῶᾶñ÷ῖᾶἰᾶ ἁᾶᾦ Ὑῖν τοῦ οἱ ὁδὶδᾶοᾶ **SSH**:

```
pass in on $ext_if inet proto tcp from any to ($ext_if) port 22
```

7 Ἀἰᾶᾶᾶᾶᾶᾶ οἱ FreeBSD

Ὁδὶδᾶñ÷ῖᾶ ὁᾶᾶᾶ ἰῖᾶᾶ ἁεὶ οἱ ἀἰᾶᾶᾶᾶᾶᾶ ἁῖν ὁδὸᾶᾶᾶᾶᾶ FreeBSD: Ἰῖᾶ οἱ ὁδὶδᾶᾶᾶ ἔᾶᾶᾶ, ἰῖᾶ Ὑᾶᾶᾶᾶᾶ (binary) ἀἰᾶᾶᾶᾶᾶᾶ, ἁεὶ ἰῖᾶ οἱ CD ἁᾶᾶᾶᾶᾶᾶᾶᾶ.

Ἐ ἁᾶᾶᾶᾶᾶᾶ ἰῖᾶ οἱ ὁδὶδᾶᾶᾶ ἔᾶᾶᾶ ἀβιάε Ἐ ὁῖ ὁῖᾶᾶᾶᾶ, ἁεῦ ὁᾦᾶᾶ Ὑᾶᾶ ἁεὶ ὁ ἰᾶᾶᾶᾶᾶᾶ ὁῖᾶᾶᾶ. Ἐ ἁᾶᾶᾶᾶᾶᾶ ἀοᾶ ὁᾶᾶᾶᾶᾶᾶ ὁῖ ὁᾶ÷ᾦᾶᾶᾶ οἱ ὁῖᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶ οἱ ὁδὶδᾶᾶᾶ ἔᾶᾶᾶ οἱ FreeBSD ἰᾶ οἱ ἔᾶᾶᾶ οἱ FreeBSD τοῦ ἁᾦᾶᾶᾶᾶ ὁῖᾶᾶ ἁῖᾶᾶᾶᾶᾶᾶ **CVS** (Concurrent Versioning System). Ἀδὺ ὁ ὁᾶᾶᾶ τοῦ ὁῖᾶᾶᾶ ὁῖᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶᾶᾶ ὁῖᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶᾶ ὁ÷ᾶᾶᾶᾶ ἰᾶ οἱ ὁγῖᾶᾶ ἁἰᾶᾶᾶᾶᾶᾶ ἰῖᾶ ὁδὶδᾶᾶᾶ ἔᾶᾶᾶ, ἁᾶᾶᾶ ὁῖ ἔᾶᾶᾶᾶ Ἀῖᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶ ἁῖᾶᾶᾶᾶᾶᾶ http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/updating-upgrading.html ὁῖ Ἀᾶ÷ᾶᾶᾶᾶᾶ οἱ FreeBSD.

Ἰᾶ Ὑᾶᾶᾶᾶᾶ (binary) ἀἰᾶᾶᾶᾶᾶᾶᾶ, ἀβιάε Ἐᾶᾦῖᾶᾶ ἰᾶ ὁ ὁ÷ᾦᾶᾶ ὁδὶδᾶᾶᾶ **yum** **P** **apt-get** ἁεὶ οἱ ἀἰᾶᾶᾶᾶᾶᾶ ἁῖν ὁδὸᾶᾶᾶᾶᾶ Linux. Ἐ ἁῖᾶᾶᾶ **freebsd-update(8)** ἔᾶ ἔᾶᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶᾶᾶᾶ ἁεὶ ἔᾶ ὁδὶδᾶᾶᾶᾶᾶᾶᾶ. Ἰδῖᾦᾶᾶ ἰᾶ ἔᾶᾦᾦᾶᾶᾶ ὁἱ ἁῖᾶᾶᾶᾶ, ἁῖᾶ ὁᾶᾶᾶ ἁᾶᾶᾶᾶᾶᾶ ἁᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶ ὁδὶδᾶᾶᾶ, ἰᾶ ὁ ὁ÷ᾦᾶᾶ οἱ **cron(8)**.

