
Subject: Re: Different getenv("PATH") and \$PATH on macos

Posted by [fudadmin](#) on Thu, 05 Jan 2023 23:05:25 GMT

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Novo wrote on Thu, 05 January 2023 17:47fudadmin wrote on Wed, 04 January 2023 23:43Novo wrote on Thu, 05 January 2023 01:23Relevant information: How to set PATH for Finder-launched applications

I had seen that link before I posted but I could not to digest. That's why I posted here. It is not about setting the PATH. It is about getting the PATH. We are not going to ask every theide user to set "sudo launchctl config user path", aren't we? Moreover, the PATH is set. I can get it on terminal with 'echo \$PATH' without problems. The questions is - how to get it programatically with upp the right way. getenv used inside ide is the wrong way.

P.S. for some reasons this doesn't work:

```
String path = Sys("echo $PATH");
```

```
//gives path="$PATH";
```

echo is excluded...

More info on this <https://stackoverflow.com/questions/36326868/getting-environment-variable-path-in-linux-using-c-in-eclipse>

It was supposed to be a hint.

Macos doesn't seem to run a login shell when you log into an account. This is why PATH is not set.

If you check MacOS Terminal settings you'll find "on launch" setting. By default it runs a login shell. Basically, you log into system each time you launch a terminal :)

Related info:

man opendirectoryd

Open Directory forms the foundation of how Mac OS X accesses all authoritative configuration information

(users, groups, mounts, managed desktop data, etc.). This allows use of virtually any directory system

via Apple and third party modules.

PATH shouldn't be used with MacOS GUI apps, IMHO.

I really appreciate your answers, Novo. It is always good to have more opinions and it be really interesting to find out

what function Apple uses for their needs. But.

Quote:

This is why PATH is not set.

No. The PATH is set. It is only NOT correctly retrieved with the getenv("PATH") function. Or let's say it is the other PATH set.

But in Terminal one can get the correct one. And I tested it.
And it is also possible to get the correct one with what Oblivion correctly corrected:

```
Sys("sh -c `echo $PATH`");
```

Do any opendir API functions/classes exist?
Or anything else what could correctly replace getenv? Or \$PATH?
Or any code which is more politically and/or programatically correct than this:

```
Sys("sh -c `echo $PATH`");
```

?
