
Subject: Re: GetExeFilePath() in Linux
Posted by [guido](#) on Mon, 20 Nov 2006 06:55:26 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

I think there is a simpler implementation for POSIX.
Acrobat Reader, OpenOffice, Firefox, ROX-Filer.. achieve relocatability by means of a simple shell launcher script:

```
#!/bin/sh
```

```
PROG=SampleApp
```

```
APP_DIR=`dirname "$0"`  
APP_DIR=`cd "$APP_DIR";pwd`; export APP_DIR
```

```
exec "$APP_DIR/SampleApp" "$@"
```

Then, from inside the app simply
`app_dir = strdup(getenv(APP_DIR));`

Now I thought, why not port this shell script to C++?:

```
String GetExeFilePath()  
{  
    static String exepath;  
    ONCELOCK {  
        String x = Argv0__;  
        if(IsFullPath(x) && FileExists(x))  
            exepath = x;  
        else {  
            String cwd = GetCurrentDirectory();  
            String filename = GetFileName(x);  
            x = x.Left(x.ReverseFind('/'));  
            chdir(ToSystemCharset(x));  
            exepath = GetCurrentDirectory() + "/" + filename;  
            chdir(ToSystemCharset(cwd));  
        }  
    }  
    return exepath;  
}
```

I don't know if there are tricky circumstances of the environment that would break this, but so far it seems to be working.

Guido
