

This jump at address 405E11 jumps over all the piece of code that tells us that we are registered. So nopping this jump away would make us display the nice registered dialog box :-)
But luckily we worked through the previous tutorial. and we first try to analyze this code.

```

//////////////////////////////////// Code snip //////////////////////////////////////
call 409670      ; isregistered ?
test al, al     ; result of the call is in eax :-)
                ; ( al is the lower part of eax, not important now)
je              ; if eax = 0 then jump ! if eax is 1 don't jump !
//////////////////////////////////// Code snip //////////////////////////////////////

```

Well ... this code is clear not ?

The call checks the entered serial. And if the serial is ok, it returns 1 in eax, else it returns a zero in eax.

Let's trace into the call at address 409670.

```

//////////////////////////////////// Code snip //////////////////////////////////////
ADDRESS  MACHINE CODE      ASSEMBLER INSTRUCTIONS

* Referenced by a CALL at Addresses:
|:004014BF      , :00405E07
|

* Possible Reference to Dialog: DialogID_00CB, CONTROL_ID:00FF, ""
|
:00409670 6AFF                push FFFFFFFF
:00409672 68F8424400           push 004442F8
:00409677 64A100000000         mov eax, dword ptr fs:[00000000]
//////////////////////////////////// Code snip //////////////////////////////////////

```

And yes ... We were right :-)

This call is referenced twice. Once at startup and once while entering the serial :-)

Step 4: Changing the original program...

Since we analyzed the jumping mechanism carefully, we can change the original program.

Open the program in hiew after making a backup copy of it.

Get to the beginning of the call at address 409670.

Change the beginning of the call into the following :

```

//////////////////////////////////// Code snip //////////////////////////////////////

mov eax, 1      ; 1 means serial is ok
ret            ; return to the caller.
//////////////////////////////////// Code snip //////////////////////////////////////

```

It will look like the following:

```

//////////////////////////////////// Code snip //////////////////////////////////////
ADDRESS  MACHINE CODE      ASSEMBLER INSTRUCTIONS
00009670: B801000000           mov     eax,00000001
00009675: C3                  retn
00009676: 0064A100           add     [ecx][00000],ah
//////////////////////////////////// Code snip //////////////////////////////////////

```

Save your patched program and exit hiew.

Step 5: Testing your cracked program...

Run Leech. It will still tell you that you are unregistered in the about box.
Register it with any number, and it will happily accept your serial :-)

Do not forget to close the program and restart it. You will see that it is still happy with the provided serial :-)