
Subject: Get volume name of shares ...

Posted by [dschoni](#) on Mon, 08 Feb 2021 21:11:02 GMT

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Is there a simple way to get the volume name of a share?

First I tried to use the SysInfo packages GetDriveInformation() from bazaar. But it seems to be rather old and does not work. If I compile it, I get errors:

SysInfo.h (274): error: no type named 'mt19937' in namespace 'std'.

I've got no idea, how to fix that. Basically I couldn't find any usefull method to get the required informations.

Best Regards, Daniel.

Subject: Re: Get volume name of shares ...

Posted by [dschoni](#) on Mon, 08 Feb 2021 21:31:11 GMT

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Well, it seems, I've got the solution

I've copied the whole GetDriveInformation(...) function to my code.

Best Regards, Daniel

P.S.

It's getting more and more interesting.

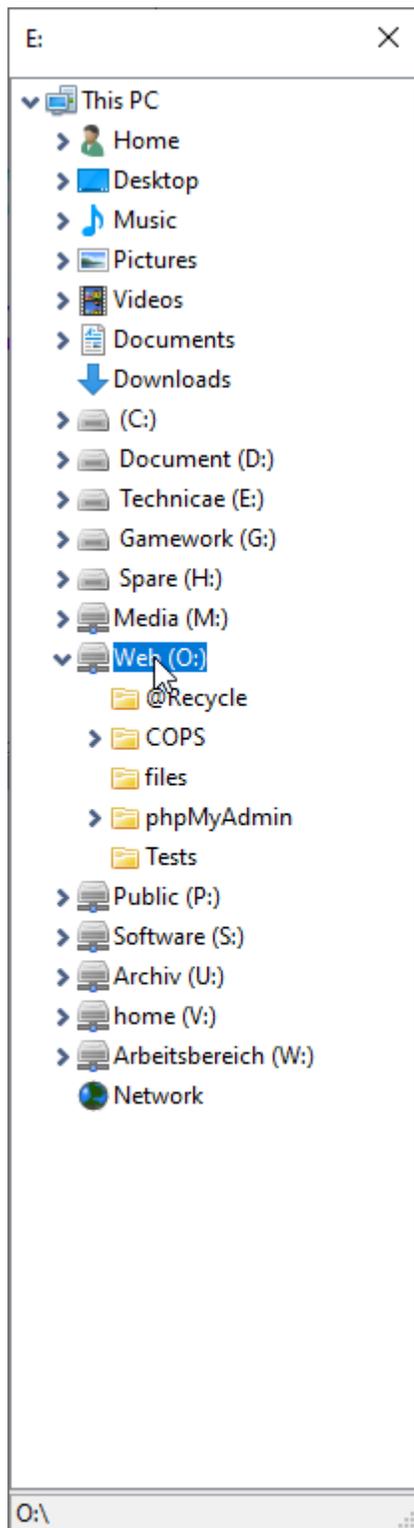
The GetDriveInformation is based on GetVolumeInformation, which is also used in

Path/FileSystemInfo::Find, but unfortunately this function does not read out the volume name.

I found also that the GetVolumeInformation function is part of winbase.h and fileapi.h, which both are included in Upp - this gives me ideas to work on ...

File Attachments

1) [Bild_2021-02-08_222948.png](#), downloaded 800 times



Subject: Re: Get volume name of shares ...
Posted by [dschoni](#) on Mon, 08 Feb 2021 22:18:56 GMT
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I'm using a tree and some modifications on the library files:

used mods

FileSel.h: adding

Image GetDirIcon(const String& s);

CtrlLib.h:

#define NEWSTYLE

TreeCtrl.cpp:1023

```
        if(yh >= 0 && yl < sz.cy) {
            int x = levelcx + levelcx * l.level + levelcx2 - org.x;
#ifdef NEWSTYLE
#else
            w.DrawRect(x, yl, 1, yh - yl, SColorShadow);
#endif
        }
```

