

! " # \$ % & ' () * # + , - & + * FreeBSD

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= 4 # , B , - = \$) % \$ / * 6 (# 8

1. > / = # " / - J " * 7 / 1
2. ! 9 3 4 1 , # " \$ " 6 7 :) 6 " / : 1 5 # " * " 4

; 5 % " * " 6 7 :) 4 < - % % " * " : * , FreeBSD % , / + 6 ; () * + " \$ 6 7 /) 1 5 # , = , ! > , FreeBSD ! " # \$ % & ' " (: * & :) 6 " / : 1 , # - * 9 6 = # & : * ? 6 0 / 7 6 7 " 1 / < / ? : " / 9 3 5 # 0 , . @ / :) 6 " / : 1 , # 5 3 : 7 3 2 " 6 " \$ 6 7 / 7 1 % ? 3 A 7 % , 2 " = , B 4 " 6 " 3 , 7 % - " \$ 6 7 / ,) : / 7 : * / A 5 3 1 # , A " / 4 5 6 ,) * , FreeBSD 6 7 :) 6 " = \$: " / 6 7 7 6 7 1 * B : : " * 7 / .

C " 6 " \$ 6 7 / 7 6 - 0 A & 6 7 " \$: " 1 # , 0 # 7 4 4 7 * / : * 8 3 8 1 \$ % , 3 4 " * & 6 A " 6 * # / A 8 , 4 - 2 7 * ,) FreeBSD 0 / 7 6 7 0 \$ 6 " / & :) 6 " / : 1 , # - : 7 3 7 1 , 2 " A * 8 . > , FreeBSD 7 6 7 1 * B : : " * 7 / 7 1 + 5 6 7 4 " 0 - % , 7 # / . 4 + 7 6 . # ? 1 9 6 7 1 + + % , * , 6 A + : 4 , . D * & 6 , 4 - 2 7 7 6 - 1 *) E & 3) 1 - # = ,) 6 - * , 4 7 2 / 7 1 + # 9 6 & % / A ? 6 8 0 6 9 : * / A ? 6 7 6 * / A " / 4 5 6 9 6 . @ / " # 0 7 : \$ " 3 , / , 1 , \$ " 3 1 # 5 1 " / 6 7 0 \$ 6 ,) 6 " \$ 6 7 / 7 # A " * 5 3 + 4 9 3 . ! , % % 5 3 1 , # 5 3 " \$ 6 7 / 1 " # / : : + * " # " 3 7 1 + + * / 4 1 , # , B 6 6 7 A - 6 ,) 6 , / - 6 . # 9 1 , / 1 ,) " \$ 6 7 / 2 / 7 . 5 : / 4 , / : * & 6 , 4 - 2 7 * ,) FreeBSD. F / 7) * + " \$ 6 7 / 1 - 6 * , * " A 7 % , 2 " = , B 4 " 6 & A - . " < , 8 . " / 7 .

> , FreeBSD " \$ 6 7 /) 1 " B .) 6 , 0 / 7 5 6 7 , % + A % & # , % " / * ,) # 0 / A + 1 " # / < - % % , 6 , A / + = / 4 + 6 , 0 / 7 5 6 7 1) # 8 6 7 8 4 " # / A - 2 / - : 1 7 # * 7 " # 0 7 % " \$ 7 . G * : / , & % \$: * 7 * 9 6 " # 0 7 : / ? 6 1 ,) 1 # 5 1 " / 6 7 0 \$ 6 ,) 6 A 7 % B 1 * " / 5 6 7 7 # A " * - 4 " 0 - % , " B # , 3 : 7 1 + * & 6 * " A 4 & # \$ 9 : & , * & 2 , A / 4 8 A 7 / * & 6 1 7 # ,) : \$ 7 : & , 4 5 = # / * , 1 # + 0 # 7 4 4 7 " 0 A 7 * - : * 7 : & 3 * ,) :) : * 8 4 7 * , 3 A 7 / * 7 1 , % B " E " / 2 / A ") 4 5 6 7 . 5 4 7 * 7 * & 3 7 6 - 1 *) E & 3 * ,) 1) # 8 6 7 . G * : / " \$ 6 7 / : = " 2 + 6 : \$ 0 ,) # , + * / + % , / 4 1 , # , B 6 6 7 :) 6 " / : 1 5 # ,) 6 4 " " 1 , / A , 2 , 4 & * / A + * # + 1 , : * , 5 # 0 , 7 6 - 1 *) E & 3 * ,) FreeBSD , + 1 , / " 3 0 6 ? : " / 3 A 7 / 6 7 5 = ,) 6 .

H 7 3 " 6 2 / 7 1 5 # " / " 1 \$: & 3 A 7 / A - . " " 1 / A , / 6 9 6 \$ 7 4 " " 4 1 , # / A , B 3 , # 0 7 6 / : 4 , B 3 , " 1 + : , 6 2 # 7 : * & # / , 1 , / , B 6 * 7 / : " A - 1 , / , = ? # , : = " * / A + 4 " * , FreeBSD. I # " / - J " : * " 4 / 7 " / 2 / A 8 " 1 5 A * 7 : & 0 / 7 6 7 2 ,) % 5 " " / * , 1 # , K + 6 : 7 3 ; ; 7 4 7 3 < # " \$ " 2 " A * / A , B 3 : * 7 7 / * 8 4 7 * 7 : 7 3 á " / 2 / A - + * 7 6 " \$ 6 7 / # " 7 % / : * / A - . C ,) % " B " * " 1 - 6 9 : " 5 6 7 1 # , K + 6 < 7 : / : 4 5 6 , : * , FreeBSD ; ! 7 # 7 A 7 % , B 4 " " 6 & 4 " # ? : * " 4 7 3 . H 1 , # " \$ 6 7 :) 6 " # 0 7 : * , B 4 " 4 " A - 1 , / , * # + 1 , = # 8 : / 4 , A 7 / : * / 3 2 B , 1 %) # 5 3 . @ A + : 4 , 3 * ,) % " B . " # ,) % , 0 / : 4 / A , B 5 = " / " 6 2 / 7 1 5 # ,) : " 3 " 1 / 1 * ? : " / 3 : " 1 , % % 5 3) 1 - # = ,) : " 3 . " 9 # \$ " 3 : = " * / A - 4 " * & 6 7 6 - 1 *) E & , * & 6 1 ? % & : & A 7 / * & :) 6 * 8 # & : & * ,) % , 0 / : 4 / A , B . (E S J " / , 7 6 + = / 6 7 7 : = , % & . " \$ " 4 7 J S * ,) , * ,) % - = / : * , 6 6 7 5 = " * ") 1 + ' & : 7 3 1 9 3 % " / * ,) # 0 " \$.

