

Ἀέαιũñöùόç Ἀδιέçêãðôéêπί ἸΎούι ἁέα ×ñÞόç ìà ôī FreeBSD

ἰάò óýíôīīīò ìäçãüò

Doug White

dwhite@resnet.uoregon.edu

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Ôī FreeBSD ἁβίἁé Ἰίἁ éἁôī ÷ ðñùìŸīī àìðīñéêü óýìἁīēī ôīô FreeBSD Foundation.
Ἰé ēŸīἁéò lomega, Zip, éἁé Jaz ἁβίἁé ἁβòἁ éἁôī ÷ ðñùìŸīἁ àìðīñéêü óýìἁīēἁ Þ àìðīñéêü óýìἁīēἁ ôçò
lomega Corporation óðéò ÇíùìŸīἁò Ðīēéðἁἁò Þ/éἁé óἁ Üēἁò ÷ þñἁò.
Ἰé ēŸīἁéò Motif, OSF/1, éἁé UNIX ἁβίἁé éἁôī ÷ ðñùìŸīἁ àìðīñéêü óýìἁīēἁ éἁé Ἰé ēŸīἁéò Þ ðñÜóἁéò IT
DialTone éἁé The Open Group ἁβίἁé àìðīñéêü óýìἁīēἁ ôīô The Open Group óðéò ÇíùìŸīἁò Ðīēéðἁἁò
éἁé óἁ Üēἁò ÷ þñἁò.
ÐīēéŸò ἁðü óéò ēŸīἁéò Þ ðñÜóἁéò Ἰé Ἰðīἁò ÷ ñçóéīīðīēīŸíóἁé ἁðü ôīðò éἁóἁéἁἁðἁóðŸò Þ ôīðò
ðùēçôŸò ôīðò ἁéἁ ἰἁ ἁéἁēñἁīīôī óἁ ðñīüüíóἁ ôīðò èἁùñīŸíóἁé àìðīñéêü óýìἁīēἁ. ¼ðīô ἁðòŸò
àìðἁíἁἁἁἁἁἁἁἁ éἁé ἁðòü ôī èἁἁἁἁἁἁἁἁ éἁé ἁéἁ üóἁò ἁðü ἁðòŸò ἁíùñἁἁἁἁ ḡ ἸìÜἁἁ ἈíÜðòðīçò ôīô FreeBSD üòé
ἁβίἁé ðéἁἁíüí ἰἁ ἁβίἁé àìðīñéêü óýìἁīēἁ, èἁ ἁἁἁòἁ Ἰίἁ ἁðü óἁ óýìἁīēἁ: “TM” Þ “®”.

Ôī ðἁñüí Ἰἁἁἁἁἁἁ ᰄἁἁἁἁÜóἁé ᰄᰄò ἰἁ èüᰄἁἁ ἁἁ ðīᰄἁἁἁ (slices), èñìἁἁéÜóἁἁἁ (partition) éἁé
ññòīðīēᰄἁἁἁ (format/ἁéἁìüñòüòç) óēēçñīŸò ἁᰄἁἁἁἁ éἁé ᰄἁñüíἁἁ ἰŸóἁ ᰄīô ðñññἁἁἁἁἁἁ ἁéἁ ÷ ñÞόç ìà ôī
FreeBSD. Ôἁ ᰄἁἁἁἁἁἁἁἁἁἁἁ ḁἁἁἁÜóðçἁí ἁἁἁ FreeBSD 2.2 ἁἁἁἁ ḁἁἁἁἁἁ ḁἁἁἁἁἁἁἁἁ éἁé ᰄðéò Üēἁò
ἁἁἁἁἁἁἁἁ. Ôī èἁἁἁἁἁ Ḹ ÷ ἁἁ ἁἁἁἁἁἁἁἁ ἁἁἁ ᰄçἁ Ḹἁἁἁἁ 4 ôīô FreeBSD.