TreeCtrl.cpp:1051

```
    if(w.IsPainting(0, y, sz.cx, msz.cy) && msz.cy > 0) {
        if (multiroot) {
            if(m.canopen || m.child.GetCount()) {
#ifdef NEWSTYLE
                Image im = m.isopen ? CtrlImg::SmallDown() : CtrlImg::SmallRight();
#else
                Image im = m.isopen ? CtrlImg::treeminus() : CtrlImg::treeplus();
#endif
                op -= CtrlImg::cross().GetSize() / 2;
                w.DrawImage(op.x, op.y, imgEmpty);
            }
        }
        else {
#ifdef NEWSTYLE
#else
            w.DrawRect(op.x, op.y, levelcx2, 1, SColorShadow);
#endif
            if(m.canopen || m.child.GetCount()) {
#ifdef NEWSTYLE
                Image im = m.isopen ? CtrlImg::SmallDown() : CtrlImg::SmallRight();
#else
                Image im = m.isopen ? CtrlImg::treeminus() : CtrlImg::treeplus();
```


I've got no idea, how to fix that. Basically I couldn't find any usefull method to get the required informations.

Best Regards, Daniel.
Hi dschoni

SysInfo is maintained and tested daily. Please tell me in what environment you have that error and I will solve it.

Thank you.

Subject: Re: Get volume name of shares ...
Posted by [mirek](#) on Wed, 10 Feb 2021 14:22:30 GMT
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dschoni wrote on Mon, 08 February 2021 22:11: Is there a simple way to get the volume name of a share?

First I tried to use the SysInfo packages `GetDriveInformation()` from bazaar. But it seems to be rather old and does not work. If I compile it, I get errors:
SysInfo.h (274): error: no type named 'mt19937' in namespace 'std'.
I've got no idea, how to fix that. Basically I couldn't find any usefull method to get the required informations.

Best Regards, Daniel.

Check `CtrlLib/FileSel.cpp:507`. `StdFileSystemInfo` is in Core...

Subject: Re: Get volume name of shares ...
Posted by [dschoni](#) on Wed, 10 Feb 2021 15:44:56 GMT
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Dear koldo

Quote:

SysInfo is maintained and tested daily. Please tell me in what environment you have that error and I will solve it.

I've just opened "bazaar/SysInfo_demo_gui", then compiled it (Execute button) on the freshly installed Upp TheIDE Version 15260 (CLANGx64 Debug).

My System:
Edition Windows 10 Pro

Version 20H2
Build 19042.746
Feature Experience Pack 120.2212.551.0

It throws me over 20 errors, one of it is the one with "mt19937".

Best Regards, Daniel

File Attachments

1) [Bild_2021-02-10_164312.png](#), downloaded 783 times

File	Line	Message (25 errors)
SysInfo/SysInfo.h	150	error: unknown type name 'Image'
SysInfo/SysInfo.h	155	error: unknown type name 'Image'
SysInfo/SysInfo.h	156	error: unknown type name 'Image'
SysInfo/SysInfo.h	157	error: unknown type name 'Image'
SysInfo/SysInfo.h	274	error: no type named 'mt19937' in namespace 'std'
SysInfo/ScreenGrab.cpp	15	error: no matching function for call to 'Window_SaveCapture'
SysInfo/ScreenGrab.cpp	622	error: no matching function for call to 'Window_SaveCapture'
SysInfo/ScreenGrab.cpp	632	error: no matching function for call to 'Window_SaveCapture'
SysInfo/SysInfo.h	150	error: unknown type name 'Image'
SysInfo/SysInfo.h	155	error: unknown type name 'Image'
SysInfo/SysInfo.h	156	error: unknown type name 'Image'
SysInfo/SysInfo.h	157	error: unknown type name 'Image'
SysInfo/SysInfo.h	274	error: no type named 'mt19937' in namespace 'std'
SysInfo/SysInfo.cpp	138	error: use of undeclared identifier 'GetVARIANT'
SysInfo/SysInfo.cpp	169	error: use of undeclared identifier 'Trim'
SysInfo/SysInfo.cpp	173	error: unknown type name 'StringParse'
SysInfo/SysInfo.cpp	173	error: use of undeclared identifier 'GetSystemFolder'
SysInfo/SysInfo.cpp	180	error: use of undeclared identifier 'Trim'
SysInfo/SysInfo.cpp	190	error: use of undeclared identifier 'Trim'
SysInfo/SysInfo.cpp	214	error: use of undeclared identifier 'Trim'
SysInfo/SysInfo.cpp	320	error: use of undeclared identifier 'WideToString'
SysInfo/SysInfo.cpp	321	error: use of undeclared identifier 'WideToString'
SysInfo/SysInfo.cpp	322	error: use of undeclared identifier 'WideToString'
SysInfo/SysInfo.cpp	404	error: use of undeclared identifier 'Trim'
SysInfo/SysInfo.cpp	2045	error: use of undeclared identifier 'Odd'

