

- *δοιᾶδὸρ ἑαέδοιῶνᾱβᾱ* (*compatibility mode*): Ἀέαιῦνῶουϛ οἶῶ Ἀβῶεῖῶ ἡδὸᾶ ἰᾶ ὕ ÷ ἁέ ὕἰᾶ ὀβῖᾶέᾶ ὀἰπῖᾶοῦἰ (slice table) ἑᾶέ ἰᾶ ἰδῖῖᾶβ ἰᾶ ÷ ἡϙέῖῖῖῖῖῖῖῖῖῖ ὀᾶῖῖῖῖῖῖῖῖῖ ὕῖῖῖ ὕῖῖᾶ ἑᾶέοἰῶῖῖᾶέῖῖ ὀδῶδῶπῖᾶῶᾶ.
- *ἀδῖῖῖῖῖῖῖῖῖ ἑᾶέδοιῶνᾱβᾱ* (*dedicated mode*), ἰᾶῖῖῖῖῖ ὀῖῖῖῖ ὕῖῖᾶῶᾶ ἑᾶέ *ἀδῖῖῖῖῖῖῖῖῖ ἑᾶέδοἰῶῖῖῖῖῖῖῖῖῖ*: Ἀέαιῦνῶουϛ ἁῖῖῖ Ἀβῶεῖῶ ÷ ὑῖῖῖ ὀβῖᾶέᾶ partitions. Ἀδῶῖ ὕῖῖᾶ ὀϙῖ ἑᾶᾶᾶᾶᾶᾶᾶ ὀϙῖ ὀῖῖῖῖῖῖῖ Ἀβῶεῖῶ Ἀδῖῖῖῖῖῖῖῖῖ ἁῖῖῖ ὕἰᾶ ἰϙ-FreeBSD ἑᾶέδοἰῖᾶῖῖῖ ὀῖῖῖῖῖ ὀῖῖᾶῖῖῖ ἰᾶ ἰϙ ἰδῖῖᾶβ ἰᾶ ἁᾶ ὀἰ Ἀβῶεῖ. ϙ ὕῖῖᾶῶᾶ *ἀδῖῖῖῖῖῖῖῖῖ* ἁῖᾶὀῖᾶῖᾶῖ ὀῖῖῖ ἑβῖᾶὀῖ ὀῖῖ ὕῖῖ ὀἰ ὀῖῖῖῖῖῖ ἰδῖῖᾶβ ἰᾶ ἰϙῖ ἁῖᾶῖῖῖῖῖῖ ὕἰᾶῖ Ἀβῶεῖ ἰῖῖῖῖῖῖῖῖῖ ὕἰᾶ ἑᾶὀ ἁὀῖῖ ὀἰῖ ὀῖῖῖῖ.

Όσοδο διαπερνούμενο διαπερφορέο ε αδιεξεάοοοεΠ εάεοιοπαβ άβιάε ι αοερευοάνιο οηυοιο ιά οόεαβ εάε ιά ÷ ηςοοίηοιεεαβ οά οδΰñ ÷ ιιοά οοοοΠιαόά, αουοί Υίαό εάεήγναειο αβοειο οοΠευο οηηηβεάοάε ιυή αεά οι FreeBSD. Δάνυει οιο ε οοιζαόΠ εάεοιοπαβ αεάοοαεβεαε ιΥάεοόε αεάεάεοιοηάεευοόά (interoperability) ιά ιαεήιοέεΥο ααεάοοόΰοάεο, άβιάε οει ορευοειεε.

ÐÝíá áðí ðçí áðééíáÐ ðíððíð éáéðíðíðíð ððÛí÷íðí ìÝííéíé ððçðíðíðíð ðíð áðéíð. Ì ðíððíð ÷íçðéíðíéáð ðí
 áíáééáíí ááéáðÛððáçð ðíð ððððíðíð /stand/sysinstall. Áðí ðí 2.1.7-RELEASE éáé íáðÛ ç sysinstall
 áðéíðíéáð ðí ðððéíð ðíð áðéíð áðáéáÐ áðéðíÝðáé ðçí áðáðéáðíð áééááÐ ððí label (ðððéíð) éáé ððá ðíðáðá
 (partitions) ðíð áðéíð. ÁðéðéÝíð óáð áðéðíÝðáé íá áðéçéçáÝðáðá ðéð áééááÝð íííí ððíð ððáéáðéíéÝíð áðéíð ÷íðíðð
 íá áðçíáÛéáé ðíðð ððéíéðíðð. Ì ááÝðáíðð ðíððíð áíáíé íá áéðáéÝðáðá áéÛíðíð áíðééÝð ìá ðí ÷Ýíé áðí ðçí áíáíð
 áíðéíð ùð root. Áí áðééÝíðáð ðçí áðíééáððééÐ éáéðíðíðíð ÷íðéáÛéáðíð íá áéðáéÝðáðá íííí 2-3 áíðééÝð áíð ìá ðí
 sysinstall ðíÝðáé áíðééÝðáðá ééáÛéé ðáíáðÛíð.

