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http://www.cl.cam.ac.uk/~mr10/Bench/README

Please feel free to re-implement this benchmark in any language you
choose. I would be happy to incorporate such tranlations into this
distribution together with their timing/size results.

Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
```

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see http://math.nist.gov/scimark2

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
<PropertyGroup>
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
</PropertyGroup>

<!--
Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file

```
    in the dotnet home directory.
  -->
  <ItemGroup>
    <TpnRepo Include="dotnet/runtime" />
    <TpnRepo Include="dotnet/aspnetcore" />
    <TpnRepo Include="dotnet/installer" />
    <TpnRepo Include="dotnet/roslyn-analyzers" />
    <TpnRepo Include="dotnet/templating" />
    <TpnRepo Include="dotnet/winforms" />
    <TpnRepo Include="dotnet/wpf" />
    <TpnRepo Include="dotnet/linker" />

    <!--
      Additional repos that
 should be included but don't have any third-party-notices files:
        dotnet/efcore
        dotnet/emsdk
        dotnet/extensions
        dotnet/icu
        dotnet/sdk
        dotnet/windowsdesktop
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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jloup@gzip.org madler@alumni.caltech.edu

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By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.4 microsoft.windows.compatibility 7.0.1

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1.5 tss.msr 2.1.1

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1.6 system-serviceprocess-servicecontroller 7.0.0

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http://www.cl.cam.ac.uk/~mr10/Bench/README

Please feel free to re-implement this benchmark in any language you
choose. I would be happy to incorporate such tranlations into this
distribution together with their timing/size results.

Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
```

```
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```
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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
```
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```
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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see http://math.nist.gov/scimark2

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```

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
<PropertyGroup>
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
</PropertyGroup>

<!--
Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file in the dotnet home directory.
-->
<ItemGroup>
<TpnRepo Include="dotnet/runtime" />
<TpnRepo Include="dotnet/aspnetcore" />
<TpnRepo Include="dotnet/installer" />
<TpnRepo Include="dotnet/roslyn-analyzers" />
<TpnRepo Include="dotnet/templating" />
<TpnRepo Include="dotnet/winforms" />
<TpnRepo Include="dotnet/wpf" />
<TpnRepo Include="dotnet/linker" />

<!--
Additional repos that
should be included but don't have any third-party-notices files:
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop
-->

<TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

<PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
<PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />

```
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
```

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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson
seander@cs.stanford.edu

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John R. Hauser
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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
```

```
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
```

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```
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
```

```
    its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
    in the dotnet home directory.
  -->
  <ItemGroup>
    <TpnRepo Include="dotnet/runtime" />
    <TpnRepo Include="dotnet/aspnetcore" />
    <TpnRepo Include="dotnet/installer" />
    <TpnRepo Include="dotnet/roslyn-analyzers" />
    <TpnRepo Include="dotnet/templating" />
    <TpnRepo Include="dotnet/winforms" />
    <TpnRepo Include="dotnet/wpf" />
    <TpnRepo Include="dotnet/linker" />

    <!--
      Additional repos that
 should be included but don't have any third-party-notices files:
        dotnet/efcore
        dotnet/emsdk
        dotnet/extensions
        dotnet/icu
        dotnet/sdk
        dotnet/windowsdesktop
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == "" Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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jloup@gzip.org madler@alumni.caltech.edu

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 27th, 2022

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By Sean Eron Anderson
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1.8 common-logging-nlog41 3.4.1

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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

By Sean Eron Anderson
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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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1.11 mstest-testframework 1.2.1

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1.12 system.commandline 2.0.0-beta4.22272.1

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1.13 criollo 0.5.5

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1.14 microsoft.windows.sdk.net.ref 10.0.22621.28

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/opt/cola/permits/1845778165_1699990928.5434532/0/microsoft-windows-sdk-net-ref-10-0-22621-31-zip/lib/net6.0/WinRT.Runtime.dll: binary file matches
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<param name="attestation">A plain-english statement declaring that the publisher has permission to use the feature.</param>
<summary>Indicates that the user has permission to use the feature, and that the feature is still in the "limited access" state.</summary>
<member name="T:Windows.ApplicationModel.UserActivities.UserActivityAttribution">
<member name="M:Windows.ApplicationModel.UserActivities.UserActivityAttribution.#ctor">
<summary>Create a **UserActivityAttribution** object.</summary>
<member
name="M:Windows.ApplicationModel.UserActivities.UserActivityAttribution.#ctor(Windows.Foundation.Uri)">
<summary>Create a **UserActivityAttribution** object with the specified icon image URI.</summary>
<param name="iconUri">The Uniform Resource Identifier (URI) of the icon image to use with this **UserActivityAttribution**.</param>
<member name="P:Windows.ApplicationModel.UserActivities.UserActivityAttribution.AddImageQuery">
<member
 name="P:Windows.ApplicationModel.UserActivities.UserActivityAttribution.AlternateText">
<member name="P:Windows.ApplicationModel.UserActivities.UserActivityAttribution.IconUri">
<member name="P:Windows.ApplicationModel.UserActivities.UserActivityVisualElements.Attribution">
<member
name="P:Windows.ApplicationModel.UserActivities.UserActivityVisualElements.AttributionDisplayText">
<member name="P:Windows.Networking.Connectivity.AttributedNetworkUsage.AttributionId">

