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Thread: [Intel x86 NASM Using fgets](#)

splutter - June 11, 2015, 3:57 am

So I have a piece of code and I'm attempting to scan in a string with a call to fgets. It's not reading anything in and the return value is NULL. May someone tell me how I could check my error value or teach me how I should approach this?

My code goes something like this:

```
Code ...
push DWORD 0x0    ; STDIN is 0
push BYTE 0xA     ; Max size is 10
push DWORD buf    ; load address of buffer for input
call _fgets
add esp 0xC       ; reset stack pointer
cmp eax, 0x0      ; check return value in eax
jz  err          ; jump to error address if NULL
...
```

Only3 - June 11, 2015, 11:05 am

```
char fgets ( char str, int num, FILE * stream ); http://www.cplusplus.com/reference/cstdio/fgets
push stream
push num
push str
call fgets
```

Mr. Dr. Prof. Patrick - June 11, 2015, 1:28 pm

STDIN is not 0, STDIN is a macro and there is a function you can use to find the address of STDIN

```
Code push eax
call __iob_func    ; returns an array containing addresses of Files like stdio, stdout
push eax           ; STDIN is the first in the array that is returned giving it position 0
push BYTE 0xA     ; Max size is 10
push DWORD buf    ; load address of buffer for input
call _fgets
```

Masm4ever - June 12, 2015, 10:54 am

Shorter (but you need a modern assembler):

```
invoke crt_fgets, addr buffer, sizeof buffer, rv(crt__p__iob)
```