

Protecting against soft-resets

When the C64 gets a soft-reset signal, the first thing it does is check for an EPROM at \$8000 (kernel routine [\\$FD02](#)). We can take advantage of this routine to redirect resets to our own code.

```
* = $0900
sei
lda #$c3 ;the string "CBM80" at $8004 is used to check 8-ROM
sta $8004
lda #$c2
sta $8005
lda #$cd
sta $8006
lda #$38
sta $8007
lda #$30
sta $8008
lda #<reset ;redirect the vector at $8000 to our own code
sta $8000
lda #>reset
sta $8001
main
inc $d020 ;just something to look at
jmp *-3

reset
lda #$2f ;reset data-direction register, otherwise the system won't start
correctly
sta $00
jsr $e5a8 ;optional, refresh the VIC
jmp main ;go back to main code
```

Now try soft-resetting. Instead of going back to the basic screen, instead you'll see the inc \$d020 effect.

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