

- [illegible]

[illegible]

ÐÝíá áðí ðçí áðéeíáP ðíððíð èáèðíðíðáð ððÛí÷íðí ìÝèíáíè òðçðíáðíð òíð áðèíð. Ì ðíðíð ÷íçðèíðíèáð òí
 áíáèáíðí ááèáðÛððáðçð òíð òðððíáðíð /stand/sysinstall. Áðí òí 2.1.7-RELEASE èáè íáðÛ ç sysinstall
 áðèíðíèáð òí òððèíð òíð áðèíðí áðáèáP áðèðíÝðáè ðçí áðáðèáðáð áèèáP òðí label (ðððèíð) èáè òðá òíðíáðá
 (partitions) òíð áðèíð. ÁðèðèÝíð òáð áðèðíÝðáè íá áðèçèçáÝðáðá ðèð áèèáÝð ìííð òðíð òðáèáèíèÝíð áðèíð ÷íðíðð
 íá áðçíáÛáè òíðð òðíèíèðíðð. Ì ááÝðáíðð ðíððíð áíáíè íá áèðáèÝðáðá áèÛòíðáð áíðíèÝð ìá òí ÷Ýíè áðí ðçí áíáíð
 áíðíèðí ùð root. Áí áðèèÝíáðá ðçí áðíèèáèððèèP èáèðíðíðá ÷íðáèÛáðá íá áèðáèÝðáðá ìííð 2-3 áíðíèÝð áíð ìá òí
 sysinstall ðíÝðáè áíðèÝðáðá èèáÛèè ðáíáðÛíð.

1.2 Ĩnéóìïß

Ç áéá÷âßñéóç äßöêùí òôí UNIX® Ý÷áé äþóáé íÝá Ýíñíé óá òðŨñ÷íõóáð ëÝíáéð. Ôí ðáñáéŨòù èáñéëüäéí áîçääß òçí íñíëüäß ðíõ ÷ñçóéíðíëíüíá óá áóòù òí èáßíáñí éáé òòí FreeBSD äáñééŨ (ðñíõóáðð).

- [illegible]

1.3 ὈçἰᾱḂᾱ ðῖò ðñÝðᾱέ ἰᾱ ðñῖóÝἰᾱðᾱ ἑᾱέ ðᾱᾱḂᾱð

Ἀþóðᾱ ἰᾱᾱÜεç ðñῖóῖ÷þ ðόç ᾱέᾱᾱέᾱóḂᾱ, ᾱῖ ᾱᾱῖ εÜᾱᾱðᾱ ðᾱ ἰÝðñᾱ óᾱð ἑᾱέ ᾱḂἰᾱέ εÜεῖð ἰðῖñᾱḂ ἰᾱ ἑᾱᾱóðñÝðᾱðᾱ ðᾱ ðᾱñéᾱ÷ῖᾱῖᾱ Üεεῖῖ ᾱḂóεῖῖ ðῖò ðóððῖᾱðῖð.

ðñῖóÝἰðᾱ ðé εÜἰᾱðᾱ. ἈḂἰᾱέ ðῖεý ᾱýεῖῖ ἰᾱ ἑᾱᾱóðñÝðᾱðᾱ εÜεῖð ᾱḂóεῖ ᾱῖðéᾱýῖῖðᾱð ἰᾱ ᾱððÝð ðéð ᾱῖðῖεÝð. Ἀῖ Ý÷ᾱðᾱ ᾱῖðéᾱῖεḂᾱð ᾱéÝᾱῖðᾱ ðᾱ ἰçῖýἰᾱðᾱ ðῖò ððñῖᾱ ἑᾱðÜ ðç ᾱέᾱᾱέᾱóḂᾱ ᾱéêḂῖçóçð ᾱéᾱ ἰᾱ ᾱñᾱḂðᾱ ðç óúóðþ ððóéᾱðþ ᾱḂóεῖð.

ὈðóééÜ ᾱᾱῖ Ý÷ῖðἰᾱ ἑᾱἰḂᾱ ᾱðéýῖç ᾱéᾱ æçῖéÝð ðῖò ἰðῖñᾱḂ ἰᾱ ðñῖεççεῖýῖ. Ç ᾱðéýῖç ᾱḂἰᾱέ ᾱééþ óᾱð!