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1.1. 2) 3, &4\$- 1 * " 5\$ /) \$%01*#+, % 1) *3) , 66, +%&+(-

(#A", \$ -6. #9¹, / 1,) :="*SJ, 6*7/ 4" *, FreeBSD 2"6 "\$67/ 1#, 0#7447*/: *53. >, 5#0, 1"#/%74<-6"/ :)00#71"\$3 *A4	: &3, :="2/7: *53 /: *, : "%\$296 A7/ 76. #?1,) 3 1,) *,)1, : *&#SJ,) 6. >, 4+6, 1,) =#"/-J"*7/ 0/7 67 :) 6"/: 15#"/ A-1, /, 3 : *, 5#0, 7) *83 *&3, 4-273 "\$67/ & 2/- .": & 67 "1"62B: "/%\$0, =#+6, A7/ & .5%&: & 0/7 06?: &.

1. C/7<-: "*" *& %\$: *7 :) =6?6 "#9*8: "96 (FAQ) A7/ *, MO="/#2/, *,) FreeBSD. (6 A-*/ 2"6 "E&0"\$*7/ : 9: *- , 1"#/5="/ E"1"#7: 456"3 1%&#, 1, #S"3 8 "\$67/ "6"*"?3 %- . , 3, /2, 1, /8: "*" 473. (A+47 A7%B*"#7, : "*"%" 473 4/7 2/+#. 9: & (& SGML 2"6 "\$67/ 2B: A, %& : *&6 "A4- . &: &, 7%- 1-6*7 2"=+47: "*" A7/ 2/, #. ? : "/3 : " 4, #18 7¹%, B A"/456,) ASCII).
2. N, & 8: "*" : *& 4"*- 1#7: & *3 *A4	: &3 *,) FreeBSD : *& 4&*/A8 : 73 0%?: : 7. (6)¹- #="/ 82& *A4	: & : *& 0%?: : 7 : 73, 4¹, #"\$*" 67 <, & 8: "*" : *& 4"*- 1#7: & "1/1#+: . "*"96 A"/45696 8 67 "1/<"<7/?6"*" +*/ & 4"*- 1#7: & "\$67/ "6&4"#9456&. ! #? *7, A, /*- E*" : */3 7176*&456"3 "#9*8: "/3 : ="/A- 4" */3 4"*71#- : "/3 : *, N7: /A+ @2&0+ 0/7 *6 >"A4	: & *,) FreeBSD. >, 67 : "%\$%" 4\$7 4"*- 1#7: & 2"6 : 73 A7. /: *-) 1"B.) 6, 67 4"*71#- : "*" +%& *6 *A4	: & *,) FreeBSD. O3 ". %, 6*83 4¹, #"\$*" 67 4"*71#- : "*" +: 7 A"\$4"67 .5%" 8 4¹, #"\$*"á+: , 1, %%- , 4"0-%7, 4/A#- 8%\$07 "\$67/ 7) *- . H+%/3 7#=#: "/ A-1, /, 3 * & 4"*- 1#7: & *3 *A4	: &3 *,) FreeBSD : " 4/7 0%?: : 7, : ="2+6 745: 93 7#=#: ,) 6 67 :) 6"/: 15#,) 6 A/ -%, / : *&6 1#, : 1- . "/7. (6 5="*" *, =#+6, 8 *6 "65#0"/7 67 4"*71#- : "*" 4+6, 567 45#, 3 *3 *A4	: &3, 17#7A7%, B4" 4"*71#- : "*" */3, 2&0\$3 "0A7*- : *7: &3.
3. P7 2/7<-J"*" 1"#/: *7: /7A- (8 A7. &4"#/6-) */3 &%"A*#, 6/A8 %\$: *7 0"6/A?6 "#9*8: "96 *,) FreeBSD A7/ news:comp.unix.bsd.freebsd.misc. >, 67 4, /#-J": "*" *6 "4¹"/#\$7 : 73 A7/ 67 <, & . - "*" 76. #?1,) 3 67 %B: ,) 6 *7 1#, <%847*- *,) 3 4¹, #"\$ 67 "\$67/ /2/7\$*"#7 /A76, 1, /&*/A+. H"#/A53 1, #53 4¹, #"\$ 67 4- . "*" A7/ A-*/ 65, 45: 7 7¹+ 7) *8 * & 2/72/A7: \$7! M1\$: &3 7) *53 , / :) J*8: "/3 4¹, #"\$ 67 : 73 2?: ,) 6 /25"3 0/7 A7/6, B#/7 "62/715#, 6*7 1#- 047*7 4" *7 , 1, \$7 4¹, #"\$*" 67 7: =, %&. "\$*".

1.2. 2) 3, &4\$- 3%, 1) *3) , 66, +%&+(-

D*/3 1"#/: : +*"#"3 7¹+ */3 "#07: \$"3 1,) 76715#, 6*7/ "2? =#"/-J"*7/ "\$*" : &476*/A8 "1562): & =#+6,) 8 4\$7 : " <- . , 3 06?: & *,) 1) #867 *,) FreeBSD 8 A7/ *7 2B, . Q¹-#=#,) 6 "1\$: &3 1, %53 "#07: \$"3 , / , 1, \$"3 "\$67/ *7) *+=#, 67 =#8: /4"3 A7/ 7#A"*- "BA, %"3 7A+4& A7/ 0/7 A-1, /, 6 "hacker *,) : 7<<7*, AB#/7A,)".