1.2 Ĩnéóìïß

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

- **οἰαῖαδὸρ** (compatibility mode): ς ἀεῖαῦνὸυός οἷο ἀβόειο πὸὰ ἰά ὕ ÷ ἄε ὕἰα ὀβῖᾱέα οἰπῖαδού (slice table) ἑᾱέ ἰᾱ ἰδῖνᾱβ ἰᾱ ÷ ἡςοείῖδῖεςᾱβ ὀᾱνῦεεςᾱ ἰᾱ ὕεᾱ ἑᾱέοἰῡᾱέεῦ ὀοόοπῖᾱόᾱ. Ἀῖοβᾱοῖ ὀςο ἀδῖεᾱέοόεεῖο ἑᾱέοἰῡᾱᾱό.
- (**ᾱῖεεβῖᾱοῖᾱ**) ἀδῖεᾱέοόεεῖο ἑᾱέοἰῡᾱᾱᾱ: ς ἀεῖαῦνὸυός οἷο ἀβόειο ἑᾱόῦ ὀὕοῖεῖ ὡνῦδῖ πὸὰ ἰᾱ ἰςῖ ὀᾱῖὕ ÷ ἄε ὀβῖᾱέα ὀῖῖῦῖοῖ (slice table). Ἀβῖᾱέ ὀεῖ ἄγῖεῖς ἑᾱᾱἑᾱόβᾱ ἄεεῦ ἰ ἀβόειο ἰδῖνᾱβ ἰᾱ ἰς ἄῖεᾱᾱᾱ ὀᾱ ἰς-FreeBSD ἑᾱέοἰῡᾱᾱέεῦ ὀοόοπῖᾱόᾱ. Ἀῖοβᾱοῖ ὀςο οἰᾱᾱόορ ἑᾱέοἰῡᾱᾱό.
- **ἀβόειο**: Ἰε ὀεεςῡἡβ ἀβόειε, ὀᾱ CDROM, ἰε ἰᾱῖςῖοῖ-ἰδῖεὕ ὀοόἑᾱόὕ ἑᾱέ ὀᾱ ᾱὀᾱῖῡἰᾱῖᾱ ἰὕὀᾱ Zip®/Jaz® Ἀβῖᾱέ ἰᾱῖεὕ ᾱδῦ ὀεό ὀοόἑᾱόὕ ἰᾱᾱἑῖο ἀδῖεῖᾱᾱόος ᾱᾱᾱὕῖῡ ὀῖο ÷ ἡςοείῖδῖεῖῖὀᾱ ὀπῖᾱᾱ. ς ᾱὀἑῖο ᾱῡ ÷ \mathbf{P} ἑᾱέοἰῡᾱᾱό ἀὀῖ ὀῡῖ ἰὕὀῡῖ ἀδῖεῖᾱᾱόος ὕἰᾱ ᐅ ὀᾱῖὀὀὀᾱῡᾱῖ ἀβόειε ἰε ἰὀἡῖῖ ὀᾱῖὀὀὕὕὕὕὕὕ ᾱδῦ ὕἰᾱ ἡὀὕῡ, ἄἡ ἰᾱ ἑᾱὀᾱῖ ἑῖᾱὀᾱῖ ὀᾱ ὕἰᾱ ἡῡὕὀᾱ ὀῦ ὀςῖ ἑὀἡῖ ὀῖο Ἀβόῖᾱ ὀῖο ἀβόειο ἑᾱέ ἑᾱᾱᯘᾱᾱ ᾱδῦ ὀῖ ἀβόῖῖ \mathbf{P} ᾱῡᯘᾱᾱ ᾱᾱᾱὕὕᾱ ὀᾱ ᾱὀὀῡῖ. Ὀῖ ᾱῡᯘῖῖ Ἀβῖᾱὀᾱῖ ἰᾱ ἰᾱὀᾱῖῖ \mathbf{P} εᯘᯘῖῖ ὀὀὀἑῖῖ ÷ ᾱᾱᾱᯘᯘᯘᯘᯘᯘᯘᯘᯘ ὀῖο ἀβόειο (ἰᾱῖςᯘᯘᯘᯘ ἡῡᐅ, ἑᯘᯘ.) ἄἡ ὀῖ ἑᯘᯘᯘᯘᯘ Ἀβῖᾱὀᾱῖ ἰᾱ “ἰᾱᯘ-ἰᾱᯘ” ἑᯘᯘᯘᯘ ὀςῖ βᾱᾱ ὀὀᯘᯘᯘ ἑᯘᯘᯘᯘ ὀῖο ἀβόειο.
- **οἰπῖᾱ (slice)**: Ἰβᾱ ὀδῖᾱἑᾱβᾱᯘ ἰᾱᯘ ἀβόειο. Ὀῖᯘᯘᯘ ἰᾱ ὀᾱ ὡῡᯘᯘᯘ ὀῡῖ PC ἰᯘᯘᯘᯘ ἰᾱ ὀᯘᯘᯘ-ἰᯘᯘ ἰὕ ÷ ἡᯘ 4 οἰπῖᾱὀᾱ ὀᾱ ὕἰᾱ ἀβόῖ. Ὀᾱ οἰπῖᾱὀᾱ ἀᯘᯘᯘᯘᯘᯘ Ἀᯘ ὀᯘᯘᯘ-ᯘᯘᯘᯘ ὡᯘᯘᯘ (sectors). Ὀᯘᯘᯘ-ᾱᯘ ὕἰᾱ “ὀβῖᾱἑᾱ ὀῖᯘᯘᯘᯘ” (slice table) ὀῖο ὀᾱῖὕ ÷ ἄε ὀεςᯘᯘᯘᯘᯘ Ἀᯘ ὀᾱ οἰπῖᾱὀᾱ ἑᾱέ ÷ ἡςοείῖδῖᾱᯘᯘᯘ ᾱδῦ οἰ BIOS Ἀᯘ ἰᾱ ᾱᯘᯘ ᾱδῦ ὀῖᯘ ἰδῖνᾱβ ἰᾱ ἰᾱἑῖᯘᯘ ὀῖ ὀᯘᯘᯘᯘ. Ἰ ὀβῖᾱἑᾱ ὀῖᯘᯘᯘᯘ εᯘᯘᯘᯘ ἑᾱέ “ὀβῖᾱἑᾱ ἑᯘᯘᯘᯘᯘ” (partition table) ὀᾱ ἡᯘᯘᯘᯘ DOS ὀῖο ὀᯘᯘᯘ-ἰᯘᯘᯘ Ἀᯘ ὀῖ ὡᯘᯘᯘᯘᯘ fdisk.
- **ἑᯘᯘᯘᯘ (partition)**: Ἰβᾱ ὀδῖᾱἑᾱβᾱᯘ ἰᾱᯘ οἰπῖᾱᯘᯘ. Ὀᯘᯘᯘᯘ ÷ ἡςοείῖδῖᾱᯘᯘ Ἀᯘ ἰᯘᯘᯘᯘ ὀᯘᯘ ὀδῖᾱἑᾱᯘᯘᯘ ὀᯘᯘ ὀῖᯘᯘᯘᯘ (slices) ὀῖο ἀβόειο ὀᯘᯘ FreeBSD. Ἐᯘᯘ ὀᯘᯘᯘᯘ ᾱᯘ-Ἀᯘᯘᯘ (filesystem) \mathbf{P} ᾱᯘᯘᯘᯘᯘᯘᯘ ἰᯘᯘᯘ (swap area) ὀᯘᯘ ἀβόῖ ᾱᯘᯘᯘᯘᯘ ὀᾱ ὕἰᾱ ἑᯘᯘᯘᯘ. Ὀᾱ ἑᯘᯘᯘᯘ ὀᯘᯘᯘ-ἡᯘᯘᯘ ἰᾱ ὀῖ ᾱᯘᯘᯘᯘᯘ disklabel.
- **ὡᯘᯘᯘᯘ (sector)**: ς ἰᯘᯘᯘᯘᯘ ὀδῖᾱἑᾱβᾱᯘ ἰᾱᯘ ἀβόειο. Ὀᯘᯘᯘᯘ ὕ ÷ ἄε ἰὕᯘᯘᯘ 512 bytes.

