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;link:http://hi.baidu.com/justear
;copy the NASM assembler, and use the command
;nasm.exe -f bin boot.asm
;Date:2010年05月14日
;安装方法：
;将原始MBR拷贝到第二扇区，并将本程序编译生成的二进制代码拷贝到第一扇区，另外请确
认第一扇区的分区表信息
;与原始MBR的分区表信息完全相同，不同机器分区表都不尽相同
;password：kevin

;=====================================================================
CPU 486
BITS 16

        xor ebx,ebx
        mov ds,bx
          mov ax,[0x413]                ;40:13,BIOS数据区保存常规的内存大小,单位:KBs.
          and al,0xfc                                   ;要求分配的物理内存地址,以页作为基
地址
        sub ax,4
        mov [0x413],ax              ;开辟一段内存，实现程序的驻留
        shl ax,0x6                  ;bx *= 1024 / 16   (KBs->线性地址=KBs*1024,段:除以16)
        mov es,ax                   ;存储段地址

        mov si,0x7c00               ;拷贝代码到驻留内存中执行
        xor di,di                  ;偏移地址为0
          mov cx,0x100                ;拷贝512
        rep movsw

          mov ax,0x201
        mov cl,0x2
        cdq                           ;Convert Double to Quad (386+)把edx扩展为eax的高位，
也就是说变为64位。

        push es
          push word password
        retf
;=========================================================================
password:                               ;校验密码
                MOV SI,ShowAuthorMessage
                      CALL SHOWMESSAGE
                      mov si,ShowEnterMessage
                      CALL SHOWMESSAGE
                      CALL GETKEY
                      cmp cx,PassWordLength
                      je bootloader
again:                                                ;第二次校验密码
                      mov si,ShowError
                      call SHOWMESSAGE
                      mov si,ShowEnterMessage
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                        CALL SHOWMESSAGE
                        CALL GETKEY
                        cmp cx,PassWordLength
                        je bootloader
lasttime:                                         ;最后一次校验密码
                        mov si,ShowLastError
                        call SHOWMESSAGE
                        mov si,ShowEnterMessage
                        CALL SHOWMESSAGE
                        CALL GETKEY
                        cmp cx,PassWordLength
                        je bootloader
wrong:                                              ;登陆失败
                        mov si,ShowByeBye
                        CALL SHOWMESSAGE
                        jmp $

bootloader:                                 ;校验密码成功，开始登陆

                        mov si,ShowWelcome
                        call SHOWMESSAGE
                        CALL GETENTER

          mov es,dx
          mov eax,0x201
          mov ecx,02h                 ;读第二扇区的原始 MBR 引导开机
          mov edx,0x80
          mov ebx,0x7c00
          int 0x13

          popad
          pop ds
          pop sp

           jmp 0x0:0x7c00       ;jmp to original mbr from hard drive
;=====================================================================
;=====================================================================
SHOWMESSAGE:
                  mov bx,0007h                                   ; Page Number = 0,
Attribute = 07h
                        mov ah,0Eh                                  ; Function 0Eh:
Teletype Output
                        cs lodsb                                            ; load
the first character
Next_Char:
                        int 10h
                        cs lodsb                                 ; al = next character
                        or al,al                                 ; last letter?
                        jnz Next_Char                               ; if not print next
letter
RETURNBACK:
                        ret
;============================================================
GETKEY:
                        XOR CX,CX
LOOP:
                        MOV AH,0
                        INT 16H
                        mov bl,al
                        AND BX,0xFF
                        CMP AL,0DH                                    ;判断是否 Enter 键
                        JZ RETURNBACK
                        ADD CX,bx                                     ;存入 CX 中
                        MOV AL,2AH
                        MOV BX,07H
                        MOV AH,0EH
                        INT 10H                                       ;显示*号，继续等待
输入
                        JMP LOOP
;=============================================================
GETENTER:                                              ;判断是否 Enter 键，如果是则返
回，若不是继续等待输入
                        MOV AH,0
                        INT 16H
                        AND AX,0xFF
                        CMP AL,0DH
                        JNZ GETENTER
                        RET
;==============================================================
ShowAuthorMessage db     10, 13, "Author:sbha0909@yahoo.com.cn", 0;
ShowEnterMessage   db     10, 13, "Enter PassWord:", 0
ShowError          db     10, 13, "wrong password!...Try again", 0
ShowLastError      db     10, 13, "wrong password!...Try Last Time", 0
PassWordLength     EQU    021DH     ;"lenght of 'kevin'"
ShowByeBye         db     10, 13, "Sorry...Perhaps this is not your computer!", 0
ShowWelcome                  db      10, 13, "Welcome bingger...!Press Enter to load Windows",
0
;==========================================================================

CodeEnd EQU $

times 510-($-$$)    db 0                        ;填充 00h
Boot_Signature               dw    0AA55h
;=======================================================================
;End，use nasm.exe -f bin boot.asm 编译生成 bin 文件就可以在安装程序中使用
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