

Technical Note OS525

System Error Handler Q&As

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Disabling Macintosh force quit option

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Is there a way to disable the force quit option from System 7?

The force quit is handled by calling `SysErr` with an error code (or selector) of 20002 (0x4E22). The error code is passed in register `D0`. A simple patch to this trap, and a check for that selector will allow you to abort its function:

```

***** DontForceQuit *****
        INCLUDE      'traps.a'
        INCLUDE      'SysEqu.a'
        INCLUDE      'SysErr.a'

kSysError EQU $A9C9

PatchIt   PROC          EXPORT      ;Apps invoke this by calling PATCHIT() in C;

        IMPORT      MySysError      ;Trap patch code
        IMPORT      OldSysError     ;Pointer to original Trap Code

; This trap patcher leaves the patch in the app heap
; it will be unpatched when the app quits. For a persistent
; patch, the patch must be installed at INIT time in the system heap

        lea         OldSysError,a1 ;get the address of the pointer saver
        move.w      #kSysError,d0  ;now get address of SysError routine
        _GetTrapAddress ,NEWT00L
        move.l      a0,(a1)        ;save it for later
        move.w      #kSysError,d0  ;set up trap num
        lea         MySysError,a0  ;set up new trap address
        _SetTrapAddress ,NEWT00L   ;install the patch
        rts                    ;exit

        ENDP

MySysError PROC          EXPORT

        IMPORT      OldSysError

        cmpi.w      #20002,d0      ;first, check for the right selector
        bne.s       PassItOn      ;if not ours, let the real SysError have it
        rts                    ;if selector matches, return to sender

PassItOn

        move.l      OldSysError,-(sp) ;leave all registers unmolested
        rts

        ENDP

OldSysError PROC          EXPORT

        DC.L        0

        ENDP
        END

```

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