1.3 Οçἰᾶßᾶ ðῖò ðñÝðᾶέ ἰᾶ ðñῖóÝἰᾶðᾶ ἑᾶέ ðᾶᾱßᾶð

ἈÞðᾶ ἰᾶᾱÛεç ðñῖóῖ÷Þ òç Ἀέᾶἑἑᾶóßᾶ, ἰᾶ ᾶᾱῖ εÛᾶᾶðᾶ ðᾶ ἰÝðᾶ ὁᾶð ἑᾶέ ᾱßἰᾶε εÛεῖð ἰðῖñᾱß ἰᾶ ἑᾶᾶóðñÝðᾶð ὁᾶ ðᾶñéᾶ÷ῖᾱἰᾶ ὤεεῖῖ ᾱßóεῖῖ ðῖò òðóðÞἰᾶðῖð.

ðñῖóÝἰᾶð òé εÛἰᾶðᾶ. Ἀßἰᾶε ðῖεý ἰᾶεῖῖῖ ἰᾶ ἑᾶᾶóðñÝðᾶð εÛεῖð ᾱßóεῖ ᾱῖðéᾱýῖῖðᾶ ἰᾶ ᾶðÝð ðéð ἰᾶῖðῖεÝð. Ἀῖ ὤ÷ᾶðᾶ ᾱῖðéᾱῖḂᾶð ᾱéÝᾱῖðᾶ ὁᾶ ἰçῖýἰᾶðᾶ ðῖò ððñÞἰᾶ ἑᾶðÛ òç Ἀέᾶἑἑᾶóßᾶ ᾱéḂßῖçóçð ᾱéᾶ ἰᾶ ᾱñᾱßᾶð ὁç òḡóðÞ òðóéᾶðÞ ᾱßóεῖð.