1. (6 *#5="*" FreeBSD-CURRENT A7/ 5="*" 0#80, #& : B62": & : *, Internet,)¹- #="/ 5673 "E) 1&#"*&83 : *, current.FreeBSD.org 1,) ="*SJ"/" 4/7 1%8#& 5A2, : & A- . " 45#7. ! #, : 17. 8: "*" 67 "0A7*7: *8: "*" *6 *") *7\$7 5A2, : & 7¹+ "A"\$ A7/ A-6*" 7671, #- 0/7 , 1, /, 28¹, * 1#++<%&47 :) 676*8: "*" A7*- * & 2/- #A"/7 *3 "0A7*- : *7: &3 8 4"*- 7¹+ 7) *86.
2. C/7<-: "*" *& &%"A*#, 6/A8 %\$: *7 7671, #?6 1#, <%&4- *96 *,) FreeBSD. ! / . 76+6 67)¹- #="/ A-1, /, 1#++<%&47 *, , 1, \$, 4¹, #"\$*" 67 :=, %/- : "*" "1, /A, 2, 4&*/A- 8 A-1, /, patch *, , 1, \$, 4¹, #"\$*" 67 2, A/4- : "*" . (A+47 A7%B*"#7, 4¹, #"\$ 67 <#"*" A-1, /, 1#++<%&47 *, , 1, \$, : 73 17\$6"*7/ "62/715#, 6 A7/ 4¹, #"\$ 67 *, 2/, #. ? : "*" , / \$2/, /.
3. (6 069#SJ"*" , 1, /": 28¹, "*" 2/, #. ? : "/3 1#, <%847*, 3 , / , 1, \$"3 5=,) 6 "17#4, : "*" \$ "1/*) =&4567 : *, 6 A%- 2, 76- 1*) E&3 -CURRENT 7%- 2"6 5=,) 6 :) 0=96") "*" \$ 4" * , 6 A%- 2, -STABLE 4"*- 7¹+ A-1, /, %, 0/A+ 2/- : *&47 (:) 68. 93 4"#/A53 <2, 4-2"3), : "%\$*" : *, 6 committer 4/7 ") 0"6/A8

) 1 "6. B4/: &.

4. N, &. 8: * " 473 67 E"=9#\$. ,) 4" *, %, 0/: 4/A+ 7¹+ "E9*"/A53 , 4-2"3 A7/ 67 4"*7A/68: ,) 4" *5*, /7¹#, 0#- 447*7 : *, 6 A7*-%, 0, src/contrib *,) 1 &07\$,) A?2/A7.

5. D/0,) #") *"\$*" +*/ *7¹#, 0#- 447*7 *,) src/contrib 5=,) 6 "6&4"#9. "\$: */3 *"\$") *7\$"3 2/7. 5: /4"3 "A2+: "/3.

6. H"*70%9**\$: * " *, 6 1&07\$, A?2/A7 (8 567 45#, 3 *,) A?2/A7) 4" "¹/¹%5, 6 "/2, ¹, /8: "/3 ¹/. 76?6 %7. ?6 (compiler warnings) A7/ 2/, #. ?: * " +*/ %- . & <#" "\$*".

7. C/, #. ?: * " */3 ¹#, "/2, ¹, /8: "/3 %- . ,) 3 (warnings) 0/7 *7 ports *7 , ¹, \$7 =#&: /4, ¹, /, B6 4& 7¹, 2"A*53 A%8: "/3, +¹ 93 & :) 6- #* &: & gets(), 8 :) 4¹"#/%74<- 6,) 6 ¹7%/- 7#=" \$7 include, +¹ 93 *, malloc.h.

8. (6 5="*" :) 6"/: 15#"/ 7%%7053 0/7 A- ¹, /7 ports A7/ =#"/- : * &A76 7%%7053 0/7 67 2,) %5' "/ *, 76*\$: *, /=, %, 0/: 4/A+ : 9: *- : " FreeBSD, : *"\$*" */3 7%%7053 : 73 : *,) 3 7#=#/A, B3 2&4/,) #0, B3 *,) %, 0/: 4/A, B (7) *+ . 7 A- 6"/ * & J98 : 73 ") A, %+"#& +*76 . 7 A) A%, 1, #8: ,) 6 * & 657 5A2, : &).

9. ! #, : ¹7. "\$: * " 67 <#" "\$* " 76*\$0#717 7¹+ "¹\$: &47 ¹#+*) ¹7 +¹ 93 *, POSIX". H¹, #" "\$* " 67 <#" "\$* " :) 625: 4,) 3 : ="/A- 4" 7) *- *7¹#+*) ¹7 : * &6 /: *, : "%\$27 FreeBSD C99 & POSIX Standards Conformance Project. D) 0A#\$6" "*" * &6 :) 4¹"#/#1, #- *,) FreeBSD 4" * &6 7¹7/*, B4"6& 7¹+ *7 ¹#+*) ¹7. (6 & :) 4¹"#/#1, #- 2/715#"/, /2/7\$*"#7 : " %"¹*- 8 2): 2/- A#/*7 : &4"\$7 *96 ¹#, 2/70#71?6, : *"\$*" 4/7 7671, #- ¹#, <%847*, 3 : ="/A- 4" 7) *+. (6 "\$67/ 2) 67*+6 : A" 1"\$*" 567 *#+¹, 67 2/, #. ?: * " *, ¹#+<%&47 A7/ :) 4¹"#/%-<" * , patch : * &6 7671, #- : 73. (6 . "9#"\$*7/ +*/ *7¹#+*) ¹7 "\$67/ %76. 7: 4567, . 5: * " "#?*&47 : *, 6 , #076/: 4+ *,) ¹#, *B¹,) 67 "E"*- : "/ *, . 547.

10. H¹, #" "\$* " 7A+4& 67 ¹#, *"\$6" "*" "¹/¹%5, 6 "#07: \$"3 0/7 7) *8 * & %\$: *7!

1.3. 2) 3, &4, 7 (&8 +9- : 0&9- ; #, ' *) <# =) * >?960+8# (PR database)

