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Monday, November 22, 2010

Bootstrapper Package | Visual Studio 2010 | Microsoft .NET Framework Version 2.0 Redistributable

After long searching & reading, I created **Bootstrapper package** for using prerequisites on my setup project for my dot.net 2.0 application.

First of all, there must exist the Microsoft .NET Framework Version 2.0 Redistributable packages **installation files**:

1. dotnetfx.exe - for x86 ([download here](#))
2. NetFx64.exe - for x64 ([download here](#))
3. NetFx64.exe - for IA64-Itanium ([download here](#))

Let's rename the files (respectively) so they will be more readable:

1. dotnetfx_x86.exe (for x86)
2. NetFx64_x64.exe (for x64)
3. NetFx64_IA64.exe (for IA64-Itanium)

Now, we have to create new **Bootstrapper Package** for this cause Visual Studio 2010 not contains in its setup prerequisites the Microsoft .NET Framework Version 2.0.

First we create a folder on C:\ and then copy the finished folder to the Bootstrapper folder.

Step 1

Create a folder under C:\ and name it *DotNetFx20*

Inside DotNetFx20, create:

- a. copy the 3 downloaded Redistributable files to it (dotnetfx_x86.exe, NetFx64_x64.exe, NetFx64_IA64.exe)
- b. create an (empty) XML file named *Product.xml* (will be edited later)
- c. create a folder named *en* (for english locale) and create an (empty) XML file named *package.xml*

Step 2

[\[Expand/Collapse\]](#) Edit file *Product.xml*:

```
<?xml version="1.0" encoding="utf-8" ?>

<Product

  xmlns="http://schemas.microsoft.com/developer/2004/01/bootstrapper"

  ProductCode="Microsoft.Net.Framework.2.0">

  <RelatedProducts>

    <DependsOnProduct Code="Microsoft.Windows.Installer.3.1" />

  </RelatedProducts>

  <Schedules>

    <Schedule Name="AfterCoreInstalled">
```

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```

    <BeforePackage />

    <AfterPackage />

</Schedule>
</Schedules>

<!-- Defines list of files to be copied on build -->
<PackageFiles CopyAllPackageFiles="false">

    <PackageFile Name="dotnetfx_x86.exe" />

    <PackageFile Name="NetFx64_x64.exe" />

    <PackageFile Name="NetFx64_IA64.exe" />

</PackageFiles>

<InstallChecks>

    <RegistryCheck Property="InstalledSP" Key="HKLM\Software\Microsoft\NET Framework
Setup\NDP\v2.0.50727" Value="SP" />

    <RegistryCheck Property="Installed" Key="HKLM\Software\Microsoft\NET Framework
Setup\NDP\v2.0.50727" Value="Install" />

    <RegistryCheck Property="IEVersion" Key="HKLM\Software\Microsoft\Internet Explorer"
Value="Version" />

</InstallChecks>

<!-- Defines how to invoke the setup for the .NET Framework redistrib -->
<Commands Reboot="Immediate">

    <!-- The x86 version! -->

    <Command PackageFile="dotnetfx_x86.exe"

        Arguments= '/q'

        EstimatedInstallSeconds="150" EstimatedInstalledBytes="80000000"
EstimatedTempBytes="50000000">

        <InstallConditions>

            <!-- Skip install if NetFX20 is already installed -->

            <BypassIf Property="Installed" Compare="ValueEqualTo" Value="1"/>

            <!-- Skip install if NetFX20 SP2 is already installed -->

            <!--<BypassIf Property="InstalledSP"
Compare="ValueGreaterThanOrEqual" Value="2"/>-->

            <!-- Skip running setup if the OS is Vista or later -->

            <FailIf Property="VersionNT" Compare="VersionGreaterThanOrEqual" Value="6.0.0"

```

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After long! searching for this program, i finally found it: Microsoft Spy++ or by other name spyxx.exe for windows. Spy++ version 1...

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I searched for a code that getting the list of installed application/programs on my windows pc, but the result wat not satisfying. I saw tha...

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After long searching & reading, I created Bootstrapper package for using prerequisites on my setup project for my dot.net 2.0 applicat...