ὈðóééÛ ᾶᾱῖ ὤ÷ῖᾱᾶ ἑᾶἰßᾶ ᾱðéýῖç ᾱéᾶ æçῖéÝð ðῖò ἰðῖñᾱß ἰᾶ ðñῖεççεῖῖῖ. Ç ᾱðéýῖç ᾱßἰᾶε ᾱééÞ ὁᾶð!

1.4 Zip, Jazz, ἑᾶέ Ûééᾶ ᾶðᾶéñῖῖἰᾶἰᾶ ἰÝóᾶ

Ἰé ᾶðᾶéñῖῖᾱñῖ ᾱßóεῖῖ ἰðῖñῖῖ ἰᾶ Ἀεᾶἰñöùεῖῖῖ ὁᾶῖ ἑᾶñῖéῖḂ ᾱßóεῖῖ. Ὀῖ òçἰᾶῖðééḡ ᾱßἰᾶε ἰᾶ ᾱßἰᾶε ὁῖᾶᾱἰÝñð ἰ ῖᾶçᾱḡ ðῖò ᾱßóεῖð ἑᾶðÛ òçῖ ᾱéḂßῖçóç ðῖò òðóðÞἰᾶðῖð ἑᾶέ ἰᾶ ἈεóéÝðᾶ ἰÝóᾶ þðᾶ ἰᾶ ἰðῖñÝóᾶé ἰ ððñÞἰᾶð ἰᾶ ᾱᾱß òḡóðÛ òçῖ ᾱᾱḡἰᾶðñᾶ ðῖò ᾱßóεῖð. ἘῖéðÛἰᾶð ðé εÝᾶé ç ἰᾶῖðῖεÞ dmesg ᾱéᾶ ἰᾶ ᾱᾱßᾶ ἰᾶ ç òðóéᾶðÞ ᾱßἰᾶε òçῖ εßóðᾶ. Ἀέᾶ ðᾶñÛᾶἑᾶἰᾶ ἰᾶ ἰ ððñÞἰᾶð ᾱñÛðᾶé:

Can't get the size

òḡᾶ ᾶᾱῖ òðÛñ÷ᾶé ἈεóéÝðᾶ ὁῖῖ ῖᾶçᾱḡ. Ἀῖ ᾱßἰᾶε ᾶðḡḡ ἑᾶ ðñÝðᾶé ἰᾶ ᾶðἰᾶéééῖÞðᾶðᾶ òῖ ἰç÷ ὤῖçἰᾶ ðñéῖ ᾱῖéçἰÛóᾶðᾶ ἰᾶ Ἀεᾶἰñöùðᾶðᾶ òçῖ ἈεóéÝðᾶ.

2 Ἀεᾶἰñöùðῖῖἰᾶðᾶ ᾱßóéῖðð ᾱéᾶ ᾶðῖéḂᾶéóðééÞ éᾶéðῖðñᾶßᾶ

2.1 ἈéóᾶᾱḡᾱÞ

ἈððÞ ç ðᾶñÛᾶñᾶðῖð ðᾶñéᾶñÛóᾶé ðÞð ἰᾶ òðéÛἰᾶðᾶ ᾱßóéῖðð ἰḡῖñ ᾱéᾶ òῖ FreeBSD. Ἐðῖççᾶßᾶðᾶ ḡðé ἰé ᾱßóéῖῖ ᾶðῖéḂᾶéóðééÞð éᾶéðῖðñᾶßᾶð ᾶᾱῖ ἰðῖñῖῖ ἰᾶ Ἀεᾶᾶᾶóðῖῖῖ ᾶðḡ ὤéᾶ éᾶéðῖðñᾶééÛ, ῖýðᾶ ἰᾶ εÛῖñῖῖ boot.

2.2 ðÞð ἰᾶ òðéÛἰᾶðᾶ ᾱßóéῖðð ᾶðῖéḂᾶéóðééÞð éᾶéðῖðñᾶßᾶð ἰᾶ òῖ Sysinstall

To /stand/sysinstall, òῖ ðñḡᾶñᾶἰᾶ ᾱᾶἑᾶðÛóðᾶçð ðῖò òðóðÞἰᾶðῖð, ὤ÷ᾶé ᾶðᾶéðᾶἑᾱß òðéð ðᾶἑᾶððᾶßᾶð ðῖò ᾱἑᾱḡᾶéð þðᾶ ἰᾶ ᾶðῖῖðῖᾶß òçῖ Ἀεᾶἑἑᾶóßᾶ ÷ḡñéóῖῖῖ ðḡῖ ᾱßóεῖῖ ἑᾶέ ἰᾶ ᾶðᾶéðᾶß éἑᾱḡðᾶñç ðñῖððÛéᾶᾶ. Ὀᾶ ðñῖᾶñÛἰᾶᾶᾶ fdisk ἑᾶé disklabel ðῖò òðÛñ÷ῖῖ ὁῖῖ sysinstall ᾱßἰᾶε ᾱñᾶðééῖῖ ðᾶñéᾶÛεῖῖðῖð (GUI - Graphical User Interface) ἑᾶé ἰᾶἑÞῖῖῖ òῖ ἰðÝñᾶἰᾶ ðῖò εῖðßἰᾶðῖð ðḡῖ ᾱßóεῖῖ. Ἀßἰᾶε ðñῖðᾶῖÞð ἰ ᾶðéῖεḡðᾶñῖð ðñḡðῖð ἰᾶ éḡðᾶðᾶ ᾱßóéῖðð ᾶðḡ òçῖ ὤéᾶῖðç 2.1.7 ἑᾶé ἰᾶðÛ ðῖò FreeBSD.