1 ἈέóἁἁἁἁP éἁé Ἰñéóīīἁ

1.1 Ἀἁἁἁἁ

Ôī ἰἁ ᰄñīóēŸἁἁἁ ἁᰄἁἁἁἁ ìἁ ἁðéðò ÷ ἁἁ ἁἁ ḸðÜñ ÷ ἰἁ ᰄýóðçἁἁ ἁβίἁé ÷ ἁñἁéðçñéóðéêü ἁñüð Ḹἁἁἁñἁἁ ἁéἁ ÷ ἁἁἁἁᰄ
óðóðᰄἁἁἁ. Ôī èüᰄἁἁ, ôī èñìÜðéἁἁἁ éἁé ḡ ᰄñīóēᰄç ἁᰄἁἁ ἁðἁἁἁἁἁ éἁéἁᰄᰄἁñç ᰄñīôī ÷ Þ éἁé òüóðP óýìἁἁἁἁ ἁíðīēᰄ.
ἰἁ ᰄἁἁἁἁ èÜἁἁ ἰðīñἁἁ ἰἁ ἁἁἁἁἁἁἁ Ḹἁἁ ἁἁἁἁἁἁ ἁᰄἁἁ ἁἁ ἁἁðἁἁñüἁᰄᰄᰄἁ. Ἀðòü ôī Ḹἁἁἁἁἁ ἁñÜóðçἁἁ ùò
ðñīóðÜἁἁἁ ἰἁ ἁðἁἁἁἁἁἁ ḡ ἁἁἁἁἁἁᰄἁ éἁé ἰἁ ἁðīᰄᰄ ÷ èŸŸí ἁðò ÷ ᰄἁἁἁ. Ἀðòð ÷ þð, ἁἁἁἁᰄᰄᰄᰄ ᰄðἁñ ÷ ḁíðüí
ἁñἁἁἁἁἁἁἁ (èðñἁᰄò ôīô sysinstall), óðéò ðñüóᰄἁᰄᰄ ἁἁἁᰄᰄᰄò ôīô FreeBSD, Ḹ ÷ ἰðī ἁἁἁᰄᰄᰄᰄ ᰄçἁ ἁἁἁἁἁᰄᰄᰄ.

ÔðÜñ ÷ ἰðī ἁŸἁ ᰄἁἁἁἁἁ ᰄñüðīé (modes) ññññññççòð:

- *δοιᾶδὸρ ἑαέδοιῶνᾱβᾱ* (*compatibility mode*): Ἀέαιῦνῶουζ οἶο ἁβῶεῖο πῶδᾱ ἰά ὕ ÷ ἁέ ὕῖα δβῖᾱέᾱ οἰπῖᾱοῦῖ (slice table) ἑᾱέ ἰᾱ ἰδῖῖᾱβ ἰᾱ ÷ ἡζῶεῖῖδῖεζῶεᾱβ δᾱῖῖὕεεζῶεᾱ ἁδῖῖ ὕεεᾱ ἑᾱέοῖοῖῖᾱέεὕ ὁῶῶδβῖᾱῶᾱ.
- *ἀδῖεῖᾱέοῶεῖῖ ἑαέδοιῶνᾱβᾱ* (*dedicated mode*), ἰᾱῖῖῖὕῶ οῖῖῖὕῶ εὕῖᾱᾱῶᾱέ ἑᾱέ *ἀδῖεῖᾱέοῶεῖῖ ἀδῖεῖᾱέοῶεῖῖ ἑαέδοιῶνᾱβᾱ*: Ἀέαιῦνῶουζ ἁῖῖδ ἁβῶεῖο ÷ ὑῖῖδ δβῖᾱέᾱ partitions. Ἀῶδῖ εὕῖᾱέ ὁζῖ ἑᾱᾱᾱέᾱῶᾱ ὁζῶ δῖῖῶεᾱῶζῶ ἁβῶεῖο ἁῶεῖῖῶδᾱῖ ἁῖῖὕ ὕῖᾱ ἰζ-FreeBSD ἑᾱέδοῖῖᾱέεὕ ὀγῶῶζῖᾱ δῖῖᾱῖῖ ἰᾱ ἰζ ἰδῖῖᾱβ ἰᾱ ἁᾱέ οἰ ἁβῶεῖ. ζ ὕῖῖᾱῶζ *ἀδῖεῖᾱέοῶεῖᾱ* ἁῖᾱὕῖᾱῶᾱ ὀῶῖῖ ἑβῖᾱῶῖ ὀῖὕ ὕῶέ οἰ ὀγῶῶζῖᾱ ἰδῖῖᾱβ ἰᾱ ἰζῖ ἁῖᾱῖῖῖῖῖῖᾱέ ὕῖᾱῖ ἁβῶεῖ ἰῖῖῖῖῖῖῖῖῖῖ ὕῖῖ ἑᾱὕ ἁῶῖῖ ὀῖῖ ὀῖῖῖῖ.