1.4 Zip, Jazz, ἑᾱέ Üεéᾱ ᾱóᾱéñῖῖἰᾱῖᾱ ἰÝóᾱ

Ἰé ᾱóᾱéñῖῖᾱñé ᾱḂóεῖé ἰðῖñῖýῖ ἰᾱ ᾱéᾱῖñöüεῖýῖ óᾱῖ ἑᾱñῖéῖḂ ᾱḂóεῖé. Ὀῖ óçἰᾱῖðééü ᾱḂἰᾱέ ἰᾱ ᾱḂἰᾱέ óðῖᾱἰÝñð ἰ ῖᾱçᾱüð ðῖò ᾱḂóεῖð ἑᾱðÜ ðçῖ ᾱéêḂῖçóç ðῖò ðóððῖᾱðῖð ἑᾱέ ἰᾱ ᾱéðéÝðᾱ ἰÝóᾱ þóðᾱ ἰᾱ ἰðῖñÝóᾱé ἰ ððñῖᾱð ἰᾱ ᾱᾱḂ óúóðÜ ðçῖ ᾱᾱüἰᾱðñḂᾱ ðῖò ᾱḂóεῖð. ἘῖéðÜῖðᾱ ðé εÝᾱé ç ᾱῖðῖεþ dmesg ᾱéᾱ ἰᾱ ᾱᾱḂðᾱ ᾱῖ ç ððóéᾱðþ ᾱḂἰᾱέ óóçῖ εḂóðᾱ. Ἀéᾱ ðᾱñÜᾱᾱéᾱῖᾱ ᾱῖ ἰ ððñῖᾱð ᾱñÜðᾱé:

Can't get the size

óüðᾱ ᾱᾱῖ ððÜñ÷ᾱé ᾱéðéÝðᾱ óðῖῖ ῖᾱçᾱü. Ἀῖ ᾱḂἰᾱέ ᾱððü ἑᾱ ðñÝðᾱέ ἰᾱ ᾱðᾱῖᾱéééῖþóᾱðᾱ ðῖ ἰç÷Üῖçἰᾱ ðñéῖ ᾱῖéçῖÜóᾱðᾱ ἰᾱ ᾱéᾱῖñöþóᾱðᾱ ðçῖ ᾱéðéÝðᾱ.

2 Ἀéἰῖñöþῖῖἰᾱðᾱ ᾱḂóéῖðð ᾱéᾱ ᾱðῖééᾱéóðéêþ ðéᾱéðῖðñᾱḂᾱ

2.1 Ἀéóᾱᾱüᾱþ

Ἀððþ ç ðᾱñÜᾱñᾱðῖð ðᾱñéᾱñÜóᾱé ðþð ἰᾱ ððéÜἰᾱðᾱ ᾱḂóéῖðð ἰüñῖ ᾱéᾱ ðῖ FreeBSD. ἘðῖçéᾱḂðᾱ ὑðé ἰé ᾱḂóéῖé ᾱðῖééᾱéóðéêþð éᾱéðῖðñᾱḂᾱð ᾱᾱῖ ἰðῖñῖýῖ ἰᾱ ᾱéᾱᾱóðῖýῖ ᾱðü Üεéᾱ éᾱéðῖðñᾱééÜ, ῖýðᾱ ἰᾱ εÜñῖóῖ boot.