1. ἸᾶἑῖῖÞðᾶ òῖ sysinstall þð root ᾱñÛῖῖῖðᾶð

```
# /stand/sysinstall
```

òçῖ ᾱñᾶἰÞ ἰᾶῖðῖῖ.

2. ἈðééÝἰðᾶ Index.
3. ἈðééÝἰðᾶ Partition.
4. ἈðééÝἰðᾶ òῖ ᾱßóεῖ ᰚῖò εÝéᾶðᾶ ἰᾶ ᾱᾶἑᾶðᾶóðÞðᾶðᾶ ÷ñçóéῖḡðῖῖῖðᾶð ðᾶ ᾱᾶéÛéᾶ ἑᾶé ἰᾶðÛ **SPACE**.

5. Ἀί εά ÷ ñçóéíðìéþóáðå üëí òí äßóëí ἁέά òí FreeBSD, ἄðéëÝíðå Ἀ.
6. Ἰüëéð óáð ñòðþóåé áí üíòüð èÝéåðå íå òí èÝíåðå áððü (Do you still want to do this) ἄðáíðþóåé Yes.
7. ἈðéëÝíðå Write.
8. Ἐå óáð äåÜëåé íéå ðñíåäüðìþçόç ó÷-äðéëÜ íå ôçí äåññåðþ óå ððÜñ÷ííóå óðóðþíåðå ἄðáíðþóåé Yes.
9. Ἰüëéð óáð ñòðþóåé áí èÝéåðå íå äåéåðåððóáðå Ýíå boot loader, ἄðéëÝíðå None ἁέå íå ἄðüýñåðå ððéååþðìå äééåþ þòí Master Boot Record. Ç äåéåðÜóðåóç áñüð boot loader ÷ ñåÜæåðåé üüí óå éåéñýñéåð äåéåðåððóáðå òí FreeBSD þ áí ó÷-äåÜæåðåé íå òððéåðþóáðå òí äßóëí óå èÜðìéí Üëëí íç÷Üíçå.
10. Ðåðþóåé **ENTER** óðí áíçíññüðéëü ððíåé ððé "Wrote FDISK partition information out successfully".
11. ἈðéëÝíðå Quit ἁέå íå äååßðå ἄðü òí FDISK Editor éåé íåðÜ **ESCAPE** ἁέå íå ἄðéóðñÝðåðå óðí Index menu.
12. ἈðéëÝíðå Label ἄðü òí Index menu.
13. ἸñÜóðå òí äßóëí óáð üðüð èÝéåðå (äåþ ðñþæåðå óå partitions). Ἀí èÝéåðå üüí Ýíå partition ðåðþóåé òí c ἁέå íå äçíçíðñåðåðå òí partition. ἸåðÜ ἄðèðð äå÷-èåßðå ðéð ðñíåðéçíåÝð ἁέå óå ðñíåæéñéóíÝíå size, partition type Filesystem, éåé mountpoint (òí ððíþí äåí ÷ ñçóéíðìéþåðåé).
14. Ðåðþóåé w üüëéð ðåæåðóáðå éåé ἄðéëðñþóåé ðéð äééåñÝð ἁέå íå óðíå÷-ßóåðå. Òí filesystem èå ðåñåóðåß áððüíåðå ἄðü ôçí áíðìéþ newfs äéðüð áí ἄðéëÝíðå òí áíðßèåðí. (Ἀí äÜæåðå éåéñýññåéí partition óáð óðüöÝññåé íå òí èÝíåðå!). Ἐå óáð äþóåé òí èÜëèð:

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

Ἀññþóåé òí.

15. Ðåðþóåé óðíå÷-üíåíå òí **ESCAPE** ἁέå íå äååßðå.

2.3 Ðüð íå ððéÜíåðå äßóëíðð ἄðìéëæéóðéèþð èåéðíðñåßåð ðÝóå ἄðü ôçí äñåíðþ áíðìéþí

ἈéðåéÝóðå ðéð ðåñåéÜðü áíðìéÝð áíðééæéóððíóåð òí ad2 íå òí üññå ôçð óðóéåððð òíð äßóëíð (ññÜððå dmesg íå äéÝññåðå áí äßíåé òüóðü).