[illegible]

ÐÝíá áðí ðçí áðééíáÐ ðíððíð éäéðíðíðíð ððÛí÷íðí ìÝíííéíé ððçðíðíðíð ðíð áðéíð. Ì ðíððíð ÷íçðéíðíéáð ðí
 áíáééáíí áäéáðÛððáçð ðíð ððððíðíð /stand/sysinstall. Áðí ðí 2.1.7-RELEASE éäé íäðÛ ç sysinstall
 áðéíðíéáð ðí ðððéíí ðíð áðéíðí áðáéáÐ áðéðíÝðáé ðçí áðáðéáðíð áééááÐ ððí label (ðððéíð) éäé ððá ðíðáðá
 (partitions) ðíð áðéíðí. ÁðéðéÝíí ðáð áðéðíÝðáé íá áðéçéäýðáðá ðéð áééááÝð íííí ððíð ððáéäéíéÝíí áðéí ÷íðíð
 íá áðçíáÛéáé ðíðð ððéíéðíðð. Ì áäýðáíðð ðíððíð áííáé íá áéðáéÝðáðá áéÛíðíð áíðééÝð ìá ðí ÷Ýíé áðí ðçí áíáíð
 áíðéíðí ùð root. Áí áðééÝíðáð ðçí áðíééáððééÐ éäéðíðíðíð ÷íðáéÛéáðá íá áéðáéÝðáðá íííí 2-3 áíðééÝð áíð íá ðí
 sysinstall ðíÝðáé áíðééÝðáðá ééáÛéé ðáíáðÛíð.

1.2 Īñéóìĭß

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

- [illegible]

1.3 ΟçìᾱḂᾱ ðìò ðñÝðᾱέ ιᾱ ðñìóÝìᾱðᾱ éᾱé ðᾱᾱḂᾱð

Ἀþòᾱ ιᾱᾱÛέç ðñìóι÷þ òç ᾱέᾱᾱέᾱᾱᾱ, ᾱί ᾱᾱί εÛᾱᾱᾱ ᾱᾱ ἰΎᾱ ᾱᾱ éᾱé ᾱḂᾱé εÛέìò ἰðìñᾱḂ ιᾱ éᾱᾱᾱᾱñÝḂᾱð ᾱᾱ ðᾱñéᾱ÷ḱᾱᾱᾱ Ûέεḱᾱ ᾱḂᾱéḱᾱ òìò òðᾱðḂᾱðìò.

ðñìóÝìᾱð òé εÛìᾱðᾱ. ἈḂᾱé ðñéý ᾱýéìéι ιᾱ éᾱᾱᾱᾱñÝḂᾱð εÛέìò ᾱḂᾱéḱᾱ ᾱìᾱᾱýìᾱð ιᾱ ᾱᾱóÝð òéð ᾱíᾱìéÝð. Ἀί Ύ÷ᾱðᾱ ᾱìᾱᾱᾱᾱḂᾱð ᾱéÝᾱìᾱð ᾱᾱ ἰçíýìᾱðᾱ òìò ðññḂᾱ éᾱᾱÛ òç ᾱέᾱᾱέᾱᾱᾱ ᾱéḂḂḱçóçð ᾱéᾱ ιᾱ ᾱñᾱḂᾱð òç òḱᾱᾱþ ᾱᾱᾱᾱþ ᾱḂᾱéìò.

ÒðᾱééÛ ᾱᾱί Ύ÷ᾱìᾱ éᾱḂᾱ ᾱᾱéýíç ᾱéᾱ æçìéÝð ðìò ἰðìñᾱḂ ιᾱ ðñìèççéìýí. Ç ᾱᾱéýíç ᾱḂᾱé ᾱééþ ᾱᾱð!

