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## Get file version and assembly version of DLL files in the current directory and all sub directories



I would like to be able to get the file version and assembly version of all DLL files within a directory and all of its subdirectories. I'm new to programming, and I can't figure out how to make this loop work.

I have this PowerShell code to get the assembly version (taken from a forum):

```
$strPath = 'c:\ADMLibrary.dll'
$Assembly = [Reflection.Assembly]::Loadfile($strPath)

$AssemblyName = $Assembly.GetName()
$Assemblyversion = $AssemblyName.version

And this as well:
```

\$file = Get-ChildItem -recurse | %{ \$\_.VersionInfo }

How can I make a loop out of this so that I can return the assembly version of all files within a directory?

powershell





## 2 Answers

Here is a pretty one liner:

Get-ChildItem -Filter \*.dll -Recurse | Select-Object -ExpandProperty VersionInfo

In short for PowerShell version 2:

```
ls -fi *.dll -r | % { $_.versioninfo }
```

In short for PowerShell version 3 as suggested by tamasf:

ls \*.dll -r | % versioninfo

edited Jan 9 '13 at 13:44

answered Sep 30 '12 at 18:45 knut 3,136 2 24 40

- 6 In short: Is \*.dll -r | % versioninfo tamasf Jan 9 '13 at 8:56
- 3 This will only yield the FileVersion but not the AssemblyVersion bitbonk Feb 5 '15 at 11:44

For managed dll's, to get the real/updated version info, .NET is really the only way to go.

elegantcode.com/2009/12/22/... Look at the "update" down below, the rest is over-complicating it :p – Christopher Wirt Jul 16 '15 at 17:24

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As an ugly one-liner:

If you only want the current directory, then obviously leave out the <code>-Recurse</code> parameter. If you want all files instead of just DLLs, then remove the <code>-Filter</code> parameter and its argument. The code is (hopefully) pretty straightforward.

I'd suggest you spin off the nasty parts within the try block into separate functions since that will make error handling less awkward here.

Sample output:

Name	FileVersion	AssemblyVersion
Properties.Resources.Designer.cs.dll	0.0.0.0	0.0.0.0
My Project.Resources.Designer.vb.dll	0.0.0.0	0.0.0.0
WindowsFormsControlLibrary1.dll	1.0.0.0	1.0.0.0
WindowsFormsControlLibrary1.dll	1.0.0.0	1.0.0.0
WindowsFormsControlLibrary1.dll	1.0.0.0	1.0.0.0

edited Nov 4 '14 at 11:15

answered Jul 17 '10 at 1:05



This works, but unfortunately it loads the files and never releases them ... Run it and then try to delete one of those files. – Karel Frajták Oct 15 '14 at 15:23

1 That is indeed a drawback. You can circumvent this by spawning a new PowerShell instance: powershell -NoProfile -OutputFormat XML -EncodedCommand \$encodedCommand |%{\$\_}} with \$encodedCommand being the Base64-encoded variant of the above snippet (see powershell /? for a sample how to obtain it). This will yield the same objects that would otherwise be produced, but the shell loading the files is no longer alive now. - Joey Oct 16 '14 at 9:14

I am trying to load the assemblies into new AppDomain and unload it later, but it does not work - the assembly loader looks for assemblies in PowerShell directory (C:/windows/system32/WindowsPowerShell/v1.0) even though I set the base directory when creating the new domain... – Karel Frajták Oct 17 '14 at 12:13

- 1 I didn't say that! I just tried it and it locked those files. And then tried different approach and that didn't work. Yes, spawning new process is the solution here. – Karel Frajták Oct 17 '14 at 21:04
- 3 You can use AssemblyName.GetAssemblyName to get the AssemblyName (and hence the AssemblyVersion) without loading the assembly lesscode Nov 3 '14 at 22:49