Subject: Re: Get volume name of shares ...
Posted by [dschoni](#) on Wed, 10 Feb 2021 17:08:57 GMT
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Thank you, mirek

Quote:Check CtrlLib/FileSel.cpp:507. StdFileSystemInfo is in Core...

I see, StdFileSystemInfo is in Core/Path.cpp, but the volume name is just private.

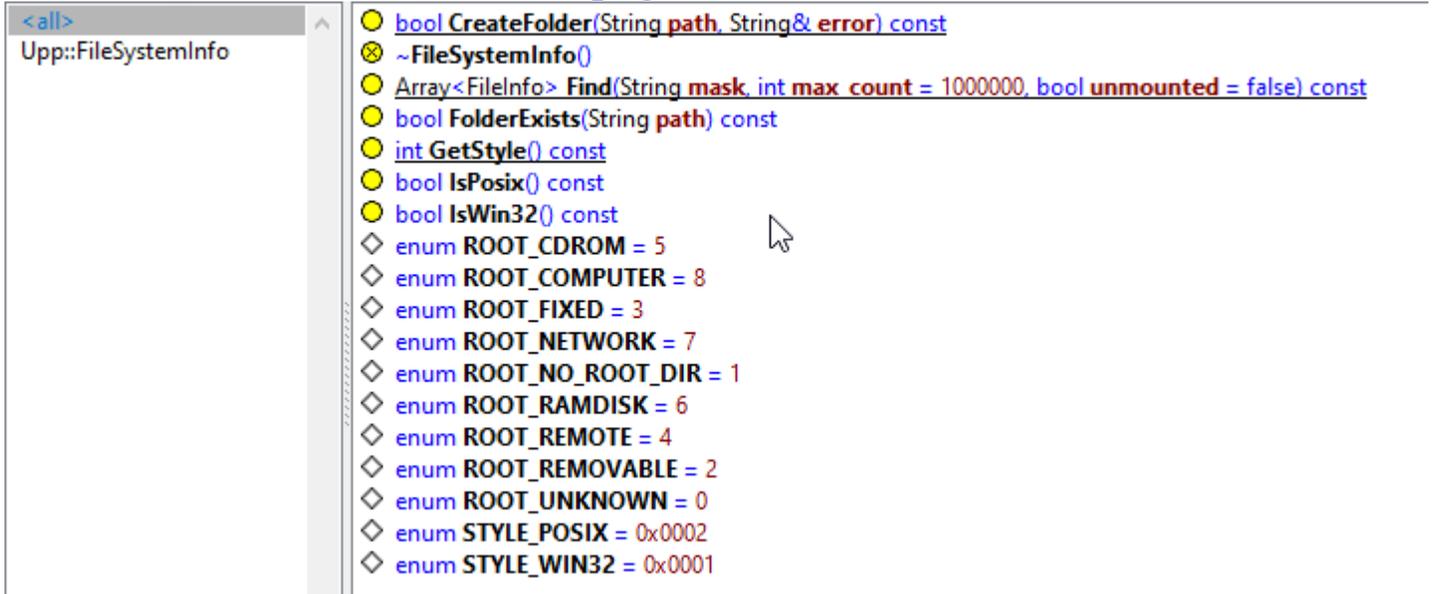
So it's required to use GetVolumeInformation directly, to get the desired information.