2.2 ðþð ἰᾱ ððéÜἰᾱðᾱ ᾱḂóéῖðð ᾱðῖééᾱéóðéêþð éᾱéðῖðñᾱḂᾱð ἰᾱ ðῖ Sysinstall

To /stand/sysinstall, ðῖ ðñüᾱñᾱῖᾱ ᾱᾱéᾱðÜóðᾱóçð ðῖò ðóððῖᾱðῖð, Ý÷ᾱé ᾱðᾱéðᾱéᾱḂ ðóðéð ðᾱéᾱððᾱḂð ðῖò ᾱéᾱüóᾱéð þóðᾱ ἰᾱ ᾱðῖῖðῖéᾱḂ ðçῖ ᾱéᾱᾱéᾱóḂᾱ ÷ññéóῖῖý ðüñ ᾱḂóéῖῖ ἑᾱέ ἰᾱ ᾱðᾱéðᾱḂ ééᾱüðᾱñç ðñῖððÜéᾱéᾱ. Ὀᾱ ðñῖᾱñÜἰᾱðᾱ fdisk ἑᾱé disklabel ðῖò ððÜñ÷ῖðῖ óðῖ sysinstall ᾱḂἰᾱέ ᾱñᾱðééῖý ðᾱñéᾱÜεῖῖðῖð (GUI - Graphical User Interface) ἑᾱέ ἰᾱéþῖῖóῖ ðῖ ἰðÝñᾱἰᾱ ðῖò εῖðḂἰᾱðῖð ðüñ ᾱḂóéῖῖ. ἈḂἰᾱέ ðñῖðᾱῖþð ἰ ᾱðéῖεüðᾱñῖð ðñüðῖð ἰᾱ éüðᾱðᾱ ᾱḂóéῖðð ᾱðü ðçῖ Ýéᾱῖóç 2.1.7 ἑᾱέ ἰᾱðÜ ðῖò FreeBSD.

1. Ἰᾱééῖþóðᾱ ðῖ sysinstall þð root ᾱñÜῖῖῖðᾱð

```
# /stand/sysinstall
```

óóçῖ ᾱñᾱῖþ ᾱῖðῖεþῖ.

2. ἈðééÝἰðᾱ Index.
3. ἈðééÝἰðᾱ Partition.
4. ἈðééÝἰðᾱ ðῖ ᾱḂóéῖ ðῖò εÝéᾱðᾱ ἰᾱ ᾱᾱéᾱóᾱóðþóᾱðᾱ ÷ñçóéῖῖðῖéþῖðᾱð ðᾱ ᾱᾱéÜéᾱ ἑᾱέ ἰᾱðÜ **SPACE**.

5. Ἀί εά ÷ ñçóéíðìéþóáðå üëí òí äßóëí ἁέά òí FreeBSD, ἄðéëÝíðå Ἀ.
6. Ἰüëéð óáð ñòðþóáé áí üíòüð èÝéåðå íá òí èÛíáðå áððü (Do you still want to do this) ἄðáíðþóðå Yes.
7. ἈðéëÝíðå Write.
8. Ἐά óáð äåÛéåé íéá ðñíäéäíðìþçóç ó÷äðééÛ íå ôçí äåññåðþ óå ððÛñ÷ííóá óðóðþíáðå ἄðáíðþóðå Yes.
9. Ἰüëéð óáð ñòðþóáé áí èÝéåðå íá äåéáðóðþóáðå Ýíá boot loader, ἄðéëÝíðå None ἁέά íá ἄðüýñåðå ïðíéääþðíðå äééääþ óòí Master Boot Record. Ç äåéáðÛóðáóç áñüð boot loader ÷ ñåéÛæåðåé üüí óå éáéñýñéåð äåéáðóðÛóáéð òí FreeBSD þ áí ó÷äåéÛæåðå íá òíðñéåðþóáðå òí äßóëí óå èÛðíéí Ûéëí íç÷Ûíçá.
10. Ðáðþóðå **ENTER** óòí áçíäñüðéëü ïþííá ðñ èÝáé “Wrote FDISK partition information out successfully”.
11. ἈðéëÝíðå Quit ἁέά íá äåäßðå áðü òí FDISK Editor éáé ïåðÛ **ESCAPE** ἁέά íá ἄðéóðñÝðåðå óòí Index menu.
12. ἈðéëÝíðå Label áðü òí Index menu.
13. ἸñÛóðå òí äßóëí óáð üðüð èÝéåðå (äåþ ïñßæåðå óå partitions). Ἀí èÝéåðå üüí Ýíá partition ðáðþóðå òí c ἁέά íá äçíéíðñåðåðå òí partition. ἸåðÛ ἄðèð äå÷äåðå ðéð ðñíäðééñÝð ἁέá óå ðñíéäéñéóíÝíá size, partition type Filesystem, éáé mountpoint (òí ïðííí äåí ÷ ñçóéíðìéþóáé).
14. Ðáðþóðå w üüéð ðåäéþóáðå éáé ἄðééðñþóðå ðéð äééääÝð ἁέá íá óñíá÷ßóðå. Òí filesystem èå ðåñåóðåß áððüíáðå áðü ôçí áíðñéþ newfs äéðüð áí ἄðéëÝíðå òí áíðßèåðí. (Ἀí äÛæåðå éáéñýññéí partition óáð óðíöÝññé íá òí èÛíáðå!). Ἐά óáð äþóáé òí èÛèð:

```
Error mounting /mnt/dev/ad2s1e on /mnt/blah : No such file or directory
```