1.4 Zip, Jazz, éᾱé Ûééᾱ ᾱᾱᾱñìýìᾱᾱ ἰΎᾱ

Ἰé ᾱᾱᾱñìýìᾱñé ᾱḂᾱéìé ἰðìñìýí ιᾱ ᾱéᾱìñᾱḱéìýí ᾱᾱί éᾱñìéḂḂḱ ᾱḂᾱéìé. Òι Კçìᾱíᾱᾱéḱᾱ ᾱḂᾱé ιᾱ ᾱḂᾱé ᾱᾱᾱᾱᾱÝñð ἰ ḱᾱçᾱḱ òìò ᾱḂᾱéìò éᾱᾱÛ ᲙçìᾱḂḂḱçóç òìò ᲙᾱᾱᾱḂᾱðìò éᾱé ιᾱ ᾱéᾱéÝᾱ ἰΎᾱ þᾱᾱ ιᾱ ἰðìñÝᾱé ἰ ðññḂᾱð ιᾱ ᾱᾱ ᲙᾱᾱᾱÛ Კçìᾱ ᾱᾱḱᾱᾱḂᾱ òìò ᾱḂᾱéìò. ÈìéðÛìᾱð òé εÝᾱé ç ᾱíᾱìéþ dmesg ᾱéᾱ ιᾱ ᾱᾱḂᾱ ᾱί ç Კᾱᾱᾱþ ᾱḂᾱé Კᾱçì ḂḂᾱᾱ. Ἀéᾱ ðᾱñÛᾱᾱᾱᾱ ᾱί ἰ ðññḂᾱð ᾱñÛᾱé:

Can't get the size

ḱḱᾱ ᾱᾱί ᲙðÛñ÷ᾱé ᾱéᾱéÝᾱ Კᾱì ḱᾱçᾱḱ. Ἀί ᾱḂᾱé ᾱᾱḱᾱ éᾱ ðñÝðᾱé ιᾱ ᾱðᾱᾱᾱéḂḂᾱᾱ òι ἰç÷ᾱḱᾱ ðñéí ᾱìᾱḂᾱᾱᾱ ιᾱ ᾱéᾱìñᾱḂᾱð Კçìᾱ ᾱéᾱéÝᾱ.

2 ἈéᾱìñᾱḂḂḱᾱð ᾱḂᾱéìòð ᾱéᾱ ᾱðìèḂᾱᾱᾱᾱᾱþ ḂᾱᾱᾱᾱḂᾱ

2.1 Ἀéᾱᾱḱᾱþ

Ἀᾱᾱþ ç ðᾱñÛᾱñᾱᾱð ðᾱñᾱñÛᾱᾱé ðþᾱ ιᾱ ᲙᾱᾱḂᾱᾱ ᾱḂᾱéìòð ἱḱḱᾱ ᾱéᾱ òι FreeBSD. ÈᾱìçᾱḂᾱ ḱᾱᾱé ἰé ᾱḂᾱéìé ᾱðìèḂᾱᾱᾱᾱþ ḂᾱᾱᾱḂᾱᾱð ᾱᾱί ἰðìñìýí ιᾱ ᾱéᾱᾱᾱᾱᾱᾱ ᾱᾱḱᾱ Ûééᾱ ḂᾱᾱᾱḂᾱᾱᾱᾱ, ἱýᾱ ιᾱ εÛìñᾱ boot.

2.2 ðþᾱ ιᾱ ᲙᾱᾱḂᾱᾱ ᾱḂᾱéìòð ᾱðìèḂᾱᾱᾱᾱᾱþ ḂᾱᾱᾱᾱḂᾱð ιᾱ òι Sysinstall

To /stand/sysinstall, òι ðñḱᾱñᾱḱᾱ ᾱᾱᾱᾱᾱᾱᾱç òìò ᲙᾱᾱᾱḂᾱðìò, Ύ÷ᾱé ᾱðᾱᾱᾱᾱᾱ Კᾱᾱð Კᾱᾱᾱᾱᾱᾱð òìò ᾱᾱḱᾱᾱᾱð þᾱᾱ ιᾱ ᾱðḂḂḱᾱᾱ Კçìᾱ ᾱéᾱᾱᾱᾱᾱ ÷ḱñᾱᾱḱᾱ òḱᾱ ᾱḂᾱéḱᾱ éᾱé ιᾱ ᾱðᾱᾱᾱᾱ Ḃᾱḱᾱᾱᾱ ðñìᾱðÛᾱᾱᾱ. Òᾱ ðñḱᾱñÛᾱᾱᾱ fdisk éᾱé disklabel ðìò ᲙðÛñ÷ᾱᾱ Კᾱì Კᾱì sysinstall ᾱḂᾱᾱ ᾱñᾱᾱᾱḱᾱ ðᾱñᾱᾱḂᾱᾱᾱ (GUI - Graphical User Interface) éᾱé ἰᾱḂḂḱᾱ òι ἰðÝñᾱᾱᾱ òìò èìḂᾱᾱᾱ òḱᾱ ᾱḂᾱéḱᾱ. ἈḂᾱᾱ ðñìᾱᾱþð ἰ ᾱᾱḂḂᾱᾱᾱ òñḱᾱð ιᾱ éḱᾱᾱᾱ ᾱḂᾱéìòð ᾱᾱḱᾱ Კçìᾱ Ḃᾱᾱᾱç 2.1.7 éᾱé ἰᾱᾱ òìò FreeBSD.