But thanks a lot, your answers do help me, to learn about the system.

Best Regards, Daniel

File Attachments

1) [Bild_2021-02-10_180254.png](#), downloaded 701 times



Subject: Re: Get volume name of shares ...

Posted by [koldo](#) on Wed, 10 Feb 2021 19:33:36 GMT

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dschoni wrote on Wed, 10 February 2021 16:44Dear koldo

Quote:

SysInfo is maintained and tested daily. Please tell me in what environment you have that error and I will solve it.

I've just opened "bazaar/SysInfo_demo_gui", then compiled it (Execute button) on the freshly installed Upp TheIDE Version 15260 (CLANGx64 Debug).

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It throws me over 20 errors, one of it is the one with "mt19937".

Best Regards, Daniel
Hello dschoni

This is really weird. My base system is similar to yours.
Does anybody could compile Bazaar/SysInfo under CLANG in Windows 10 to try to reproduce this error?
Thank you!

Subject: Re: Get volume name of shares ...
Posted by [mirek](#) on Wed, 10 Feb 2021 20:01:29 GMT
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dschoni wrote on Wed, 10 February 2021 18:08 Thank you, mirek

Quote: Check CtrlLib/FileSel.cpp:507. StdFileSystemInfo is in Core...

I see, StdFileSystemInfo is in Core/Path.cpp, but the volume name is just private.

Nope, you do Find with empty path and then you get it in FileInfo::root_desc.

Mirek

Subject: Re: Get volume name of shares ...
Posted by [koldo](#) on Thu, 11 Feb 2021 07:39:27 GMT
[View Forum Message](#) <> [Reply to Message](#)

dschoni wrote on Wed, 10 February 2021 16:44 Dear koldo

Quote:

SysInfo is maintained and tested daily. Please tell me in what environment you have that error and I will solve it.

I've just opened "bazaar/SysInfo_demo_gui", then compiled it (Execute button) on the freshly installed Upp TheIDE Version 15260 (CLANGx64 Debug).

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It throws me over 20 errors, one of it is the one with "mt19937".

Best Regards, Daniel

Dear dschoni

Reading the error list I find that:

- Although SysInfo calls Bazaar/Functions4U, it seems that your compiler cannot find Functions4U.h
- The line numbers of the errors in SysInfo.h don't match with the lines in the actual code

In summary, it may be that you are using an old version of SysInfo, and you do not have Functions4U in your sources. Please tell me from where you have installed Bazaar (SVN, UppHub, nightly builds).

Thank you for your report.

Subject: Re: Get volume name of shares ...
Posted by [dschoni](#) on Sun, 14 Feb 2021 12:52:39 GMT
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Dear koldo

Quote:In summary, it may be that you are using an old version of SysInfo, and you do not have Functions4U in your sources. Please tell me from where you have installed Bazaar (SVN, UppHub, nightly builds).

I've installed the stable release, posted on the website
[https://www.ultimatepp.org/www\\$suppweb\\$download\\$en-us.html](https://www.ultimatepp.org/www$suppweb$download$en-us.html)
This leads to SOURCEFORGE <https://sourceforge.net/projects/upp/files/> where I installed the latest release <https://sourceforge.net/projects/upp/files/latest/download>

So I used the Bazaar examples, like these were installed with Upp.