Ἀññþóðå òí.

15. Ðáðþóðå óñíá÷ñíáí òí **ESCAPE** ἁέά íá äåäßðå.

2.3 Ðüð íá ððéÛíåðå äßóëíðð ἄðñéäééóðéèþð èåéðíðñåßåð ïÝóå áðü ôçí äñåíð áíðñéþí

ἈéðåéÝóðå ðéð ðåñåéÛðü áíðñéÝð áíðééäééóðþíóáð òí ad2 íå òí üññá ôçð óðóéåðð òíð äßóëíð (ññÛððå dmesg íá äéÝññåðå áí äßíáé òüóðü).

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 | disklabel -B -R -r ad2 /dev/stdin
ἘÝéíðíå üüí Ýíá partition, ïðüðå ïðñíýíå íå ÷ ñçóéíðìéþóáð òí èññÛðé 'c':
# newfs /dev/ad2c
```

Ἀí ÷ ñåéÛæåðåé íá äééÛíåðå òí disklabel ἁέά íå ÷ ñçóéíðìéþóáð ðñééäðèÛ partitions (ἁέá ðåñÛäåéñíå áí èÝéåðå swap) ðüðå èÛíå:

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 > /tmp/label
Ἀñßíðå òí disklabel ἁέά íå ðñíðéÝóðåðå partitions:
# vi /tmp/label
# disklabel -B -R -r ad2 /tmp/label
äéðåéÝóðå ôçí áíðñéþ newfs óðå partitions üðüð ðñÝðåé
```

Ἰ äßóëíð óáð äßíáé Ýðíéíðð ðñðð ÷ ñþóç.

3 Ἀεάιιñöþííîáò ἁßóêîðð ἁέἁ óîîἁἁð Ëἁéôîñḡḡḡḡ

3.1 Ἀέóἁḡḡḡḡ

Ç ἁḡḡḡḡ ἁíðíêþí ἁßἁέ ἰḗ ἰ ἁðéíεüðḡḡḡ ðñüððò ἁέἁ ἰḗ ððéÛíḡḡḡ ἁßóêîðð ἁðíééἁéóðééðð ḡἁéðîñḡḡḡ ἁééÛ ἁßἁέ ḡἁé ἰ ἁððéíεüðḡḡḡ ἁέἁ ἰḗ ððéÛíḡḡḡ óîîἁἁðíýð ἁßóêîðð. Õí fdisk ἁðü ðçí ἁḡḡḡḡ ἁíðíêþí èÝéἁ ḡḡḡéóóüðḡḡḡ ἁíþḡἁéð ἰḗçíἁἁéêþí ḡἁé ḡíééÝð ἁíþḡἁéð ó÷ḡðééÛ ἰḗ ðí ḡßἁἁἁ ḡñἁἁðéþí, èÛðé ḡíð ḡñîḡἁíþð ἁḗ ḡḡḡḡḡḡḡḡ ἰḗ ἰÛἁḡḡḡ. Ἀé ἁððü ÷ñçóéíðíéþḡḡḡ ðí sysinstall ἁέἁ ἰḗ ððéÛíḡḡḡ óîîἁἁðíýð ἁßóêîðð ἁéíéíðéþḡḡḡ ðéð ἰḗçḡḡḡ ḡḡḡḡḡḡḡ.