1. ἸᾱᾱḂᾱᾱ òι sysinstall þð root ᾱñÛᾱḱᾱð

```
# /stand/sysinstall
```

Კᾱçì ᾱñᾱḱᾱ ᾱíᾱḂḂḱ.

2. ἈðḂḂÝìᾱ Index.
3. ἈðḂḂÝìᾱ Partition.
4. ἈðḂḂÝìᾱ òι ᾱḂᾱéḱᾱ ðìò εÝᾱᾱ ιᾱ ᾱᾱᾱᾱᾱᾱᾱᾱ ÷ñçᾱᾱḂḂḱᾱð Კᾱ ᾱᾱḂḂᾱ éᾱé ἰᾱᾱ **SPACE**.

5. Ἀί εά ÷ ñçóéíðìéþóáðå üëí òí äßóëí ἁέά òí FreeBSD, ἄðéëÝíðå Ἀ.
6. Ἰüëéð óáð ñòðþóáé áí üíòüð èÝéåðå íá òí èÝíáðå áððü (Do you still want to do this) ἄðáíðþóðå Yes.
7. ἈðéëÝíðå Write.
8. Ἐά óáð äåÜëåé íéá ðñíäéäíðìþçóç ó÷äðéêÜ íå ôçí äåññåðþ óå ððÜñ÷ííóá óðóðþíáðå ἄðáíðþóðå Yes.
9. Ἰüëéð óáð ñòðþóáé áí èÝéåðå íá äåéáðóðþóáðå Ýíá boot loader, ἄðéëÝíðå None ἁέά íá ἄðüýñåðå ïðíéääþðíðå äéëääþ óòí Master Boot Record. Ç äåéáðÜóðáóç áñüð boot loader ÷ ñåÜæåðåé üüí óå éáéñýñéåð äåéáðóðÜóáéð òí FreeBSD þ áí ó÷äæÜæåðå íá òíðñéåðþóáðå òí äßóëí óå èÜðñéí Üëëí íç÷Üíçá.
10. Ðáðþóðå **ENTER** óòí áíçíññüðéëü ïþñíá ðñ èÝáé “Wrote FDISK partition information out successfully”.
11. ἈðéëÝíðå Quit ἁέά íá äåäßðå áðü òí FDISK Editor éáé ïåðÜ **ESCAPE** ἁέά íá ἄðéóðñÝðåðå óòí Index menu.
12. ἈðéëÝíðå Label áðü òí Index menu.
13. ἸñÜóðå òí äßóëí óáð üðüð èÝéåðå (äåþ ïñßæåðå óå partitions). Ἀí èÝéåðå üüí Ýíá partition ðáðþóðå òí c ἁέά íá äçíéíðñåðåðå òí partition. ἸåðÜ ἄðèð äå÷äåðå ðéð ðñíäðéëñÝð ἁέá óå ðñíéäéñéóíÝíá size, partition type Filesystem, éáé mountpoint (òí ïðííí äåí ÷ ñçóéíðìéþåðå).
14. Ðáðþóðå w üüéð ðåäæèþóáðå éáé ἄðéëðñþóðå ðéð äéëääÝð ἁέá íá óñíá÷ßóðå. Òí filesystem èå ðåñåóðåß áððüíáðå áðü ôçí áñíðèþ newfs äéðüð áí ἄðéëÝíðå òí áñðèäåðí. (Ἀí äÜæåðå éáéñýññéí partition óáð óðíöÝññé íá òí èÝíáðå!). Ἐά óáð äþóáé òí èÜëèð:

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

Ἀññþóðå òí.

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

2.3 Ðüð íá ððéÜíåðå äßóëíðð ἄðñéäæéóðéèþð èåéðíðñåßåð ïÝóå áðü ôçí äñåíð áñíðèþí

ἈéðæÝóðå ðéð ðåñåÜðü áñíðèÝð áñééäæéóðþíóáð òí ad2 íå òí üññíá ôçð óðóéåððð òíð äßóëíð (ññÜððå dmesg íá äèÝññåðå áí äßíáé òüóðü).