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 | disklabel -B -R -r ad2 /dev/stdin
ἘÝçíðå üüí Ýíå partition, ððüð ððñíýñå íå ÷ ñçóéíðìéþóíå òí èññÜðé 'c':
# newfs /dev/ad2c
```

Ἀí ÷ ñåÜæåðåé íå äéëÜíåðå òí disklabel ἁέå íå ÷ ñçóéíðìéþóåðå ððéåððÜ partitions (ἁέå ðåñÜäåéñå áí èÝéåðå swap) ðüðå èÜíå:

```
# dd if=/dev/zero of=/dev/ad2 count=2
# disklabel /dev/ad2 > /tmp/label
Ἀñþíðå òí disklabel ἁέå íå ðñíðéÝóåðå partitions:
# vi /tmp/label
# disklabel -B -R -r ad2 /tmp/label
äéðåéÝóðå ôçí áíðìéþ newfs óðå partitions üðüð ðñÝðåé
```

Ἰ äßóëíð óáð äßíåé Ýðìéñüð ðñüð ÷ ñþόç.

3 Äéáìĩñöþííîáò äßóêîĩò ãéá óõîâáôÐ ëäéôîĩñãßá

3.1 ÁéóáñùñÐ

Ç añāñiP āřōrePř āřīāē īāř ī āōēreuoāñrō ãñuðrō āēā řā oōēŪīāōā āßōēřōð āřīēēāēōōēēPð ēāēōřōñāßāð āēēŪ āßīāē ēāē ī āōōēreuoāñrō āēā řā oōēŪīāōā oōīāāōřōy āßōēřōð. Ōř fdisk āðu oçř añāñiP āřōrePř ēŸēāē ðāñēōōūōñāñā āřōāēð īāēçīāōēēř ēāē ðřēēŸ āřōāēð ò÷āōēēŪ īā ōřř ðßīāēā ēñīāōēř, ēŪōē ðřō ðñřōāřō āāř ÷ñāēŪāōāē řā īŪēāōā. Āē āðōū ÷ñçōēřīðřīēPōōā ōř sysinstall āēā řā oōēŪīāōā oōīāāōřōy āßōēřōð āēřīēōēřīāð ðēð řāçāßāð ðāñāēŪōū.

3.2 Δρò íà ööëÛîâöâ äßóëîõò óõîááôρò ääëôîõñãßáo à öî Sysinstall

1. ÎâêíÐóâ ôï sysinstall þò root ãñÜöííôáò

```
# /stand/sysinstall
```

óôçí ãñáììÐ áíôïëþí.

2. Ἀδελφὸς Ἰωάννης Index.
3. Ἀδελφὸς Ἰωάννης Partition.
4. Ἀδελφὸς Ἰωάννης οἱ ἀβόει δῖος ἐΥεῖαοῦ ἰά ἀἀεάοάοδῶοῶαῶ ÷ η̑ζοείηιθιεπρίοάο ὁά ἀἀεῦέέα ἐάε ἰαοῦ **SPACE**.
5. Αἴ ἐά ÷ η̑ζοείηιθιεπρῶοῶαῶ üēī ὀηί ἀβόει ᾗέα ὀηί FreeBSD, Ἀδελφὸς Ἰωάννης A.
6. ¼ôáí óád æçðçèåß:

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)?

(ÈYēaḁā īā ōī ēUīrāḁā āḁḁū īā ḁḁāāīāḁḁēU ēmīUḁēā āēā īā ḁāḁāīāBīāē ḁḁīāāḁḁū īā Uēēā ēāēḁīḁḁāēēU ḁḁḁḁPīāḁā?) ÁḁāḁPḁḁā Yes.

7. **ΆδεέΎίοά Write.**
8. **¼οάί οάδ æçðçëß íá ääëáóóðßóáðä öíí boot manager, άδεέΎίοά None íà öí **SPACE** éáé íåöÜ **ENTER** äéá OK.**
9. **Quit (ääåßðä) áðu öí FDISK Editor.**
10. **Èá óád ñùðßóáë èÜðé ð÷åðëü íà öíí boot manager ðÜëé, άδεέΎίοά None íáfÜ.**
11. **ΆδεέΎίοά Label áðí öí Index menu.**
12. **ÍñÜóóä öí äßöëí üðüð èÝëðä (ääß éá ïñßóáðä óá partitions). Áí èÝëðä üüí Ýía partition áðëð ää÷ëåßðä óéð ðñíäëëëÝð äéá óá ðñíëäñëíóíÝía size, partition type filesystem, éáé mountpoint (öí íðíßí äáf ÷ñçóéíñíëåßðáé).**
13. **Öí filesystem éä ðñåáóóåß áóðüüåóá áðu öçí áíöíëß newfs åêüüð áí άδεέΎίòä öí áíóðëäöí. Áí åÜæäðä éáéñýñåí partition óád óöíÝñåé íá öí èÜíåðä! Èá óád äðóáé öí èÜëèð:**

```
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 ᾱᐑóêῖð óᾱð ᾱᐑῖᾱέ Ὠῖêῖñð ðñῖð ÷ñᐑóç.