L %\$: *7 7671, #?6 ¹#, <%&4- *96 *,) FreeBSD ¹"#/#5="/ +%"3 */3 069: *53 7671, #53 ¹#, <%&4- *96 A7/ *7 7/*847*7 767<- . 4/: &3 *7 , ¹, \$7 5=,) 6) ¹, <- %"/ : " 7) *8 , / =#8: *"3 *,) FreeBSD. D" 7) *8) ¹- #=#,) 6 "#07: \$"3 *+ : , 0/7 ¹#, 0#7447*/: *53 +: , A7/ 0/7 4& ¹#, 0#7447*/: *53. G673 *#+¹, 3 67 <, &. 8: * " * &6 76- ¹*) E& *,) FreeBSD "\$67/ 67 2/7*#5E" (4\$7 & ¹"#/: : +*"#"3 1, #53) * & %\$: *7 ¹#, <%&4- *96, ' - =6, 6*73 0/7 A- */ ¹,) : 73 "62/715#"/. H"#/A53 7¹+ 7) *53 */3 7671, #53 ¹#, <%&4- *96 : =*"SJ, 6*7/ 4" ¹, %B 7¹%53 "#07: \$"3. !, %%53 1, #53 7#A"\$ 4\$7 : B6*, 4& 47*/- 0/7 67 "¹/¹<"<7/9. "\$ +*/ & ¹#, *"/6+4"6& 2/+#. 9: & A- ¹, /,) ¹#, <%847*, 3 "\$67/ : 9: *8. R%"3 1, #53 , / 7%%7053 ¹,) =#"/- J, 6*7/ "\$67/ ¹/, 2B: A, %"3 8 2"6 5="/ <#". "\$A- ¹, /7 %B: & 7A+47.

(#=#: * " 4" */3 7671, #53 ¹#, <%&4- *96 ¹,) 2"6 5=,) 6 "A=9#&. "\$: " A- ¹, /, 6 -%, 6. (6 & 7671, #- "\$67/ A7*7=9#&456& : " A- ¹, /, 6, 7%- <%5¹" "*" +*/ "\$67/ A- */ ¹,) 4¹, #" "\$* " 67 ="/#: : *"\$*", "/2, ¹, /8: * " 4" email *, 6) ¹"B.) 6, * &3 7671, #- 3 A7/ #9*8: * " 76 4¹, #" "\$* " 67 2,) %5' "*" ¹- 69 : ' 7) *86. S: 93 ,) ¹"B.) 6, 3 5="/ 82& E"A/68: "/ A- ¹, /"3 2/, #. ?: "/3 A7/ : 73 2?: "/ A- */ 0/7 2, A/48 8 5="/ 82& A- ¹, /"3 /25"3 ¹,) 4¹, #" "\$* " 67 :) J&*8: * " 47J\$*,).

1.4. @%, ?(A+\$ BO¹ *%*, #+%B\$46\$#* , ¹ C +9# &\$?45, 6\$ +%-%5(\$- "

L %\$: *7 FreeBSD *96 5#096 A7/ *96 /2"?6 0/7 ". "%, 6*53 "\$67/ "1\$: &3 2/7. 5: /4& 0/7 76. #?1,) 3 4" 2/- . ": & 67 :) 6"/: 15#,) 6 : *, 5#0, *,) FreeBSD. L %\$: *7 7676"?6"*7/ *7A*/A- A7/ "1"/%74<- 6"/ 76*/A"\$4"67 0/7 "67: =+%&: & *+: , 0/7 ¹#, 0#7447*/: *53 +: , A7/ 0/7 4& ¹#, 0#7447*/: *53 A7/ ¹7#5="/ ¹%&#, 1, #"\$3 0/7 A- . " 5#0, .

2. = 8- 6¹ *) \$4+\$ #, &" #\$\$%&' () \$+\$

@/:) 6"/: 1, #53 : *, : B: *&47 A7*7*- : : , 6*7/ 0"6/A- : " 4/7 7¹+ */3 7A+%,) . "3 5 A7*&0, #"\$3:

2.1. ; #, ' *) (- ¹) *>?D6, +*- B, % 3\$#%B(- \$¹ \$A9396, +%B(- ¹,) , +9) D&\$%- -&/C?%,

H/7 /257 8 ¹#+*7: &)&*(+, - *"=6/A, B "62/715#, 6*, 3 . 7 ¹#5¹" / 67 7¹, : *7%"\$: *& %\$: *7 &%"A*#, 6/A8 %\$: *7 *"=6/A?6 :) J&*8: "96 *,) FreeBSD. M¹/¹%5, 6, -6. #9¹, / 4" "62/715#, 6 0/7 *5*, /7 . 547*7 (7%- A7/ 76"A*/A+*%*7 : " . &)/0, 7#/. 4+ "/: "#=+4"696 4&6) 4- *96!) 4¹, #, B6 67 0#71*, B6 : *& %\$: *7 &%"A*#, 6/A8 %\$: *7 *"=6/A?6 :) J&*8: "96 *,) FreeBSD. C"\$* " *, MO="/#\$/ ,) FreeBSD 0/7 ¹"#/: : +*"#"3 ¹%&#, 1, #"\$3 : ="*/A- 4" 7) *86 7%- A7/ - %%"3 %\$: *"3.

(6 <#"S*" A- ¹, /, bug 8 76 5="*" A- 6"/ A- ¹, /7 :) 0A"A#/456& 7%%708, ¹7#7A7%, B4" A- 6*" 7671, #- =#&: /4, ¹, /?6*73 *, ¹#+0#7447 [send-pr\(1\)](#) 8 *%6 76*\$: *, /=& /: *, : "%\$27. ! #, : ¹7. 8: *" 67 :) 4¹%&#?: "*" +%7 *7 ¹"2\$7 *%3 7671, #- 3. (6 , / 7%%7053 ¹,) A- 67*" 2"6 E"¹"#6, B6 *7 65KB : " 450". , 3, :) 4¹"#/%- <"* "*/3 7%%7053 : 73 7¹"). "\$73 : *%6 7671, #- . (6 , / 7%%7053 "\$67/ A7*- %%%"3 0/7 "17#4, 08 : *, 6 ¹&07\$, A?2/A7, ¹#, : . 5: "*" *%6 "*"A5*7 [PATCH] : *%6 ¹"#\$\$%&' & *%3 7671, #- 3. T*76 :) 4¹"#/%74<- 6"" patches, . 1 =#&: /4, ¹, /"\$*" 76*/0#718-A7/-" ¹/A+%&: &, 2/+* / 76*/0#718 A7/ " ¹/A+%&: & 4"*7*#5¹" / :) =6- *,) 3 : *%&, . 5*"3 (TAB) : " A"6- A7/ 7=#&: "*"B"/ *, patch. (6 *7 patches "\$67/ ¹, %B 4"07%B*"#7 7¹+ 20KB, 2, A/4- : "*" 67 *7 :) 4¹/5: "*" (1.= 4" *, [gzip\(1\)](#) 8 *, [bzip2\(1\)](#)) A7/ =#&: /4, ¹, /8: "*" *, "#07%"\$, [uuencode\(1\)](#) 0/7 67 "/: - 0"" *%& :) 4¹ /: 456& 4, #18 : *%6 7671, #- : 73.