3.2 Ððð ἰḗ ððéÛíḡḡḡ ἁßóêîðð óîîἁἁððð ḡἁéôîñḡḡḡḡ ἰḗ ðí Sysinstall

1. ἰḗéíþḡḡḡ ðí sysinstall þð root ḡñÛîñḡḡḡ

```
# /stand/sysinstall
```

óðçí ḡḡḡḡḡ ἁíðíêþí.

2. ἈðééÝíðḡ Index.
3. ἈðééÝíðḡ Partition.
4. ἈðééÝíðḡ ðí ἁßóêî ðíð èÝḡḡḡ ἰḗ ἁḡἁἁἁἁḡḡḡḡ ÷ñçóéíðíéþḡḡḡ ḡḗ ἁḡḡḡḡḡ ḡἁé ἰḗðÛ **SPACE**.
5. Ἀí ḡḗ ÷ñçóéíðíéþḡḡḡ üéí ðí ἁßóêî ἁέἁ ðí FreeBSD, ἁðééÝíðḡ A.
6. ¼ḡḗí ḡḗð æçðçèḡḡ:

Do you want to do this with a true partition entry so as to remain cooperative with any future possible operating systems on the drive(s) ?

(ÈÝḡḡḡ ἰḗ ðí èÛíḡḡḡ ἁððü ἰḗ ḡñḡḡḡḡḡḡḡ èñîÛðéἁ ἁέἁ ἰḗ ḡḡḡḡḡḡḡ ḡîîἁἁðü ἰḗ Ûééἁ ḡἁéðîñḡḡḡḡ ḡḡḡḡḡḡḡ?) Ἀðḗḗþḡḡḡ Yes.

7. ἈðééÝíðḡ Write.
8. ¼ḡḗí ḡḗð æçðçèḡḡ ἰḗ ἁḡἁἁἁἁḡḡḡḡ ðí boot manager, ἁðééÝíðḡ None ἰḗ ðí **SPACE** ḡἁé ἰḗðÛ **ENTER** ἁέἁ OK.
9. Quit (ḡḡḡḡḡḡ) ἁðü ðí FDISK Editor.
10. Èἁ ḡḗð ñüðþḡἁ èÛðé ó÷ḡðééü ἰḗ ðí boot manager ḡÛéé, ἁðééÝíðḡ None ἰḗḗ.
11. ἈðééÝíðḡ Label ἁðí ðí Index menu.
12. ÌñîÛḡḡḡ ðí ἁßóêî üððð èÝḡḡḡ (ḡḗþ ḡḗ ἰñḡḡḡḡ ḡḗ partitions). Ἀí èÝḡḡḡ ἰüñ Ḣἁ partition ἁðéþð ḡḗ÷ḡḡḡḡ ḡéð ḡñḡḡðééḡḡḡ ἁέἁ ḡḗ ḡñḡḡḡḡḡḡḡḡḡ Ḣἁ size, partition type filesystem, ḡἁé mountpoint (ðí ἰðíßí ḡḗ ÷ñçóéíðíéḡḡḡḡ).
13. Õí filesystem ḡḗ ḡḡḡḡḡḡḡ ἁððüḡḡḡ ἁðü ðçí ἁíðíêþí newfs ḡéðüð ἁí ἁðééÝíðḡḡ ðí ἁíðḡḡḡḡ. Ἀí ḡÛḡḡḡḡ ḡἁéñýḡḡḡḡ partition ḡḗð óðîÝḡḡḡ ἰḗ ðí èÛíḡḡḡ! Èἁ ḡḗð ἁþḡἁḡ ðí èÛèðð:

```
Error mounting /mnt/dev/ad2s1e on /mnt/blah : No such file or directory
```

Ἀḡñþḡḡḡ ðí.

14. Ðḗðþḡḡḡ óðíḗ÷üḡḗḗ ðí **ESCAPE** ἁέἁ ἰḗ ḡḡḡḡḡḡ.

Ἰ ᾱᐑóêῖð óᾱð ᾱᐑῖᾱέ Ὠῖêῖð ðñῖð ÷ñᐑóç.