```

String="NotOnVista"/>

    <!-- Skip install if the platform is IA-64 -->

    <!--<FailIf Property="ProcessorArchitecture"
Compare="ValueEqualTo" Value="IA64" String="InvalidPlatformArchitecture"
/>-->

    <!-- Skip install if the platform is not x86 -->

    <BypassIf Property="ProcessorArchitecture" Compare="ValueNotEqualTo" Value="Intel"
/>

    <!-- Block install if user does not have admin privileges -->

    <FailIf Property="AdminUser" Compare="ValueEqualTo" Value="false"
String="AdminRequired" />

    <!-- Block install if IE 5.01 or greater is not present -->

    <FailIf Property="IEVersion" Compare="ValueNotExists" String="InvalidPlatformIE"
/>

    <FailIf Property="IEVersion" Compare="VersionLessThan" Value="5.0.2900"
String="InvalidPlatformIE"
/>

    <!-- Block install on Windows 95 -->

    <FailIf Property="Version9x" Compare="ValueExists" String="InvalidPlatformWin9x"/>

    <!-- Block install on less than Windows 2000 SP4 -->

    <FailIf Property="VersionNT" Compare="VersionLessThan" Value="5.0.4"
String="InvalidPlatformWinNT"/>

    <!-- Block install on less than Windows XP SP2 -->

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.0"
String="InvalidPlatformWinNT"/>

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.1"
String="InvalidPlatformWinNT"/>

    <!-- Block install on W2K3 with no service pack -->

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.2.0"
String="InvalidPlatformWinNT"/>

</InstallConditions>

<ExitCodes>

    <ExitCode Value="0" Result="Success"/>

    <ExitCode Value="1602" Result="Fail" String="CancelledInstall" />

    <ExitCode Value="1603" Result="Fail" String="GeneralFailure" />

```

```

        <ExitCode Value="1641" Result="SuccessReboot"/>

        <ExitCode Value="3010" Result="SuccessReboot"/>

        <ExitCode Value="5100" Result="Fail" String="GeneralFailure"/>

        <DefaultExitCode Result="Fail" FormatMessageFromSystem="true"
String="GeneralFailure" />

    </ExitCodes>

</Command>

<!-- The x64 version! -->

<Command PackageFile="NetFx64_x64.exe"

    Arguments= '/q'

    EstimatedInstallSeconds="150" EstimatedInstalledBytes="180000000"
EstimatedTempBytes="110000000">

    <InstallConditions>

        <!-- Skip install if NetFX20 is already installed -->

        <BypassIf Property="Installed" Compare="ValueEqualTo" Value="1"/>

        <!-- Skip install if NetFX20 SP2 is already installed -->

        <!--<BypassIf Property="InstalledSP"
Compare="ValueGreaterThanOrEqualTo" Value="2"/>-->

        <!-- Skip running setup if the OS is Vista or later -->

        <FailIf Property="VersionNT" Compare="VersionGreaterThanOrEqualTo" Value="6.0.0"
String="NotOnVista"/>

        <!-- Skip install if the platform is IA-64 -->

        <!--<FailIf Property="ProcessorArchitecture"
Compare="ValueEqualTo" Value="IA64"
String="InvalidPlatformArchitecture" />-->

        <!-- Skip install if the platform is not x64 -->

        <BypassIf Property="ProcessorArchitecture" Compare="ValueNotEqualTo" Value="amd64"
/>

        <!-- Block install if user does not have admin privileges -->

        <FailIf Property="AdminUser" Compare="ValueEqualTo" Value="false"
String="AdminRequired" />

        <!-- Block install if IE 5.01 or greater is not present -->

        <FailIf Property="IEVersion" Compare="ValueNotExists" String="InvalidPlatformIE"
/>

```