H"*- *%3) ¹, <, %8 4/73 7671, #- 3 . 7 %- <"* " ¹/¹<"<7\$9: & ¹7#- %%%7 4" 5676 7#/. 4+ 7671, #- 3. U#7*8: "*" *, 6 7#/. 4+ ? : "*" 67 4¹, #"S*" 67 473 "6&4"#?6"" 4" ¹%&#, 1, #"\$3 : ="*/A- 4" *, ¹#+<%&47 : *5%6, 6*73 mail : *, bug-followup@FreeBSD.org. I #&: /4, ¹, /8: "*" *, 6 7#/. 4+ *%3 7671, #- 3 : 73 : *, . 547 *,) 4&6B47*, 3, ¹.=. "Re: kern/3377". M¹/¹#+: . "*"3 ¹%&#, 1, #"\$3 0/7 , ¹, /, 28¹, "*" 7671, #- ¹#, <%847*, 3 . 7 ¹#5¹" / 67) ¹, <- %%, 6*7/ 4" *, 6 ¹7#7¹- 69 *#+¹, .

M- 6 2" %- <"* " ¹/¹<"<7\$9: & "0A7\$#93 (3 45#"3 93 4/7 <2, 4- 27, 76- %, 07 4" *% 7E/, ¹/: *\$7 *,) email) 8 0/7 A- ¹, /, %+0, 72) 67*"S*" 67 =#&: /4, ¹, /8: "*" *%6 "6", %8 [send-pr\(1\)](#), 4¹, #"S*" 67 7¹".) 6. "\$*" : " A- ¹, /, 6 ¹#, A"/456,) 67 *%6 7#="/, . "*"8: "/ 0/7 " : - 3 : *5%6, 6*73 mail : *& &%"A*#, 6/A8 %\$: *7 7671, #?6 ¹#, <%&4- *96 *,) FreeBSD.

C"\$*" "1\$: &3 7) *+*, - #. #, : ="*/A- 4" *, ¹?3 67 0#- 1"" A7%53 7671, #53 ¹#, <%&4- *96.

2.2. ; ??, 3(- &+9# +\$B69) 48&9

@/ 7%%7053 : *%6 *"A4&#S9: & "1/<%5¹, 6*7/ 7¹+ *%6 &"A*#, 6/A8 %\$: *7 , 4- 273 *"A4&#S9: &3 * ,)
 FreeBSD. F/7 ¹%8#"/3 , 2&0\$"3 : ="/A- 4" * , 6 *#+¹ , ¹ ,) 4¹ , #"\$*" 67 :) 6"/: 15#"*" : *%6 *"A4&#S9: &
 * ,) FreeBSD, 2"\$*" * , 6 @2&0+ *"A4&#S9: &3 * ,) FreeBSD. D"\$%" *7 A7/6, B#/7 : 73 A"\$4"67 8 * /3
 7%%7053 : 73 (7A+4& A7/ 4/A#, 2/, #. ? : "/3 "\$67/ ¹- 6*7 A7%, 2"=, B4"6"3) =#&: /4, ¹ , /?6*73 *%6
 "6* , %8 send-pr(1) +¹93 ¹"#/0#- 1"*" : * , (671, #53 ¹#, <%847*, 3 A7/ 0"6/A53 "¹"E&0&47*/A53
¹7#7*: "/3-: =+%/7.

2.3. ; ??, 3(- &+*# = 93, 4* E< 5%B,

H\$7 ¹#, : . 8A& 8 7%%708 : * , 6) ¹- #=, 6*7 A?2/A7 "\$67/ A7*- A- ¹ , / , *#+¹ , ¹"#\$*"=6&) ¹+ . ": & A7/
 "E7#*- *7/ 7#A"*- 7¹+ * , 6 <7. 4+ *%3 "6&45#9: &3 ¹ ,) 5="*" 4" *%6 *#5=,) : 7 A7*- : *7: & *%3
 76- ¹*) E&3 * ,) FreeBSD. Q¹- #="/ 4/7 "/2/A8 :) 6"=?3 767¹*) : : +4"6& 5A2, : & * ,) FreeBSD 069: *8
 93 "FreeBSD-CURRENT" & , ¹ , \$7 "\$67/ 2/7. 5: /4& 4" 2/- 1, #,) 3 *#+¹ ,) 3 0/7 *%6 ") A, %\$7 *96
¹#, 0#7447*/: *?6 ¹ ,) 2#7: *%#/ , ¹ , / , B6*7/ "6"#0- : *%6 76- ¹*) E& * ,) :) : *847*, 3. C"\$*" * ,
 M0="/#S2/, * ,) FreeBSD 0/7 ¹"#/: : +*"#"3 ¹%&#, 1, #S"3 : ="/A- 4" * , ¹ ,) . 7 <#" \$" A7/ ¹?3
 4¹ , #"\$*" 67 =#&: /4, ¹ , /8: "*" * , FreeBSD-CURRENT.

C,) %"B, 6*73 7¹+ ¹7%/+*"#, A?2/A7 2): *) =?3 : &47\$6"/ +*/ , / 7%%7053 : 73 4¹ , #"\$4"/A53 1, #53 67
 "\$67/ 7#A"*- E"¹"#7: 456"3 8 67 7¹ , A%\$6,) 6 ¹ , %B, , ¹+*" 67 2): A, %"B"/ A- ¹93 & "6: 94- *9: 8 * ,) 3
 : * , FreeBSD. V\$: A7 : 76 0/ 7) *- 4¹ , #, B6 67 "%7=/: * , ¹ , /& . , B6 A- ¹93 4" *%6 :) 44"* , =8 : */3 %\$: *"3
 &"A*#, 6/A8 %\$: *7 767A, /6?: "96 * ,) FreeBSD A7/ &"A*#, 6/A8 %\$: *7 *%3 5A2, : &3 FreeBSD-
 CURRENT, : */3 , ¹ , \$"3 2/"E- 0, 6*7/ :) J&*8: "/3 0/7 *%6 *#5=,) : 7 A7*- : *7: & * ,) :) : *847*, 3.