4 ¶ēēᾱò ēᾱéôῖñᾱᐑᾱò ἰᾱ ôῖð ᾱᐑóêῖð

4.1 ᐑñῖóēΨôῖῖᾱò swap.

Ἐᾱêᐑò Ὠῖᾱ óýóçῖᾱ ᾱðᾱêðᾱᐑῖᾱᾱέ, ç ᾱῖᯚᾱêç ᾱέᾱ ἰᾱᾱᾱýᾱñῖ swap ᾱᐑῖᾱᾱέ ῖêῖ ᾱέᾱ ðéῖ ᾱðéóᾱêðéêᐑ. ᐑᾱñῖêῖ ðῖð òῖ ἰᾱ ðñῖóðᾱêᾱᐑ swap óᾱ Ὠῖᾱῖ ððᯚñ ÷ῖῖᾱ ᾱᐑóêῖ ᾱᐑῖᾱ ὡññᾱñᯚ ᾱýóêῖêῖ, Ὠῖᾱð ᾱέῖῖýñᾱéῖð ᾱᐑóêῖð ἰðῖñᾱᐑ ἰᾱ ῖñῖῖðῖéçᾱᐑ Ὠóóé ᐑóðᾱ ἰᾱ ðᾱñéΨ ÷ᾱέ òῖ ᾱðéðēΨῖ swap ðῖð óᾱð ēᾱᐑðᾱέ.

Ἄέᾱ ἰᾱ ᐑñῖóēΨᾱðᾱ swap ᾱêᐑðò ᾱᯚᾱðᾱ Ὠῖᾱ ᾱᐑóêῖ óῖῖ óýóçῖᾱ:

1. Ἐᾱêᐑò ēῖᾱᾱᾱ òῖ ᾱᐑóêῖ (partitioning) ᾱêῖᯚῖᾱ òῖ disklabel ᾱέᾱ ῖñᐑóðᾱ ÷ᐑñῖ ᾱέᾱ swap óῖῖ êñῖᯚᾱ (partition) ‘b’ ᾱέᾱ ᾱᯚᾱ òῖῖ ððῖêῖðῖ ÷ᐑñῖ óᾱ êᯚᯚῖêῖ ᯚêῖ êñῖᯚᾱ, ð.÷. óῖῖ ‘a’ ᐑ óῖῖ ‘e’. Ὀῖ ἰΨᾱᾱèð ðῖð ᾱᐑῖᾱᾱ ᾱᐑῖᾱ ὡᾱ blocks òῖῖ 512 bytes.
2. Ὠóᾱῖ êᯚῖᾱᾱ newfs óῖῖ ᾱᐑóêῖ, Ἰçῖ òῖ êᯚῖᾱᾱ óῖῖ êñῖᯚᾱ ‘c’. Ἀῖðᾱᾱᾱ, êᯚῖᾱ òῖ ῖῖῖ óῖῖ êñῖᯚᾱ ðῖð ᾱᾱ ᾱᐑῖᾱ swap.
3. ᐑñῖóēΨᾱ òῖῖ /etc/fstab òῖ ðᾱñᾱêᯚᾱ:

```
/dev/ad0b                                none                swap                sw 0 0
```

Ἀêῖᯚῖᾱ òῖ /dev/ad0b óῖῖ ῖñῖᾱ òçð ᾱέῖῖýñᾱéᾱð óᾱð óðóéᾱðᐑ.

4. Ἄέᾱ ἰᾱ ᾱῖᾱñῖᯚῖᐑᾱðᾱ ᯚῖᾱᾱ òῖ ἰΨῖ swap ÷ñçóêῖῖðῖᐑᾱ òçῖ ᾱῖðῖᐑ swapon

```
# swapon /dev/da0b
swapon:  added /dev/da0b as swap space
```

4.2 Ἀῖóéᾱñᯚῖῖᾱò ὡᾱ ðᾱñéᾱ ÷ῖῖᾱῖ ᾱᐑóêῖῖ

Ἀðῖ òῖῖ: Renaud Waldura (<renaud@softway.com>)

