

Únete a la comunidad de Stack Overflow

Stack Overflow es una comunidad de 7.4 millones de programadores como tú que se ayudan mutuamente.

Únete a ellos, sólo te llevará un minuto:

[Registrarse](#)

getlogin() c function returns NULL and error "No such file or directory"

I have a question regarding the getlogin() function (). I tried to get the login name of my account from the c program using this function. But the function returns a NULL. Using perror shows that the error is "No such file or directory".

I don't get what is the problem. Is there a way to get user login name in a program.

Here is a sample code:

```
#include <stdio.h>
#include <unistd.h>

int main()
{
    char *name;
    name = getlogin();
    perror("getlogin() error");
    //printf("This is the login info: %s\n", name);
    return 0;
}
```

And this is the output: getlogin() error: No such file or directory

Please let me know how to get this right.

Thanks.

[c](#) [programming-languages](#)

edited Jan 25 '11 at 0:43



Tim Post ♦
25.8k 13 86
152

asked Jan 24 '11 at 17:38



yaami
318 4 13

- 1 welcome to SO. You'll notice on this site we don't mark threads solved with [solved]. Next to everyone's answer, there's a tickbox you can use to mark the post that "answered" your question as the answer. If none did, you have two choices - post a full solution in answer to your own question or choose the answer that's closest, depending on how far apart the two are. – user257111 Jan 24 '11 at 18:57

5 Answers

getlogin is an unsafe and deprecated way of determining the logged-in user. It's probably trying to open a record of logged-in users, perhaps utmp or something. The correct way to determine the user you're running as (which might not be the same as the logged-in user, but is almost always better to use anyway) is getpwuid(getuid()) .

answered Jan 24 '11 at 17:38



R..
136k 17 213
469

- 3 Thank you That worked for me. Here is the sample code I used. #include <stdio.h> #include <pwd.h> int main() { char *name; struct passwd *pass; pass =

```
getpwuid(getuid()); name = pass->pw_name; printf("This is the login name: %s\n",
name); return 0; } – yaami Jan 24 '11 at 18:09
```

Maybe you could edit the answer to include a properly formatted example, like yaami added? – nmz787 Feb 7 at 20:04

Here is a good link I found explaining that it may not work: [getlogin](#)

Here is a quote from it:

Unfortunately, it is often rather easy to fool `getlogin()`. Sometimes it does not work at all, because some program messed up the `utmp` file

answered Jan 24 '11 at 17:46



[Nick Banks](#)

2,611 4 26 59

It works fine for me if I comment `perror` call.

From `man` :

`getlogin()` returns a pointer to a string containing the name of the user logged in on the controlling terminal of the process, or a null pointer if this information cannot be determined.'

So you should do:

```
#include <stdio.h>
#include <unistd.h>

int main()
{
    char *name;
    name = getlogin();
    if (!name)
        perror("getlogin() error");
    else
        printf("This is the login info: %s\n", name);
    return 0;
}
```

answered Jan 24 '11 at 17:46



[Elalfer](#)

4,747 11 19

That is just not safe ... – [Tim Post](#) ♦ Jan 24 '11 at 17:55

What do you mean not safe ? Execution or system security? – [Elalfer](#) Jan 24 '11 at 18:00

System security .. (sorry for being ambiguous), It is just too easy to fiddle with / break `utmp` . It is much safer to use a function that gets this information from `/etc/passwd`, and less prone to breakage if `utmp` is borked. – [Tim Post](#) ♦ Jan 24 '11 at 18:03

1 I agree, but it wasn't a question about how to trick `getlogin()` – [Elalfer](#) Jan 24 '11 at 18:05

Thanks for your answer. But for me the function does not give the login name. It just gives back null always. So I used the `getpwuid()` function suggested by R.. and worked as I wanted. – [yaami](#) Jan 24 '11 at 18:08

According to [the man page](#) the error (`ENOENT`) means:

There was no corresponding entry in the `utmp`-file.

answered Jan 24 '11 at 17:46



[DarkDust](#)

69.6k 10 140
180

I typically use `getpwent()` along with a call to `geteuid()` and `getegid()`. This gives me all of the information that I might possibly need to know (at least as far as `/etc/passwd` has to offer) and tells me if I'm running as `setuid` / `setgid`, which is helpful when programming defensively.

I have written several programs for my company that outright refuse to work if someone tries to `setuid` them and change ownership to `root`, or refuse to run as `root` if being called by a system user (`www-data`, `nobody`, etc).

As others have said, reading from `utmp` is a very bad idea for this purpose.

[edited Jan 24 '11 at 18:02](#) [answered Jan 24 '11 at 17:!](#)



[Tim Post](#) ♦

25.8k 13 86
152