```

    <FailIf Property="IEVersion" Compare="VersionLessThan" Value="5.0.2900"
String="InvalidPlatformIE"
/>

    <!-- Block install on Windows 95 -->

    <FailIf Property="Version9x" Compare="ValueExists" String="InvalidPlatformWin9x"/>

    <!-- Block install on less than Windows 2000 SP4 -->

    <FailIf Property="VersionNT" Compare="VersionLessThan" Value="5.0.4"
String="InvalidPlatformWinNT"/>

    <!-- Block install on less than Windows XP SP2 -->

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.0"
String="InvalidPlatformWinNT"/>

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.1"
String="InvalidPlatformWinNT"/>

    <!-- Block install on W2K3 with no service pack -->

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.2.0"
String="InvalidPlatformWinNT"/>

</InstallConditions>

<ExitCodes>

    <ExitCode Value="0" Result="Success"/>

    <ExitCode Value="1602" Result="Fail" String="CancelledInstall" />

    <ExitCode Value="1603" Result="Fail" String="GeneralFailure" />

    <ExitCode Value="1641" Result="SuccessReboot"/>

    <ExitCode Value="3010" Result="SuccessReboot"/>

    <ExitCode Value="5100" Result="Fail" String="GeneralFailure"/>

    <DefaultExitCode Result="Fail" FormatMessageFromSystem="true"
String="GeneralFailure" />

</ExitCodes>

</Command>

<!-- The IA64 version! -->

<Command PackageFile="NetFx64_IA64"

    Arguments= '/q'

    EstimatedInstallSeconds="150" EstimatedInstalledBytes="18000000"
EstimatedTempBytes="11000000">

    <InstallConditions>

        <!-- Skip install if NetFX20 is already installed -->

```

```

    <BypassIf Property="Installed" Compare="ValueEqualTo" Value="1"/>

    <!-- Skip install if NetFX20 SP2 is already installed -->

    <!--<BypassIf Property="InstalledSP"
Compare="ValueGreaterThanOrEqualTo" Value="2"/>-->

    <!-- Skip running setup if the OS is Vista or later -->

    <FailIf Property="VersionNT" Compare="VersionGreaterThanOrEqualTo" Value="6.0.0"
String="NotOnVista"/>

    <!-- Skip install if the platform is IA-64 -->

    <!--<FailIf Property="ProcessorArchitecture"
Compare="ValueEqualTo" Value=""
String="InvalidPlatformArchitecture" />-->

    <!-- Skip install if the platform is not IA64 -->

    <BypassIf Property="ProcessorArchitecture" Compare="ValueNotEqualTo" Value="IA64" />

    <!-- Block install if user does not have admin privileges -->

    <FailIf Property="AdminUser" Compare="ValueEqualTo" Value="false"
String="AdminRequired" />

    <!-- Block install if IE 5.01 or greater is not present -->

    <FailIf Property="IEVersion" Compare="ValueNotExists" String="InvalidPlatformIE"
/>

    <FailIf Property="IEVersion" Compare="VersionLessThan" Value="5.0.2900"
String="InvalidPlatformIE"
/>

    <!-- Block install on Windows 95 -->

    <FailIf Property="Version9x" Compare="ValueExists" String="InvalidPlatformWin9x"/>

    <!-- Block install on less than Windows 2000 SP4 -->

    <FailIf Property="VersionNT" Compare="VersionLessThan" Value="5.0.4"
String="InvalidPlatformWinNT"/>

    <!-- Block install on less than Windows XP SP2 -->

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.0"
String="InvalidPlatformWinNT"/>

    <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.1.1"
String="InvalidPlatformWinNT"/>

    <!-- Block install on W2K3 with no service pack -->

```

```

        <FailIf Property="VersionNT" Compare="VersionEqualTo" Value="5.2.0"
String="InvalidPlatformWinNT"/>

