

# Forum:[Hack Forums](#)

Thread: [Memory reading and writing](#)

**Mr. Nihilous** - August 14, 2020, 8:18 am

So I've been looking into cheat engine and how it works and was wondering how I could go about writing up a python script that I could attach to a running process that reads from memory, can write to memory, get corresponding hex values and control the EIP. I know most standard debuggers do this but how does it work? What sort of modules are necessary? Any books or resources that could teach me about this?

Bonus question:

Is this how aimbots work in popular fps games? Do they read from memory to get the location of the opponent's head?

**h0lyl337** - August 14, 2020, 9:26 am

if you google "python game hacking" you will find some good guides, check out the counter strike ones. Pywin32, Ctypes, and Pymem, are modules you would probably use.

**Mr. Nihilous** - August 14, 2020, 9:35 am

Thanks mate, cheat engine is extremely versatile, I see that I can get real time memory access to a virtual machine. I plan on reading variables from memory and seeing how I can edit them as well. I wanna see if I can automate a few things with some apps on an android for practice, I know I could just do clicks but I think it would be a lot more sophisticated to read from memory addresses instead. I just can't attach any scripts to cheat engine, so I look to use python in order to get access to and manipulate those variables.

**tsuki** - August 14, 2020, 11:44 am

You can use the pymem Python module for this (or even make your own if you're more ambitious), but why Python? You're better off learning C and windows internals.

**Mr. Nihilous** - August 14, 2020, 2:33 pm

(Aug 14, 2020 11:44 AM)tsuki Wrote: [\[CITE\]](#) You can use the pymem Python module for this (or even make your own if you're more ambitious), but why Python? You're better off learning C and windows internals.

Good point, I was thinking the same thing with regards to C. I'm alright in python with a little experience in C. I've managed already to access as well as write to memory inside of a virtual machine running android. I've been tinkering with pymem all afternoon learning the ins and outs of the various modules. Pymem allows for assembly injection as well but I know C is pretty well suited for that sort of thing.