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 | disklabel -B -R -r ad2 /dev/stdin
ἘÝëíðå üüí Ýíá partition, ïðüð ïðñíýíå íá ÷ ñçóéíðìéþóíðå òí èññÜðé 'c':
# newfs /dev/ad2c
```

Ἀí ÷ ñåÜæåðåé íá äéëÜíåðå òí disklabel ἁέá íá ÷ ñçóéíðìéþóáðå ðñéäðèÜ partitions (ἁέá ðåñÜäæåñå áí èÝéåðå swap) ðüðå èÜíå:

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 > /tmp/label
Ἀñßíðå òí disklabel ἁέá íá ðñíðéÝóáðå partitions:
# vi /tmp/label
# disklabel -B -R -r ad2 /tmp/label
äéðæÝóðå ôçí áñíðèþ newfs óðå partitions üðüð ðñÝðåé
```

Ἰ äßóëíð óáð äßíáé Ýðíéñüð ðñüð ÷ ñþóç.

3 Äéáìĩñöþííîáò äßóêîĩò ãéá óõîâáôÐ ëäéôîĩñãßá

3.1 ÁéóáñùñÞ

Ç añāñiP āfōreþi āñāēē iāf i āōēreuoāññō ññuðñō āēā íā oōēŪiāōā āñōēiñō āñēēēāōōēēPō ēāēōiññāñāō āēēŪ āñāē ēāē i āōōēreuoāññō āēā íā oōēŪiāōā oñāāōiñō āñōēiñō. Ōi fdisk āñu ñçf añāñiP āfōreþi ēŸēāē ðāñēōōūōñāñō āñōāēō iāēçñāōēēþi ēāē ðñēŸō āñōāēō ñ÷āōēēŪ iā ññi ðñāēā ēñiāōēþi, ēŪōē ðñi ðññiññō āñi ðñāēŪāōāē íā iŸēāōā. Āē āñōñ ðñçōēñññiñēñōōā ññi sysinstall āēā íā oōēŪiāōā oñāāōiñō āñōēiñō āēñēiñēññōāō ñēñ iāçāñāō ðāñāēŪōñ.

3.2 Δρò íà ööëÛîâöâ äßóëîõò óõîââöðò ääëôîõñâßàò ìà ôî Sysinstall

1. ÎâêíÐóââ ôî sysinstall þò root ãñÜöííôáò

```
# /stand/sysinstall
```

óôçí ãñáiìÐ áíôïëþí.

2. ἌδееΎιdα Index.
3. ἌδееΎιdα Partition.
4. ἌδееΎιdα οι ἄβoεί dιo εΎεαdα ία ἄἄεαdαoδPοάdα ÷ ηςoείιdιeπίoάd oά ἄἄeÜέά eάe ίαoÜ **SPACE**.
5. Ἄί eά ÷ ηςoείιdιeπίoάd üeί oίί ἄβoεί ἄeά oί FreeBSD, ἄδееΎιdα A.
6. ¼dαί oád æçdçeåß:

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)?

(ÈYēāōā īā ōī ēŬīāōā āōōū īā ðñāāīāōēēŬ ēmŬōēā āēā īā ðāñāīāBīāē ōōīāāōūō īā Ŭēēā ēāēōīōñāēēŬ ōōōōPīāōā?) ÁðāīōPōōā y_{es} .

7. **ΆδεέΎίδα** Write.
8. ¼δαί οάδ æçðçêâß íá ääëááóððóáððä öíí boot manager, άδεέΎίδα None íà öí **SPACE** êáé íåðÛ **ENTER** äéá OK.
9. Quit (ääåßðå) áðu öí FDISK Editor.
10. Èá óád ñùððóáé èÛðé ó÷åðêü íà öíí boot manager ðÛëé, άδεέΎίδα None íáfÛ.
11. ΆδεέΎίδα Label áðí öí Index menu.
12. ÍñÛóóå öí äßêëí üðüð èÝëåðå (ääð éå ïñßóåðå óå partitions). Áí èÝëåðå íüíí Ýíá partition áðêðò äå÷èåðåðå óéò ðñíäéëíÝð äéá óå ðñíèåññéóíÝíá size, partition type filesystem, êáé mountpoint (öí íðíßí äåí ÷ñçóéíðíëåßðåé).
13. Òí filesystem éå ðñåáóðåß áóðüåíåðå áðu öçí áíöíëð newfs åêüüð áí άδεέΎίδαöí öí áíóðèåöí. Áí åÛæåðå éáéñýñåí partition óád óðíöÝñåé íå öí èÛíåðå! Èå óád äðóåé öí èÛèð:

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

ÁãíîÞóôâ ôï.