    </InstallConditions>

    <ExitCodes>

        <ExitCode Value="0" Result="Success"/>

        <ExitCode Value="1602" Result="Fail" String="CancelledInstall" />

        <ExitCode Value="1603" Result="Fail" String="GeneralFailure" />

        <ExitCode Value="1641" Result="SuccessReboot"/>

        <ExitCode Value="3010" Result="SuccessReboot"/>

        <ExitCode Value="5100" Result="Fail" String="GeneralFailure"/>

        <DefaultExitCode Result="Fail" FormatMessageFromSystem="true"
String="GeneralFailure" />

    </ExitCodes>

</Command>

</Commands>

</Product>

```

Step 3

[\[Expand/Collapse\]](#) Edit file *package.xml*:

```

<?xml version="1.0" encoding="utf-8"?>

<Package Name="DisplayName" LicenseAgreement="eula.rtf" Culture="Culture"
xmlns="http://schemas.microsoft.com/developer/2004/01/bootstrapper">

    <PackageFiles CopyAllPackageFiles="false">

        <PackageFile Name="eula.rtf" />

    </PackageFiles>

    <Strings>

        <String Name="Culture">en</String>

        <String Name="DisplayName">.NET
Framework 2.0</String>

        <String Name="InvalidPlatformWin9x">Installation
of the .NET Framework 2.0 is not supported on Windows 95/98/ME. Contact your
application vendor.</String>

        <String Name="InvalidPlatformWinNT">Installation
of the .NET Framework 2.0 requires a minimum of one of the following: Windows

```

2000 Service Pack 4, Windows XP Service Pack 2, Windows Server 2003 Service Pack 1. To upgrade Windows Vista to .NET Frameworks 2.0 requires the installation of .NET Frameworks 3.5 SP1, available on Microsoft Download Center.</String>

<String Name="InvalidPlatformArchitecture">This version of the .NET Framework 2.0 is not supported on an IA-64 operating system. Contact your application vendor.</String>

<String Name="NotOnVista">This version of the .NET Framework 2.0 can not be installed on Vista or Windows Server 2008. Install .NET Framework 3.5 SP1, which will upgrade .NET Framework 2.0 to SP2, or contact your application vendor.</String>

<String Name="AdminRequired">Administrator permissions are required to install the .NET Framework 2.0. Contact your administrator.</String>

<String Name="InvalidPlatformIE">Installation of the .NET Framework 2.0 requires Internet Explorer 5.01 or greater. Contact your application vendor.</String>

<String Name="CancelledInstall">The user has cancelled the installation. The .NET Framework 2.0 has not been installed.</String>

<String Name="GeneralFailure">A failure occurred attempting to install the .NET Framework 2.0.</String>

<String Name="ErrorDownloading">A failure occurred while downloading .NET Framework 2.0 package.</String>

</Strings>

</Package>

Step 4

Copy the folder *DotNetFx20* to the Bootstrapper packages folder which is under:
C:\Program Files\Microsoft SDKs\Windows\v7.0A\Bootstrapper\Packages

Step 5

That's it.. :)

Here is the whole Bootstrapper Package ready-to-use folder to download without (dotnetfx_x86.exe, NetFx64_x64.exe, NetFx64_IA64.exe) which can be downloaded from MSDN directly (links above):
[download here \(updated file\)](#)

Update (29.11.2010):

There was problem with the Product.xml file, so file updated and also **zip file** for downloading. The filenames did NOT match...

Regards,
[MDB-Blog](#)

4:08:00 ב-1 PM      +1 Recommend this on Google

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4 comments:



Anonymous [August 16, 2011 at 10:36 AM](#)

thanks that was a good help!

[Reply](#)



Anonymous [December 20, 2011 at 12:04 AM](#)

Awesome mi amigo. Great help!

[Reply](#)



Anonymous [February 1, 2012 at 8:21 PM](#)

More helpfull than lots of pages of Microsoft' site. Lot of Thanks.

[Reply](#)



Diego Pego [February 19, 2013 at 4:05 PM](#)

Thank you! I adapted it do sp2 and worked like a charm!

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