(1, B "E7: 17%\$: "*" A- ¹93 567 : ="/A- "6&4"#9456, 76*\$0#71, * ,) ¹&07\$,) A?2/A7 93 <- : & 0/7
 */3 7%%7053 : 73, * , "¹+4"6, <847 "\$67/ 67 2&4/,) #08: "*" diffs 0/7 7¹ , : * , %8 : *%6 , 4- 27 76- ¹*) E&3
 * ,) FreeBSD. () *+ 0\$6"*7/ 4" *%6 "6* , %8 diff(1).

> , ¹#, */4?4"6, format * ,) diff(1) 0/7 *%6) ¹ , < , %8 patches "\$67/ & "6, ¹ , /&456& 4, #18 "E+2,)
 (unified diff), ¹ ,) 2&4/,) #0"\$*7/ 7¹+ *%6 "6* , %8 di ff -u. H/7 4/A#8 "E7\$#": & "\$67/ *7 *7 patches
¹ ,) 7%- J,) 6 4"0- %7 A, 44- */7 A?2/A7, ,) : /7: */A- 76*/A7. /: *?6*73 *7 : ="2+6 4" 4/7 A7/6, B#/7
 5A2, : &. F/7 *5* , /"3 7%%7053 4¹ , #"\$ 67 "\$67/ ¹/, ") 76- 069: *% & 4, #18 "E+2,) ¹ ,) 2&4/,) #0"\$*7/
 7¹+ *%6 "6* , %8 di ff -c.

F/7 ¹7#- 2"/047 * , :

```
% di ff -c !!"#!_!$%&' ( )*(!_!$%&' (
```

8 * ,

```
% di ff -c -r !!"#!+_ , !- . "(/(+ )*(+_ , !- . "(/(+
```

. 7 2&4/,) #08: "/ 567 : "*" 7¹+ context diffs 0/7 * , 6 A?2/A7 * ,) :) 0A"A#/456,) 7#="\$,) 8 *%3
 /"#7#=\$73 A7*7%+096.

@4, \$93 * , ,

```
% diff -u !"#!_!$%&' ( )*( _!$%&' (
```

8 *

```
% diff -u -r !"#!+_,!-."/(+ )*(+_,!-."/(+
```

. 7 A- 6"/ *, \$2/, , 7%- . 7 17#- 0"/ diff "6, 1, /&456& 4, #18.

C"\$*" * & <, 8. "/7 *,) "#07%"\$,) diff(1) 0/7 1"#/: : +*"#"3%"1*, 45#"/"3.

(1+ * & : */048 1,) 5="*" A- 1, /7 diffs, (*7 , 1, \$7 41, #" \$" 67 "%50E" "*" 4" * & 6 "6*, %8 patch(1)), . 7 1#51"/ 67 *7) 1, <- %%"*" 0/7 "6: 94- *9: & : *, FreeBSD. I #&: /4, 1, /8: "*" *, 1#+0#7447 send-pr(1), +193 1"#/0#- 1" "*" : *, A"\$4"6, (671, #53 1#, <%847*, 3 A7/ 0"6/A53 "1"E&O&47*/A53 17#7*: "/3- :=+%/7. 21 : *5%6" "*" 4+6, 567 486) 47 4" *7 patches : * & %"A"#, 6/A8 %\$: *7 "*" =6/A?6 :) J&*8: "96 *,) FreeBSD 7%/?3 . 7 =7. , B6! D73 ") =7#/: *, B4" 1#, A7*7<, %/A- 0/7 , 1, /7281, "*" 1#, : 1, #- A?2/A7 (*, 5#0, 76- 1*) E&3 *,) FreeBSD "\$67/ ". "%, 6*/A8 1#, : 1- . "/7 1,) <7: SJ" *7/ 7A#/<?3 : " *5*, /"3 1#, : 1, #53!). M1"/28 "\$47: "*" 717: =, %&456, /, 41, #" \$ 67 4& ="/#/: *, B4" * & 6 7\$* & : & 0/7 7%708 745: 93, 9: *+: , 45=#/ 67 *, A- 6,) 4" 7) *+, . 7 17#74"\$6"/ : * & 6 <- : & 7671, #?6. ;) 4&. "\$*" 67 "1/: &4- 6" "*" * & 6) 1, <, %8 : 73 4" * & 6 "*/A5*7 [PATCH] : * & 6 1"#%&' & * & 3 7671, #- 3.

(6 6, 4SJ" "*" +*/ =#"/- J" *7/ (1.=. 5="*" 1#, : . 5*"/, 717/#5: "/ 8 4"* , 6, 4- : "/ A- 1, /7 7#=" \$7), =#&: /4, 1, /"\$: "*" *, "#07%"\$, tar 0/7 67 17A" *- # "*" */3 7%7053 : 73, A7/ *, "#07%"\$, uuencode(1) 0/7 67 */3 "6: 947*? : "*" : * & 6 7671, #- 1,) . 7 : *"\$%"*". M67%7A*/A-, 41, #" \$" 67 =#&: /4, 1, /8: "*" *, "#07%"\$, shar(1) 76*\$0/7 *, tar(1).

(6 & 1B: * & 96 7%70?6 1,) . 5%"*" 67 A- 6" "*" "\$67/ A- 193 ") 7\$: . &* &, 1.=. 76 2"6 "\$: "*" : \$0,) #, / 0/7 *7 16") 47*/A- 2/A7/? 47*7 A7/ * & 2/76, 48 *96 7%70?6 8 76 71%- 2"6 "\$: "*" 5*, /4, / 67 2?: "*" : * & 2&4, : /+* & *7 A- 1, /"3 7%7053 =9# \$3 567 review 7A+47, *+*" "\$67/ A7%B" *#7 67 : *"\$%"*" */3 7%7053 : 73 71"). "\$73 : * & 6 Core Team <core@FreeBSD.org> 76*\$67 */3 1#, 9. 8: "*" 45: 9 *,) send-pr(1). L Core Team <core@FreeBSD.org> 71, *"\$%"\$7/ 71+ 567 1, %B 4/A#+*"#, 7#/. 4+ 7*+496. G="*") 1+' /6 +493 +*/7) *8 & , 4- 27 "\$67/ 1, 0- "1" #3, 01. 4*1, , 1+*" A7%+ "\$67/ 67 *,) 3 : *5%6" "*" 4&6B47*7 4+6, +*76 "\$: "*" 7A" *- : \$0,) #, / +*/ "\$67/ 717#7\$* & *, .