4 ¶ēēᾱð ēᾱéôῖñᾱᐑᾱð ἰᾱ ôῖð ñᐑóêῖðð

4.1 ᐑñῖóēΨôῖῖᾱð swap.

Ἐᾱêᐑð Ὠῖᾱ óýóçῖᾱ ᾱðᾱêðᾱᐑῖᾱðᾱέ, ç ᾱῖᯚᾱêç ᾱέᾱ ἰᾱᾱᾱýóᾱñῖ swap ᾱᐑῖᾱðᾱέ ῖêῖ ᾱέᾱ ðéῖ ᾱðéóᾱéðéêᐑ. ᐑᾱñῖêῖ ðῖð òῖ ἰᾱ ðñῖóðᾱêᾱᐑ swap óᾱ Ὠῖᾱῖ ððᯚñ ÷ῖῖᾱ ᾱᐑóêῖ ᾱᐑῖᾱέ ðññᾱñᯚ ᾱýóêῖêῖ, Ὠῖᾱð ᾱέῖῖýñᾱéῖð ᾱᐑóêῖð ἰðῖñᾱᐑ ἰᾱ ῖññòῖðῖéçᾱᐑ Ὠðóé ᐑóðᾱ ἰᾱ ðᾱñéΨ ÷ᾱέ òῖ ᾱðéðêᯚ Ὠῖῖ swap ðῖð óᾱð ēᾱᐑðᾱέ.

Ἄέᾱ ἰᾱ ᐑñῖóēΨᾱðᾱ swap ᾱêᐑðð ᾱᯚᾱðᾱ Ὠῖᾱ ᾱᐑóêῖ óòῖ óýóçῖᾱ:

1. Ἐᾱêᐑð êῖᾱᾱðᾱ òῖ ᾱᐑóêῖ (partitioning) ᾱêᯚᯚᯚᾱ òῖ disklabel ᾱέᾱ ῖñᐑóðᾱ ÷ᐑñῖ ᾱέᾱ swap óòῖ êñῖᯚᯚᯚ (partition) ‘b’ ᾱέᾱ ᾱᯚᯚᯚᾱ òῖῖ ððῖêῖðῖ ÷ᐑñῖ óᾱ êᯚᯚᯚᯚᯚ ᯚêᯚᯚ êñῖᯚᯚᯚ, ð.÷. óòῖ ‘a’ ᐑ óòῖ ‘e’. Ὀῖ ἰΨᾱᾱèð ðῖð ᾱᐑῖᾱðᾱ ᾱᐑῖᾱέ óᾱ blocks òῖῖ 512 bytes.
2. Ὠðᾱῖ êᯚᯚᯚᯚᯚ newfs óòῖῖ ᾱᐑóêῖ, Ἰçῖ òῖ êᯚᯚᯚᯚᯚ óòῖ êñῖᯚᯚᯚ ‘c’. Ἀῖðᐑᾱðᾱ, êᯚᯚᯚᯚ òῖ ῖῖῖ óòῖ êñῖᯚᯚᯚ ðῖð ᾱᾱῖ ᾱᐑῖᾱέ swap.
3. ᐑñῖóēΨᾱðᾱ óòῖ /etc/fstab òῖ ðᾱñᾱêᯚᯚᯚ:

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

Ἀêᯚᯚᯚᯚᯚ òῖ /dev/ad0b óòῖ ῖñῖᾱ òçð ᾱέῖῖýñᾱéᾱð óᾱð óðóéᾱðᐑð.