Ὁἱᾶᾶᾶᾶᾶ: Ἀῖ ὁᾦᾶᾶᾶᾶ ἰᾶ ÷ᾦᾶᾶᾶᾶᾶᾶ ὁῖ **cron(8)** ἁεὶ ὁᾦᾶᾶᾶᾶᾶᾶᾶᾶ ἁἰᾶᾶᾶᾶᾶᾶᾶ, ἁᾶᾶᾶᾶᾶᾶᾶ ὁδὶδᾶᾶᾶᾶᾶᾶ ὁἱ ἁῖᾶᾶᾶ **freebsd-update** **cron** ὁῖ ἁᾦ÷ᾶᾦ **crontab(1)** ἁεὶ ἰᾶ ἁᾶ÷ᾶᾶᾶᾶᾶᾶ Ἐ ὁᾶᾶᾶᾶᾶᾶ ἰᾶ ἁᾦᾶᾶᾶ ἁἰᾶᾶᾶ ὁἱ **Bᾶᾶ** ὁᾶᾶᾶ ἁῖν Ὑῖν ἰᾶᾶᾶᾶ ἁᾦᾶᾶᾶ ἰᾶ÷ᾶᾶᾶᾶ.

```
0 3 * * * root /usr/sbin/freebsd-update cron
```

Ἐ ὁᾶᾶᾶᾶᾶᾶ ἁᾶᾶᾶᾶ ἁἰᾶᾶᾶᾶᾶᾶ, ἰῖᾶ οἱ CD ἁᾶᾶᾶᾶᾶᾶᾶᾶ, ἀβιάε ἁᾦᾶᾶᾶ ἰᾶᾶᾶᾶᾶ. Ἀᾶᾶᾶ ἁᾶᾶᾶᾶᾶ ἁῖν οἱ CD ἁᾶᾶᾶᾶᾶᾶᾶ ἁεὶ ἁᾶᾶᾶᾶᾶ ὁἱ ἁῖᾶᾶᾶᾶ÷ᾶ ἁᾶᾶᾶᾶ ἁἰᾶᾶᾶᾶᾶᾶ (upgrade).

8 **procfs**: Ἐᾶᾶᾶᾶᾶ ἁᾶᾶᾶ ὁ÷ᾶ ἰᾶ÷ᾶᾶᾶᾶ

Ὁἱ Linux, ἔᾶ ÷ᾦᾶᾶᾶᾶ ἰᾶ ἁᾶᾶᾶ ὁῖ **/proc/sys/net/ipv4/ip_forward** ἁεὶ ἰᾶ ἔᾶᾦᾦᾶᾶᾶ ἁἰ ἀβιάε ἁἰᾦᾦᾦᾦᾦᾦᾦᾦ Ἐ ὁᾦᾶᾶᾶ **IP** (IP forwarding). Ὁἱ FreeBSD ἔᾶ ὁᾦᾶᾶ ἰᾶ ÷ᾦᾶᾶᾶᾶᾶᾶ ὁῖ **sysctl(8)** ἁεὶ ἰᾶ ἁᾶᾶᾶ

αἰὸν ἐὰν Ὑπεῖον ἡὐεῖβῶαῖον οἶον ὁῶῶῶΠῖαῖον, ἐὰν οἱ προφς(5) ἐαὐῖαβῶαῖ ὁαῖν÷çῖΥῖ ὁῖ ὁῖνῶῶῶῶ ἁῖαῖῶῶῶ οἶῶ
ἐὰν οἶῶῶῶῶ. (Αῖ ἐὰν ç αῖῶῖῖ sysctl ἁβῖαῖ ἁδβῶç ἁῖῶῖΥῶῖç ἐὰν ὁῖ Linux).

Όλοι θαπὺἀαεαία ὁδε διηπεροχοῖ IP, ἐὰ ÷ η̅χοεῖηδιεῖρύοαι ὁεῖ ἀεὺεῖοδε ἀῖοῖεP ἀεῖ ῖα ἐαεῖηβοῖοῖα ἂς ε̅ α̅ ὁῖαδουεχοῖα ἀδδP
 ἀβῖαεῖ ἀῖαῖαῖδιεῖεῖYῖς οἶ Yῖα FreeBSD ὀγόοεῖα:

```
% sysctl net.inet.ip.forwarding
net.inet.ip.forwarding: 0
```

Ç åđéeĩãP -a ÷ñçóéiĩđĩéãßôáé ãéá íá ðŨñĩõĩã ìéá ëßóóá ìã üëãð ôéð ñõèìßóãéð õĩõ óõóôPĩáõĩò:

```
% sysctl -a
kern.ostype: FreeBSD
kern.osrelease: 6.2-RELEASE-p9
kern.osrevision: 199506
kern.version: FreeBSD 6.2-RELEASE-p9 #0: Thu Nov 29 04:07:33 UTC 2007
        root@i386-builder.daemonology.net:/usr/obj/usr/src/sys/GENERIC

kern.maxvnodes: 17517
kern.maxproc: 1988
kern.maxfiles: 3976
kern.argmax: 262144
kern.securelevel: -1
kern.hostname: server1
kern.hostid: 0
kern.clockrate: { hz = 1000, tick = 1000, profhz = 666, stathz = 133 }
kern.posix1version: 200112
...
```

Όχι!Βούοç: ÊÜðíεαò áðü öéo öéíÝò ðĩö äãß÷íáé ç áíôîÊP_{sysctl} áßíáé ìüñ äéá áíÜáíüòç.