Ἄέᾱ ἰᾱ ἰᾱðᾱéῖῖᐑᾱðᾱ ᾱñ ÷ᾱᐑᾱ ᾱðῖ òῖῖ ᾱñ ÷éêῖ óᾱð ᾱᐑóêῖ óᾱ Ὠῖᾱῖ ᾱέῖῖýñᾱéῖ, êᯚῖᾱ:

```
# mount /dev/ad2 /mnt
# pax -r -w -p e /usr/home /mnt
# umount /mnt
# rm -rf /usr/home/*
# mount /dev/ad2 /usr/home
```

4.3 ÖœéÜîôå åíùìÝíîò ãßóëîò àå ôî CCD

Áđĩ ôĩĩ: Stan Brown (<stanb@awod.com>)

Iā ōi Concatenated Disk Driver, P āēēēpō CCD, iōiñāBōā iā Y ÷ āōā ðrēēyō uirēōō āBōēōō āēē ū iā ōōiðānēōYñirōāē
 uō Yīāō. Ç āēāāēāōBā ēYŶāōāē ōōā ÷ þrāōōç (striping). Iā ōçī āðēēūēēçōç Y ÷ āōā ēāēyōāñā āðrōāēYōiāōā ōōçī
 ōā ÷ yōçōā āðāēāB ñēñŬēirōāē iē āāñāōYō ēāē iē ārāñrþōāēō ōōrōō āBōēōō. ĀēāŬōōā ōēō manual pages ccd(4) ēāē
 ccdconfig(8) P ōçī āñ ÷ ēēP ōāēBāā ōiō CCD (<http://stampede.cs.berkeley.edu/ccd/>) āēā ðāñēōōōūōāñāō ēāðōñYñāēāō.

Ā́éá íá ôñŸíâôâ CCD ðēÝíí âáí ÷ñâēŬæâôââ âéâēü ðõñÞíá. Íà ôçí áíôíēÞ ccdconfig, ôĩñôÞíâôâé ôĩ éâôŬēēçĩ
KLD áóôüíâôâ áí ĩ ðõñÞíâôâ âáí Ý÷âé Þæç ôðĩóôÞñéíç á́éá CCD.

Ôá CCD ððēŨ ÷ fīfðáē óá partitions ðŷðīð 4.2BSD. Áí ēŸēāðá íá ÷ ñçóēīðīðēPóáðá uēī ðīī āBóēī ēáē ðŨēē ðñŸðáē íá ððēŨīāðá Ÿíá ŸŸī partition. Āēá ðāñŨāēēāī, ç áfðēēP **disklabel** -e ðīñāB íá āāBīāē:

```
#          size      offset      fstype    [fsize bsize bps/cpg]
c: 60074784         0      unused          0         0         0 # (Cyl.  0 - 59597)
```

Άάρ ιδññâßôâ íá ÷ ñçôèîüðñēĐôâôâ ôï partition c άέά CCD, äöüóñí áßíáé öýðñö *unused*. Áíôßèâôâ äçíèíôñâĐôââ Ýíá íÝí
 partition äêñéâðò ßäéíò íääÝèíöð áéèÛ öýðñö 4.2BSD:

```
#          size      offset      fstype    [fsize bsize bps/cpg]
c: 60074784         0      unused         0         0         0 # (Cyl.    0 - 59597)
e: 60074784         0      4.2BSD         0         0         0 # (Cyl.    0 - 59597)
```