Best Regards, Daniel

Subject: Re: Get volume name of shares ...
Posted by [dschoni](#) on Sun, 14 Feb 2021 13:21:27 GMT
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Dear Mirek

Quote:Nope, you do Find with empty path and then you get it in FileInfo::root_desc.

This works on a fixed disk drive, but not on a network share.
I've tried:

```

void FolderTree::AddSystemPlaces(int id)
{
    Array<FileSystemInfo::FileInfo> root;
    FileSystemInfo fs;
#ifdef PLATFORM_WIN32
    root = fs.Find("", 1000, false);
    for(int i = 0; i < root.GetCount(); i++) {
        String desc = root[i].root_desc;
        String n = root[i].filename;
        if(n != "A:\\\" && n != "B:\\") {
#ifdef PLATFORM_WIN32
            if(*n.Last() == '\\')
                n.Trim(n.GetCount() - 1);
#endif
            String type;
            int maxName;
            if(desc.GetCount() == 0) {
                GetDriveInformation(n, type, desc, maxName, type);
                if (desc == "") desc << " " << t_("Local Disk");
            }
            desc << " (" << n << ")";
            AddPlace(id, GetDriveImage(root[i].root_style), root[i].filename, desc);
        }
    }
#endif

    if(GetSystemMetrics(SM_REMOTESESSION))
        for(int drive = 'A'; drive < 'Z'; drive++) {
            String path = Format("\\\\tsclient\\%c", drive);
            if(FindFile(path + "\\*.*)"
                AddPlace(id, path, Format(t_("%c on client"), drive));
        }
#ifdef PLATFORM_POSIX
    root = fs.Find("/media/*", 1000, false);
    for(int i = 0; i < root.GetCount(); i++) {
        String fn = root[i].filename;
        if(*fn != '.' && fn.Find("floppy") < 0)
            AddPlace(id, "/media/" + fn, fn);
    }
    AddPlace(id, "/", t_("Computer"));
#endif
}

```

After

```

String desc = root[i].root_desc;
String n = root[i].filename;

```

"desc" contains the value "Document" at my fixed disk drive "D:" which is the volume name.
"n" contains "D:\\".

If I go further to "M:", which is a network share and the volume name is "Media", i've got:
"desc" contains "".
"n" contains "M:\\".

This is why I've copied "GetDriveInformation" from the SysInfo-package to my code and used Quote:

```
GetDriveInformation(n, type, desc, maxName, type); if "desc" is empty.
```

After "GetDriveInformation" "desc" contains "Media".

Best Regards, Daniel

File Attachments

1) [Bild_2021-02-14_141628.png](#), downloaded 749 times

desc	[0] "", raw: { chr=171cc68 "", ptr=0??, wptr=0, qptr=0, v=171cc68, w=
filename	[0] "", raw: { chr=171fc68 "", ptr=0??, wptr=0, qptr=0, v=171fc68, w=
i	5 0x5
n	[3] "M:\\", raw: { chr=171cc48 "M:\\", ptr=5c3a4d??, wptr=5c3a4d, q
root	[12] {{ filename="C:\\", msdos_name="", root_desc="", length=Null
this	171db00->{ tool={ ii=0, item=[0] {}, lock=0, proc={ ptr=0 }, style=14
type	{ chr=0??, ptr=??, wptr=??, qptr=??, v=0, w=0, q=0, len=??, s=?? }

Subject: Re: Get volume name of shares ...
Posted by [koldo](#) on Mon, 15 Feb 2021 07:18:36 GMT
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Dear Daniel

As far as I can see, updated Bazaar can only be obtained from svn. Please try to download the packages from there, as UppHub is still in preparation.
Mixing updated U++ with old Bazaar packages may produce errors.

Subject: Re: Get volume name of shares ...
Posted by [mirek](#) on Mon, 15 Feb 2021 10:21:51 GMT
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For what is worth:

- I have checked UppHub SysInfo and it works without problems (so it should work in nightly build)

- I have also fixed FileSystemInfo::Find to return correct network volume names.
