

Re: szPname As String * MAXPNAMELEN (How to declare)

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.vb/2004-10/1574.html>

From: Tom Shelton (*tom_at_YOUKNOWTHEDRILLmtogden.com*)

Date: 10/07/04

Date: Thu, 07 Oct 2004 00:58:35 -0700

On 2004-10-07, Sakharam Phapale <sphapale@annetsite.com> wrote:

> *Hi Tom,*
>
> *I am using the structure "MIXERLINE" which includes structure "TARGET".*
> *I have used following statement*
> *mxl.cbStruct = Len(mxl)*
>
> *This should gives me 168 as length of structure mxl which is "MixerLine"*
> *type, but it gives me 68. It doesn't include the string variables.*
>
> *What is the reason?*
>

User Marshal.SizeOf... This will give you the marshaled length, instead of the .NET length. (Does that makes sense?)

> *I am also using following API function which fills detail of mixer control*
> *in mxl structure which includes short and full name.*
>
> *ret = mixerGetLineInfo(hMixer, mxl, MIXER_GETLINEINFOF_COMPONENTTYPE)*
>
> *ret comes as 11. Above function doesn't work.*
>

Are you declaring mixerGetLineInfo correctly? Should probably be:

```
Public Declare Auto Function mixerGetLineInfo Lib "winmm.dll" _
    (ByVal hmxobj As System.IntPtr, _
    ByRef pmxl As MIXERLINE, _
    ByVal fdwInfo As Integer) As Integer
>
><StructLayout(LayoutKind.Sequential, CharSet:=CharSet.Auto)> _
>
> Public Structure Target
>
```

microsoft.public.dotnet.languages.vb: Re: szPname As String * MAXPNAMELEN (How to declare)

```
> Public dwType As Integer
>
> Public dwDeviceID As Integer
>
> Public wMid As Integer
>
> Public wPid As Int16
>
> Public vDriverVersion As Int16
>
><MarshalAs(UnmanagedType.ByValTStr, SizeConst:=MAXPNAMELEN)> _
>
> Public szPname As String
>
> End Structure
>
```

According to MSDN, your wMid should also be Short or Int16. I would also verify the MMVERSION type – I'm assuming Int16 from the docs, but you never know...

```
>
>
><StructLayout(LayoutKind.Sequential, CharSet:=CharSet.Auto)> _
>
> Public Structure MIXERLINE
>
> Public cbStruct As Integer
>
> Public dwDestination As Integer
>
> Public dwSource As Integer
>
> Public dwLineID As Integer
>
> Public fdwLine As Integer
>
> Public dwUser As Integer
>
> Public dwComponentType As Integer
>
> Public cChannels As Integer
>
> Public cConnections As Integer
>
> Public cControls As Integer
>
><MarshalAs(UnmanagedType.ByValTStr, SizeConst:=MIXER_SHORT_NAME_CHARS)> _
>
> Public szShortName As String
>
```

Re: szPname As String * MAXPNAMELEN (How to declare)

microsoft.public.dotnet.languages.vb: Re: szPname As String * MAXPNAMELEN (How to declare)

```
><MarshalAs(UnmanagedType.ByValTStr, SizeConst:=MIXER_LONG_NAME_CHARS)> _  
>  
> Public szName As String  
>  
> Public tTarget As Target  
>  
> End Structure  
>  
>  
> Waiting for your respose.  
>  
> Thanks  
>  
> Sakharam Phapale  
>
```

The rest looks ok at first glance...

```
--  
Tom Shelton [MVP]
```