Ὁ ὁὔν ÷ τοῖς ἀναεῖδοροαῖο ὑδρὸ ἀδαεῖδοαῖοαῖ οἱ procfs, ὑδρὸ ἀεῖ ἀνῦἈαεῖαῖα ὑδαῖ ἀεῖοαῖαβῖα ἀεῖοαῖαβῖα εἰαεῖοαῖα, οἱ ἰδῖβῖ εὔῖαε ÷ ἡβῖος ὅςδ οἱ αἰοῖβῖ truss(1) ἀεῖ ὅςῖ αἰβ ÷ ἰαῖος ὅῖ εἰβῖαῖ οῖοῖβῖαῖο, εἰε ἀεῖ ὅςῖ Ὀῖαἰαῖοὑῖοῖα ἰα Ἀεῖοαῖῖῖοῖα οἷο Linux (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/linuxemu.html). (Αἱ εἰε ὅςῖ Ὀῖαἰαῖοὑῖοῖα ἰα Ἀεῖοαῖῖῖοῖα οἷο Linux ÷ ἡῖοῖβῖαῖο οἱ ἀεῖο ὅςδ procfs, οἱ linprocfs(5)). Αἱ ÷ ἡαῖῖῖῖῖῖ ἰα ὁῖοαῖοῖοβῖαῖ οἱ procfs, ἰδῖἡῖαῖ ἰα ὁῖοῖῖῖῖῖῖ ὅςῖ ἀεῖοῖοῖο ἡἡἡἡἡῖ οἱ ἡῖ ἡῖ ÷ ἡῖ /etc/fstab:

```
proc          /proc          procfs  rw,noauto          0          0
```

Ὁγιαβυός: Ὁ ἀδελφεῖς ^{no}auto ἐὰ ἀιδιᾶβόας ὁγί ἀδιδυῖαδός δῆτοῦ ἡνδύος διῶ /proc ἐὰδὺ ὁγί ἀελβίγος διῶ
 ὁδὸδπλαδὶδ.

ĐñĩóãñôPóóâ éáôũđéĩ ôçĩ procfs ÷ñçóëĩđĩéĩpĩóáò ôçĩ áéũëĩõđç áĩôĩëP:

```
# mount /proc
```


9 ÓôίϗέέôìÝíâò ÁíôïëÝò

9.1 Äéá÷âβñέόϗ ÐáëÝòùí

ÁíôïëP ôïò Linux (Red Hat/Debian)	Áíôβóôïë÷ç áíôïëP FreeBSD	Óëïðüò
<code>yum install package / apt-get install package</code>	<code>pkg_add -r package</code>	ÄãéáôÜóóáόϗ ÐáëÝòïò áðü áðñáéñòóìÝíñ áïòðçñáðçòP
<code>rpm -ivh package / dpkg -i package</code>	<code>pkg_add -v package</code>	ÄãéáôÜóóáόϗ ÐáëÝòïò
<code>rpm -qa / dpkg -l</code>	<code>pkg_info</code>	Ëβóóá äãéáôáóóçÝíñí ÐáëÝòùí

9.2 Äéá÷âβñέόϗ ÓóóôPíáôïò

ÁíôïëP Linux	Áíôβóôïë÷ç áíôïëP FreeBSD	Óëïðüò
<code>lspci</code>	<code>pciconf</code>	Ëβóóá óóóêãðí PCI
<code>lsmod</code>	<code>kldstat</code>	Ëβóóá ôñòòùíÝíñí áñëññüÜòùí ðòñPíá
<code>modprobe</code>	<code>kldload / kldunload</code>	Öññòòòç/Áðñüññòòòç áñëññüÜòùí ðòñPíá
<code>strace</code>	<code>truss</code>	Áíβ÷íáðóϗ êëPóáñí óóóôPíáôïò

10 ÓôìðãñÜóíáóá

Äðáëðéóóíγíä üòé áðòò ôí êãβíññí óáð ðãññáβ÷ã áñëããóÝò ðççññíññáð ãéá íá íãééPóáðã íä ôí FreeBSD. Äéá ðãñéóóüðãñãð éáé ðëí êãðññãñãáð ðççññíññáð, ðãñáééáéγíä íá áéáãÜóáðã ôí Äã÷áéññáéí ôïò FreeBSD (http://www.FreeBSD.org/doc/el_GR.ISO8859-7/books/handbook/index.html) ôí ïðññí áðβόçò ðãñéÝ÷ãé éáé ðñéëÜ èÝíáóá ðñò äãí éáéγýðççáí éáéüéïò óôí ðãññí êãβíññí.