4. Ἄέᾱ ἰᾱ ᾱῖᾱñᾱῖðῖéᐑᾱðᾱ ᯚᯚᯚᯚᯚ òῖ ἰΨῖ swap ÷ñçóêῖῖðῖéᐑᾱðᾱ òçῖ ᾱῖðῖêᐑ swapon

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

4.2 Ἀῖðéᾱñᯚᯚᯚᯚᯚᯚ óᾱ ðᾱñéᾱ ÷ᯚᯚᯚᯚᯚ ᾱᐑóêῖᯚ

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

Ἄέᾱ ἰᾱ ἰᾱðᾱééῖᐑᾱðᾱ ᾱñ ÷ᾱᐑᾱ ᾱðῖ òῖῖ ᾱñ ÷éêῖ óᾱð ᾱᐑóêῖ óᾱ Ὠῖᾱῖ ᾱέῖῖýñᾱéῖ, êᯚᯚᯚᯚ:

```
# 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 ìå ôĩ CCD

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

Ìà òí Concatenated Disk Driver, Ð àèèèþò CCD, ìðíñáßòá íá Ý÷-àòá ðreerýò uùieréòð àßòéiròð àèèÛ íá òòìðñèòéÝñiróáé uò Ýíàð. Ç àéááééáòá éÝÝñáòáé òòá÷þrìáòóç (striping). Ìà òçí àðéèèèèçòç Ý÷-àòá éáéýòáñá àðiròáéÝíóíáá òóçí òá÷-ýòçòá àðáèäÞ ìèñÛÞèiróáé íé ááññáòÝð éáé íé áíááñþòáéð òóiròð àßòéiròð. ÁéááÛòòá òéð manual pages ccd(4) éáé ccdconfig(8) Ð òçí áñ÷èèÞ òáèßáá òiò CCD (<http://stampede.cs.berkeley.edu/ccd/>) áéá ðñéóóòòáññð èððòñÝñéáð.

Ἀέα ία ὀñŸíāōā CCD ḑēŸíí āāí ÷ ñāēŸēāōōāā āēāēēū ḑōñŸíā. ĩā ḡçí āíōīēŸ ccdconfig, ōññōŸíāōāē ōí ēāōŸēēçēī
 KLD āōōūīāōā āí ī ḑōñŸíāōā āāí Ÿ ÷ āē Ÿāç ḑōīōōŸñēíç āēā CCD.

Όά CCD όόεŨ÷ññόάε όά partitions όýđř 4.2BSD. Άí εŸεάόά íá ÷ñçόέíñđíεPόάόά üēř όñř äßóēř έάε đŨεē đñŸđάε íá όόεŨíñάόά Ÿíá íŸí partition. Άέά đánŨüάέäíá, ç ářđřεP **disklabel** -e đřññß íá äßíñáε:

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

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

[illegible]

```
# cd /dev ; sh MAKEDEV ccd0

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

# disklabel -e da0
ᐃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐃᑦᑦᑦᑦᑦᑦ 4.2BSD
# disklabel -e da1
ᐃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐃᑦᑦᑦᑦᑦᑦ 4.2BSD
# disklabel -e da2
ᐃᑦᑦᑦᑦᑦᑦᑦᑦᑦᑦ ᐃᑦᑦᑦᑦᑦᑦ 4.2BSD

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

# newfs /dev/ccd0c
```

Ç öειΡ 273 αβίαι öι Υΰααεìò öìò stripe. Άβίαι ι ανέειυò öìυρ sectors (512 bytes ι έαεΰιάò) óα εΰεα block ααανΰιυρ öìò CCD. Έα ðñΥðαι ία αβίαι öìρεΰ ÷ έóóιρ 128 kB. έαι ααρ ðñΥðαι ία αβίαι άΰιαιç öìò 2.

Ôpñá ìďĩñáßôâ íá êÛíáôâ mount êáé íá ÷ñcôéiĩđiépóáôâ ôi CCD óáo ìÝòù ôcò óóóêãõPò /dev/ccd0c.

ἵά θεῦ ἀοῖάου ἐάε ἀὼΎέέοῖ ἀῖαέεάέοέεῦ ὀῖο CCD ἀῖῖάέ ὀῖ Vinum. Δᾶñέοόῦδᾶñᾶ ὀέçñῖῡῖñḂᾶ ὀῖῖ Vinum Project home page (<http://www.vinumvm.org/>).

5 Ἀõ÷ᾗñéóôßàò

Ἰ óðᾗᾗᾗᾗᾗÝᾗò èᾗ þèᾗèᾗ íᾗ ᾗõ÷ᾗñéóôþóᾗé òīòð ðᾗᾗᾗᾗᾗᾗᾗᾗ ᾗéᾗ òçí óòíᾗéóòīñᾗᾗ òīòð óᾗ ᾗóðþ òçí ᾗᾗᾗᾗóßᾗ òīòð:

- Darryl Okahata (<darrylo@hpnmhjw.sr.hp.com>) ᾗéᾗ òéð ᾗðēÝò ἰᾗçᾗßᾗð ᾗᾗéᾗòᾗóðᾗóç ðᾗᾗò ᾗßóēīò óᾗ ᾗðīēᾗéóóéēü òñüðī ēᾗéóòīñᾗᾗᾗð, òéð ἰðīßᾗð Ý÷ù ðīēēÝð òīñÝð ÷ñçóēīðīēþóᾗé óóçí FreeBSD-questions.
- Jordan K. Hubbard <jkh@FreeBSD.org> ðīò Ýéᾗíᾗ òī sysinstall ÷ñþóēīᾗ ᾗéᾗ òÝòīéīò ᾗßᾗīòð ᾗīðēᾗéÝð.
- John Fieber (<jfieber@indiana.edu>) ðīò Ýᾗùóᾗ òéð ðēçñīñīñᾗð éᾗé óᾗ ðᾗᾗᾗᾗᾗᾗᾗᾗ ᾗéᾗ òī DocBook DTD ðᾗᾗᾗ óᾗᾗ ἰðīßᾗ ᾗóðü òī ēᾗßᾗᾗñ ᾗᾗóßᾗᾗᾗᾗᾗ.
- Greg Lehey <grog@FreeBSD.org> ðīò Ýēᾗᾗᾗ òçí ᾗīðēᾗᾗᾗᾗ ἰīò, øᾗ÷ñīóᾗð ᾗéᾗ ᾗíᾗēñßᾗᾗᾗᾗð, éᾗé ᾗéᾗ òçí òðīóðþñēíç òīò óᾗ ᾗéᾗᾗñᾗ èÝᾗᾗᾗ.