14. ÐáôÞóôâ óõíá÷üìáíá ôï **ESCAPE** ãéá íá âãâðâ.

Ἰ ἁᐁóêῖð óáð ἁᐁῖᾶέ Ὡðῖêῖð ðñῖð ÷ñᐁóç.

4 ¶ëëᾶò èᾶéòῖñᾶᐁᾶò ἰᾶ òῖð ἁᐁóêῖð

4.1 ᐁñῖóèÝóῖῖóᾶò swap.

Ἐᾶêᐁ Ὡῖ ὀýóçῖᾶ ἁðᾶêðᾶᐁῖᾶᾶέ, ç ἁῖᐁᾶêç ἁέᾶ ἰᾶᾶᾶýóᾶñῖ swap ἁᐁῖᾶᾶέ ἡῖ ἕᾶέ ðῖῖ ἁðéóᾶéðéêᐁ. ᐁᾶñἡῖ ðῖð òῖ ἰᾶ ðñῖóðᾶᾶᐁ swap ὁᾶ Ὡῖᾶ ὀðᐁñ÷ῖῖᾶ ἁᐁóêῖ ἁᐁῖᾶ ὀññᾶñᐁ ἁýóêῖῖ, Ὡῖᾶ ἕᾶéῖýñᾶῖð ἁᐁóêῖð ἰðῖñᾶ ἰᾶ ἱñòῖðῖéçᾶᐁ Ὡðé ᐁóðᾶ ἰᾶ ðᾶñéÝ÷ᾶέ òῖ ἁðéðῖÝῖ swap ðῖð óᾶð èᾶᐁðᾶέ.

Ἄέᾶ ἰᾶ ᐁñῖóèÝóᾶðᾶ swap ἕᾶêᐁ ἁᐁᾶðᾶ Ὡῖ ἁᐁóêῖ òῖῖ ὀýóçῖᾶ:

1. Ἐᾶêᐁ èἡᾶᾶðᾶ òῖ ἁᐁóêῖ (partitioning) ἁῖῖᐁῖᾶ òῖ disklabel ἕᾶέ ἱñᐁóðᾶ ÷ᐁñῖ ἁέᾶ swap òῖῖ èñῖᐁðé (partition) ‘b’ ἕᾶέ ἁᐁῖðᾶ òῖῖ ὀðἡῖῖῖðῖ ÷ᐁñῖ ὁᾶ èᐁðῖῖῖ ᐁῖῖ èñῖᐁðé, ð.÷. òῖῖ ‘a’ ᐁ òῖῖ ‘e’. Ὀῖ ἰÝᾶᾶῖð ðῖð ἁᐁῖᾶðᾶ ἁᐁῖᾶ ὁᾶ blocks òῖῖ 512 bytes.
2. ᐁðᾶῖ èᐁῖᾶðᾶ newfs òῖῖ ἁᐁóêῖ, Ἰçῖ òῖ èᐁῖᾶðᾶ òῖῖ èñῖᐁðé ‘c’. Ἀῖðᾶᾶðᾶ, èᐁῖᾶðᾶ òῖ ἡἡῖ òῖῖ èñῖᐁðé ðῖð ἁᾶῖ ἁᐁῖᾶ swap.
3. ᐁñῖóèÝóðᾶ òῖῖ /etc/fstab òῖ ᰁᾶᾶᾶᐁᐁᐁ:

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

Ἀῖῖᐁῖᾶ òῖ /dev/ad0b òῖῖ ἡῖῖᾶ òçð ἕᾶéῖýñᾶῖᾶð óᾶð òðóéᾶðᐁ.