Ā́éá íá áçierōnāPóáôĀ Yía íYī CCD, âêôâĒYôôâ ôéô đăăăĒÛôû áíôîĒYô. ĐăăăĒĀÛôîôî đpò íá đñîróĒYôáôâ ôñăđô
 âđôêîrôđ. Áđêđô âêĒÛôôâ ôéô ôôôêăôYô uđîr ÷ñăĒÛăăôăĒ. Êôîçăđăđôâ uôê îé âđôêîĒ đñYđăĒ íá âđăăĒ *uñêrê*.

```
# cd /dev ; sh MAKEDEV ccd0

# disklabel -r -w da0 auto
# disklabel -r -w da1 auto
# disklabel -r -w da2 auto

# disklabel -e da0
ᏏᏏᏏᏏᏏᏏᏏᏏ ᏏᏏᏏᏏᏏ ᣎ ᏏᏏᏏᏏᏏ 4.2BSD
# disklabel -e da1
ᏏᏏᏏᏏᏏᏏᏏᏏ ᏏᏏᏏᏏᏏ ᣎ ᏏᏏᏏᏏᏏ 4.2BSD
# disklabel -e da2
ᏏᏏᏏᏏᏏᏏᏏᏏ ᏏᏏᏏᏏᏏ ᣎ ᏏᏏᏏᏏᏏ 4.2BSD

# ccdconfig ccd0 273 0 /dev/da0e /dev/da1e /dev/da2e

# newfs /dev/ccd0c
```

Ç ôêĤ 273 âßíáé ôĭ ĩŸääèò ôĭô stripe. Åßíáé ĩ áñéèiùò ôuĭ sectors (512 bytes ĩ êâéŸíáo) óá êÛèâ block äääñŸíuĭ ôĭô CCD. Èá ðñŸðâé íá âßíáé ôĭôÛ÷éóóĭ 128 kB, êâé äâĭ ðñŸðâé íá âßíáé äŸíâĭç ôĭô 2.

Ôpñá ìðĩñáßôâ íá êÛíáôâ mount êáé íá ÷ñcôéiĩðĩéPóáôâ ôi CCD óáo ìÝóù ôcò óóóéãPò /dev/ccd0c.

já déu aóíáôu éáé ãóÝééêôí áíáééáôéêú ôíô CCD áíáé ôí Vinum. Ðãñéóóúôãñãò ðëçñíôíñbãò óóí Vinum Project
 home page (<http://www.vinumvm.org/>).

5 Ἀð÷ᾗñéóôþᾗð

Ì óðᾗᾗᾗᾗᾗÝᾗð èᾗ þḗᾗḗ ᾗᾗ ᾗð÷ᾗñéóðþᾗḗ òíðð ðᾗᾗᾗᾗᾗᾗᾗ ᾗἑά òçí óðíᾗḗóðíñᾗᾗ òíðð óᾗ ᾗððþ òçí ᾗñᾗᾗóþᾗ òíðð:

- Darryl Okahata (<darrylo@hpnmhjw.sr.hp.com>) ᾗἑά òḗð ᾗðḗÝð ïᾗçᾗþᾗð ᾗᾗḗᾗðᾗᾗóðᾗóçð ᾗíùð ᾗþḗḗḗð óᾗ ᾗðíḗḗᾗḗóðḗḗ òñüðí ḗᾗḗðíðñᾗþᾗð, òḗð ïðíþᾗð Ý÷ù ðíḗḗÝð òíñÝð ÷ñçóḗñðíḗþᾗḗ óóçí FreeBSD-questions.
- Jordan K. Hubbard <jkh@FreeBSD.org> ðíð Ýḗᾗᾗ òí sysinstall ÷ñþḗḗḗ ᾗἑά òÝðíḗḗð ᾗþᾗḗðð ᾗḗḗᾗḗÝð.
- John Fieber (<jfieber@indiana.edu>) ðíð Ýᾗùóᾗ òḗð ðḗçñíñíñþᾗð ḗᾗḗ óᾗ ðᾗᾗᾗᾗþᾗᾗᾗᾗ ᾗἑά òí DocBook DTD ðᾗḗù óᾗᾗ ïðíþᾗ ᾗððü òí ḗᾗþᾗᾗḗ ᾗᾗóþᾗᾗᾗᾗḗ.
- Greg Lehey <grog@FreeBSD.org> ðíð Ýḗᾗᾗᾗ òçí ᾗḗḗḗᾗᾗᾗ ḗḗ, øᾗ÷ḗíóᾗð ᾗἑά ᾗíᾗḗñþᾗᾗᾗᾗð, ḗᾗḗ ᾗἑά òçí òðíóðþñḗíç òíð óᾗ ᾗḗᾗᾗᾗᾗ ḗÝᾗᾗᾗ.