U- */ *"\$") *7\$, : =*" /A- 4" *, 6 1&07\$, A?2/A7 *,) FreeBSD. @/ : "%\$2"3 "*"A4&# \$9: &3 intro(9) A7/ style(9) 1"#/5=,) 6 1%&# , 1, # \$"3 : =*" /A- 4" *, : *) % A?2/A7 1,) 1#, */4, B4" 0/7 *, FreeBSD. ! #/6 : *"\$%"*" : &476*/A53 7%7053 : * & 6 , 4- 27 76- 1*) E&3 "\$67/ : &476*/A+ 67 5="*" "E, /A"/9. "\$ 4" *, : *) % 1,) 0#- 1,) 4" A7/, +*76 "\$67/ 2) 67*+6, 67 *, 7A, % ,) . 8: "*" : *, 0#- ' /4, *,) A?2/A7 1,) . 7 473 : *"\$%"*.

2.4. F (*- E< 5%B, - B, % 7 \$30?, =, B(+, =) C&G\$+8# H,) , B+9) %&+%B<

D* & 6 1"# \$1 *9: & 4/73 : =*" /A- 4" 0- %&3 :) 6"/: 1, #- 3 %, 0/: 4/A, B : *, FreeBSD A7/ A- . " 1, #- 1,) 1#, : *\$ " *7/ 567 : &476*/A+ A7/6, B#/, =7#7A* & #/: */A+ : *, : B: * & 47, "\$67/ : = "2+6 1- 6*7 717#7\$* & *, 67 "\$67/ 2/7. 5: /4"3 , / 7%7053 4" * & 4, #18 "6+3 17A5*,) tar 8 67 "\$67/ 2/7. 5: /4"3 45: 9 "6+3 "E) 1 & # "*" * & 8 web 8 FTP. (6 2"6 5="*" 1#+: <7: & 0/7 67 76" <- : "*" *7 7#=" \$7 : " A- 1, /, n

"E) 1&#"&*8 web 8 FTP, #9*8: "*" : *&6 A7*--%&&& %\$: *7 &"A*#, 6/A, B *7=) 2#, 4"\$,) *,) FreeBSD A7/A- 1, /, 3 -%%, 3 4¹, #"\$67 1/%, E"68: "/ *7 7#=#7 0/7 : 73.

>, ") 7\$: . &*, . 547 *96 16") 47*/A?6 2/A7/94- *96 A7/ *96 72"/?6 =#8: &3 "\$67/ *, "1+4"6, 1#- 047 1,) 17SJ"/ 4"0-%, #+%, , /2/7\$*"#7 0/7 4"0-%7 5#07 %, 0/: 4/A, B. @/ -2"/"3 =#8: &3 1,) "\$67/ 71, 2"A*53 0/7 A?2/A7 1,) "6: 947*?6"*7/: *, FreeBSD "\$67/ , / 17#7A-*9:

1. L -2"/7 =#8: &3 BSD. () *8 & -2"/7 "\$67/ & 1#, */4+*"#&, %+09 *&3 /2/7\$*"#&3 "=9#&3 1"#!/, #/: 4, B3" 1B: &3 1,) 5="/ A7/ *&3 2) 67*+*&*73 =#8: &3 *,) A?2/A7 7A+4& A7/ 0/7 "4¹, #/A, B3 : A, 1, B3. L @4- 27 *,) FreeBSD 2"6 7¹, . 7##B6"/ *5*, /,) "\$2,) 3 =#8: & *,) 1&07\$,) A?2/A7. >, 76*\$ "*, 4-%/: *7, "6. 7##B6"/ * & =#8: & *,) A?2/A7, 71, B 5*: /) 1- #="/ 1/. 76+*&*7 , #/: 456, / "4¹, #/A, \$67 :) 6"/: 15#,) 6 4" * & : "/#- *,) 3 : *&6 76- 1*) E& *,) FreeBSD.

2. L -2"/7 GNU General Public License, 8 "GPL". 7) *8 & -2"/7 2"6 "\$67/ *+: , 2&4, 1/%83 "1"/28 =#"/-J"*7/ 5E*#7 1#, : 1- . "/7 7¹+ , 1, /, 628¹, "*" =#&: /4, 1, /"\$ * , 6 A?2/A7 0/7 "4¹, #/A, B3 : A, 1, B3, 7%%- "1"/28) 1- #="/ 567 4"0-%, : ?47 1&07\$,) A?2/A7, *, , 1, \$, 2/7654"*7/ 4" 7) *8 * &6 -2"/7 A/ 7¹+ *, , 1, \$, "E7#*/+47: "*" (4"*70%9**/: *83, assembler, 1#, 0#- 447*7 4, #1, 1, &: &3 A"/456,) A^1.), . 7 8*76 A- 193 =7J+ 67 4& 2"=+47: "*" A74\$7 7%%708 : " *5*, /, A?2/A7. @ A?2/A73 4" -2"/7 GPL 2/7654"*7/ +493 : " 2/A+ *,) E"=9#/: *+ 45#, 3 *,) 1&07\$,) A?2/A7 *,) FreeBSD, A-*9 7¹+ *,) 3 A7*7%+0,) 3 /sys/gnu A7/ /usr/src/gnu. G*: / "\$67/ "BA, %, 67 E"=9#\$: "/ A76"\$3 7¹+ *, 6 A?2/A7 *,) FreeBSD +%7 *7 45#& 4" -2"/7 GPL, +*76) 1- #="/ %+0, 3 67 0\$6"/ *5*, /, 3 2/7=9#/: 4+3.