4. Ἄέᾶ ἰᾶ ἁῖᾶñᾶῖðῖᾶᐁᾶ ᐁῖᾶðᾶ òῖ ἰÝῖ swap ÷ñçóéῖῖðῖᾶᐁᾶ òçῖ ἁῖðῖᾶᐁ swapon

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

4.2 Ἀῖðéᾶñᐁῖῖῖᾶð ὁᾶ ᰁᾶñéᾶ÷ᐁῖᾶῖ ἁᐁóêῖῖ

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

Ἄέᾶ ἰᾶ ἰᾶðᾶῖῖᾶᐁᾶ ἁñ÷ᾶᐁ ἁðἡ òῖῖ ἁñ÷éἡ ὁᾶð ἁᐁóêῖ ὁᾶ Ὡῖᾶ ἕᾶéῖýñᾶῖῖ, èᐁῖᾶðᾶ:

```
# 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 ÖöéÛîôå åíùìÝíĩòò äßóêĩõò àå ôĩ CCD

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

Ià òi Concatenated Disk Driver, Ð àèèèþò CCD, ìðññàðòá íá Ý÷-àòà ðreerýò uùieréòð àðóèrèð àèèÛ íá òòìðàñèòÝñííòáé uò Ýíàð. Ç àéááééàðá éÝÑàðáé òðá÷þíàðóç (striping). Ià òçì àðèèèèèçòç Ý÷-àòà éáéýòàñá àðìðàéÝòíàðá òðçì òá÷-ýòçòá àðàèäÞ ïèñÛÑèíðáé íé ààñàñòÝð éáé íé áíááñþòáéð òòìðð àðóèrèð. ÁéááÛòòá òéð manual pages ccd(4) éáé ccdconfig(8) Ð òçì áñ÷èèÞ òàèðáá òìò CCD (<http://stampede.cs.berkeley.edu/ccd/>) áéá ðàñéóòíðàñàð èððòñÝñáéàð.

Ἀέα ία ὀñŸíāōā CCD ḑēŸíí āāí ÷ ñāēŸēāōōāā āēāēēū ḑōñŸíā. ĩā ḡçí āíōīēŸ ccdconfig, öññōŸíāōāē öí ēāōŸēēçēī
 KLD āōōūīāōā āí ī ḑōñŸíāḑ āāí Ÿ ÷ āē Ÿāç ḑḑíōōŸñēíç āēā CCD.

Όά CCD όόεŨ÷ññόάε όά partitions όýđř 4.2BSD. Άí εŸεάόά íá ÷ñçόέíñđíéPόάόά üēř όñř äßóēř έάé đŨēē đñŸđάé íá όόéŨíñάόά Ÿíá íŸí partition. Άέά đánŨüάέäíá, ç ářđřēP **disklabel** -e đřññäß íá ääßíáé:

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

Äär iðriñaðöa ía ÷ ñçöéúðriëÐaðöa öi partition c áéa CCD, äöüüíí áðíáé öýðíö *unused*. Áíððèäöä äçìèröñāÐööä Ýíá íÝí partition áéñéäðð Ðæíró iāāÝèíöð äèÛ öýðrö 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)
```

Ἄεά ἱά ἀγέρεῖτῶνάΠοάοᾶ Ἰά ἱά CCD, ἀεοᾶἔΥοᾶ ὀεῶ δᾶῖᾶἔἘῶ ἱόρεΥῶ. ΔᾶῖᾶἔἘῶ ὅρῶ ἱά δῖῖῶἔΥοᾶ ὀᾶᾶᾶ ἁᾶῶῖῶ. Ἀδῖῶ ἁῖἔἘῶ ὀεῶ ὀῶῶἔἔἔἔἔἔ ὑῶῖ ḡᾶἔἘᾶᾶᾶ. ἔῶῖῖᾶᾶ ὑῶ ἱῖ ἁᾶῶῖῖ ὀᾶἔἔ ἱά ἁᾶῖᾶ *uivēre*.

```
# cd /dev ; sh MAKEDEV ccd0

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

# disklabel -e da0
ᐃᑦᑎᑦᐱᑦᐱᑦᐱᑦ ᐃᑦᐱᑦᐱᑦ 4.2BSD
# disklabel -e da1
ᐃᑦᑎᑦᐱᑦᐱᑦᐱᑦ ᐃᑦᐱᑦᐱᑦ 4.2BSD
# disklabel -e da2
ᐃᑦᑎᑦᐱᑦᐱᑦᐱᑦ ᐃᑦᐱᑦᐱᑦ 4.2BSD

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

# newfs /dev/ccd0c
```

Ç öειΡ 273 αβίαε öι Υΰααεò öιο stripe. Άβίαε ι ανέειυò öουρ sectors (512 bytes ι έαεΥΰαò) óα εÜεα block ααανΥΰυρ öιο CCD. Έα öηΥðαε ία αβίαε öιοεÜ÷έóöιρ 128 kB. έαε ααρ öηΥðαε ία αβίαε άΰιαε öιο 2.

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

ἵά θεῦ ἀοῖάου ἐάε ἀὺΐέέοι ἀῖαέεάέοέου ὀο CCD ἀῖῖάέ οἱ Vinum. Δᾶῖέοούοᾶῖᾶ ὁέῖῖῖῖῖᾶ ὀοῖ Vinum Project home page (<http://www.vinumvm.org/>).

