

Re: Error when I try to open cdrom programmatically

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.framework.windowsforms/2006-09/msg00508.h>

- *From:* "Chris Taylor" <chris_taylor_za@xxxxxxxxxxxxx>
 - *Date:* Wed, 27 Sep 2006 09:25:37 +0300
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Hi,

The problem is with your interop signature it should be more like the following

```
[DllImport("winmm.dll", EntryPoint = "mciSendStringA")]
private static extern long mciSendString(string lpstrCommand,
string lpstrReturnString, int uReturnLength, IntPtr hwndCallback);
```

long is 64bit, and the function is expecting 32bit arguments, int is fine here unless you expect a ridiculously long string.

In you calling code you are expecting a 127 characters, you should precreate the string buffer to contain space for 127 characters

```
returnstring = new string(' ', 127);
```

In fact I would rather use a StringBuilder in the signature.

```
[DllImport("winmm.dll", EntryPoint = "mciSendStringA")]
private static extern long mciSendString(string lpstrCommand,
StringBuilder lpstrReturnString, int uReturnLength, IntPtr hwndCallback);
```

in which case the returnstring is initialized as follows

```
returnstring = new StringBuilder(127);
```

Hope this helps

—

Chris Taylor

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"Victor" <[shigang1\(-at-\)21cn\(-dot-\)com](mailto:shigang1(-at-)21cn(-dot-)com)> wrote in message news:eSIyT5d4GHA.3556@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Re: Error when I try to open cdrom programmatically

Hi guys

when i try to open my cdrom with "mciSendString" API Call. i get exception. but i have no idea how this happen. Can you guys give me some idea? Thanks

My code likes:

```
[DllImport("winmm.dll", EntryPoint = "mciSendStringA")]
private static extern long mciSendString(string lpstrCommand,
string lpstrReturnString, long uReturnLength, long hwndCallback);
```

```
private long retvalue;
private string returnstring = string.Empty;
```

```
private void button1_Click(object sender, EventArgs e)
{
    CDControl(true);
}
```

```
private void CDControl(bool action)
{
    if (action)
    {
        // open the CDROM
        retvalue = mciSendString("set CDAudio door open",
returnstring, 127, 0);
    }
    else
    {
        // Close the CDROM
        retvalue = mciSendString("set CDAudio door closed",
returnstring, 127, 0);
    }
}
```

The exception is

PInvokeStackImbalance was detected

Message: A call to PInvoke function

'WindowsApplication1!WindowsApplication1.Form1::mciSendString'

has unbalanced the stack. This is likely because the managed PInvoke signature does not match the unmanaged target signature.

Check that the calling convention and parameters of the PInvoke signature match the target unmanaged signature.