@/ :) 6"/: 1, #53 A?2/A7 4" , 1, /728¹, "*" -%&& -2"/7 1#5¹"/ 67 1"#- : ,) 6 7¹+ 1, %B 1#, : "A*/A+ 5%"0=, 1#/6 7¹, 17: \$,) 4" 76) 1- #="/ %+0, 3 67 "6: 947*9., B6 4" *, FreeBSD. @/ :) 6"/: 1, #53 4" /2/7\$*"#7 7) : * &#, B3 "4¹, #/A, B3 1"#!/, #/: 4, B3 7¹, ##\$1*, 6*7/ :) 68. 93 =9#&3 1, %B : A5' &, 7%%- , / 2&4/,) #0, \$ *96 7%%70?6 8 *,) :) 0A"A#/456,) A?2/A7 4¹, #, B6 1- 6*7 67 2/7654,) 6 */3 7%%7053 *,) 3 45: 7 7¹+ *7 2/A- *,) 3 A76-%/7 2/76, 483 A7/ "1/A, /696\$73.

F/7 67 , #\$: "*" +*/ A- 1, /, 2/A+ : 73 5#0, 1&07\$,) A?2/A7 2/7654"*7/ 4" *,) 3 +#,) 3 4/- 3 -2"/73 "*B1,) BSD" 4¹, #"\$*" 67 :) 4¹"#/#- <"*" : *&6 7#=#8 *96 7#=#96 1&07\$,) A?2/A7 *, 17#7A-*9 A"\$4"6, , 76*/A7. /: *?6*73 *, A"\$4"6, 4"*7EB *96 %6 4" */3 A7*--%&&&"3 1%&#, 1, #"\$3:

```
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G67 76*\$0#71, 7)*, B *,) A"/456,))¹-#="/ :*, 7#="\$, /usr/shared/examples/etc/bsd-style-copyright, ,¹+* 4¹, #"\$* 67 *, 76*/0#- 1"* 7¹+ "A"\$A- . " 1, #- ¹,) =#"/-J"*7/.

2.5. H) D6, +, , I ?%BC D =) C&>, &9 &+* @%, 54B+" *

U- . " 29#"- ¹,) 4¹, #"\$* 67 A- 6"* :*, 5#0, *,) FreeBSD "\$67/ ") ¹#+: 2"A*&. (A+47 A7/ & ¹/, 4/A#8 ¹#, : 1, #- 4¹, #"\$ 67 5="/ 4"0-%& : &47: \$7 0/7 567 5#0, *, , ¹, \$, <7: SJ"*7/ : *&6 ". "%, 6*/A8 "#07: \$7, +¹93 *, 2/A+ 473. M/2/A- , / ¹#, : 1, #53 : ") %/A+ "\$67/ ¹, %B : &476*/A53, 71, B 5*:/ 473 2\$6"*7/ & 2) 67*+*&*7 67 "¹"A*\$6,) 4" *&6) ¹, : *8#/E& *,) FreeBSD 0/7 *,) %/A+ 7) *+ - A- */ ¹,) 4¹, #"\$ 67 4&6 "\$67/ "BA, %, 76 ¹#5¹"/ 67 70, #- : ,) 4" A- . " A, 44- */) %/A, B 4+6, / 473.

2.5.1. H) 96, +%B(- @8) \$(-

L , #0- 69: & FreeBSD Foundation "\$67/ 5673 4& A"#2, : A, ¹/A+3 : B%, 0, 3, , , ¹, \$, 3 5="/ /2#). "\$0/7 67 ¹#, 9. 8: "/ *, 5#0, *&3 @4- 273 *,) FreeBSD. W+09 *&3 6, 4/A83 1B: &3 *,) :) %)+0, ,) & , #0- 69: & ¹7#5="/ 4"#/A53 1, #, %, 0/A53 "%71#B6: "/3 : */3 L69456"3 !, %/*"\$3 A7/ ¹/, :) 0A"A#/4567 : *&6 ¹, %/*"\$7 *,) Colorado. @/ 29#"53 : *&6 , #0- 69: & "A¹\$¹*,) 6 7¹+ *,) 3 1+#,) 3 ¹,) ¹#5¹"/ 67 1%&#?: "/ A- ¹, /, 3 : */3 L69456"3 !, %/*"\$3á¹/. 76+6 A7/ : " - %%" 7 45#&.

@/ 29#5"3 : 73 4¹, #, B6 67 : *7%, B6 : " 4, #18 "4<- : 47*, 3, : * & 2/"B.) 6: &:

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3980 Broadway Street
STE #103-107
Boulder CO 80304
USA

L , #0- 69: & 4¹, #"\$ ¹%5, 6 67 2"="\$ A7/ 29#"53 45: 9 2/A*B,) 7¹+ *, : B: * & 47 PayPal. (6 "62/715#": * 67 A- 6"* A- ¹, /7 29#" - , ¹7#7A7%, B4" E"A/68: * 7¹+ * &6 /: *, : "%\$27 * & 3 FreeBSD Foundation.

! "#/: : +*"#"3 ¹%&#, 1, #"\$ 3 0/7 * &6 , #0- 69: & FreeBSD Foundation 4¹, #"\$* 67 <#"*\$" : * & 6 767A, \$69: & The FreeBSD Foundation [Introduction](#). L "¹/A, /696\$7 4" * &6 , #0- 69: & 4¹, #"\$ 67 0\$6"/ A7/ 45: 9 &%"A*#, 6/A83 7%&&, 0#71\$73 : * & 2/"B.) 6: & bod@FreeBSDFoundation.org.

2.5.2. @8) \$(- I ?%B*J

L @4-27 (6-1*)E&3 *,) FreeBSD 25="*7/ A- . " 29#"-)%/A, B 0/7 *&6 , 1, \$7 4¹, #"\$67 <#"/ A-¹, /7 A7%8 =#8: &. (6 "62/715#": *" 67 473 29#\$: "*" A-¹, /,)%/A+, 17#7A7%, B4" "1/A, /6968: "*" 4" *&6 @4-27 C/7="\$#/: &3 *96 C9#"?6.

2.5.3. @8) (\$- =) C&>, &9- &+* @%, 54B+" *

! -6*7 "\$67/ =#8: /4, 67 5=,) 4" A7/6, B#/7 mirror sites 0/7 *, FTP, *, 6 /: *+*, 1+ 473 8 *, [cvsup](#). (6 .5%"*" 67 "0A7*7: *8: "*" 567 *5*, /, mirror, 17#7A7%, B4" 2"\$*" *o -#. #, [Mirroring FreeBSD](#). MA"\$.7 <#"S*" 1"#/: : +*"#"3 1%&#, 1, #S"3.