<member name="P:Windows.Networking.Connectivity.AttributedNetworkUsage.AttributionName">
<member name="P:Windows.Networking.Connectivity.AttributedNetworkUsage.AttributionThumbnail">
<returns>**true** if permission is granted. Otherwise, **false**.</returns>
<member name="P:Windows.Services.Maps.MapService.DataAttributions">
<member name="P:Windows.Services.Maps.LocalSearch.LocalLocation.DataAttribution">

Found in path(s):
* /opt/cola/permits/1845778165_1699990928.5434532/0/microsoft-windows-sdk-net-ref-10-0-22621-31-zip/lib/net6.0/Microsoft.Windows.SDK.NET.xml

1.15 system-codedom 7.0.0

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http://www.cl.cam.ac.uk/~mr10/Bench/README

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Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
   its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
   in the dotnet home directory.
  -->
  <ItemGroup>

```
    <TpnRepo Include="dotnet/runtime" />
    <TpnRepo Include="dotnet/aspnetcore" />
    <TpnRepo Include="dotnet/installer" />
    <TpnRepo Include="dotnet/roslyn-analyzers" />
    <TpnRepo Include="dotnet/templating" />
    <TpnRepo Include="dotnet/winforms" />
    <TpnRepo Include="dotnet/wpf" />
    <TpnRepo Include="dotnet/linker" />

    <!--
      Additional repos that
 should be included but don't have any third-party-notices files:
        dotnet/efcore
        dotnet/emsdk
        dotnet/extensions
        dotnet/icu
        dotnet/sdk
        dotnet/windowsdesktop
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == "" Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
```

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 27th, 2022

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By Sean Eron Anderson
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Bit Twiddling Hacks

By Sean Eron Anderson
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.16 system-configuration-configurationmanager 7.0.0

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Please feel free to re-implement this benchmark in any language you
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Martin Richards
23 February 2007
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<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />

```
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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```

This is a port of the SciMark2a Java Benchmark to C# by
Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see http://math.nist.gov/scimark2

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<Project Sdk="Microsoft.Build.NoTargets">

<UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
<PropertyGroup>
<TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
</PropertyGroup>

<!--
Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
in the dotnet home directory.
-->
<ItemGroup>
<TpnRepo Include="dotnet/runtime" />
<TpnRepo Include="dotnet/aspnetcore" />
<TpnRepo Include="dotnet/installer" />
<TpnRepo Include="dotnet/roslyn-analyzers" />
<TpnRepo Include="dotnet/templating" />
<TpnRepo Include="dotnet/winforms" />
<TpnRepo Include="dotnet/wpf" />
<TpnRepo Include="dotnet/linker" />

<!--
Additional repos that
should be included but don't have any third-party-notices files:
dotnet/efcore
dotnet/emsdk
dotnet/extensions
dotnet/icu
dotnet/sdk
dotnet/windowsdesktop

```
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library

version 1.2.12, March 27th, 2022

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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John R. Hauser
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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Martin Richards
23 February 2007
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  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
seander@cs.stanford.edu

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https://github.com/Microsoft/RoslynClrHeapAllocationAnalyzer

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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  <ApplicationManifest>App.manifest</ApplicationManifest>
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  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.19 system-text-json 4.7.2

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.21 microsoft-identitymodel-logging 6.29.0

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1.22 apple/swift-argument-parser 1.2.2

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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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John R. Hauser
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Martin Richards
23 February 2007
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/* zlib.h -- interface of the 'zlib' general purpose compression library
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By Sean Eron Anderson
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John R. Hauser
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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Question author: Bob The Janitor -- https://stackoverflow.com/users/55102/bob-the-janitor
Answer author: harp -- https://stackoverflow.com/users/4525/harpo

Use:
https://github.com/dotnet/coreclr/blob/a9074bce5e3814db67dbec1c56f477202164d162/tests/src/sizeondisk/sodbench/SoDBench.cs#L738

```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <ProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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https://www.simple-talk.com/dotnet/.net-framework/the-dangers-of-the-large-object-heap/

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1.24 reactive-extensions-interfaces-library 3.0.0

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1.25 azure-activedirectory-identitymodel-extensions-for-dotnet 6.29.0

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1.26 reactive-extensions-platform-services-library 3.0.0

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1.27 system-formats-asn 7.0.0

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http://www.cl.cam.ac.uk/~mr10/Bench/README

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Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
```

```
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```
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new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
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```
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
   its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
   in the dotnet home directory.
  -->
  <ItemGroup>
   <TpnRepo Include="dotnet/runtime" />
   <TpnRepo Include="dotnet/aspnetcore" />
   <TpnRepo Include="dotnet/installer" />
   <TpnRepo Include="dotnet/roslyn-analyzers" />
   <TpnRepo Include="dotnet/templating" />
   <TpnRepo Include="dotnet/winforms" />
   <TpnRepo Include="dotnet/wpf" />
   <TpnRepo Include="dotnet/linker" />

   <!--
     Additional repos that
 should be included but don't have any third-party-notices files:
       dotnet/efcore
       dotnet/emsdk
       dotnet/extensions
       dotnet/icu
       dotnet/sdk
       dotnet/windowsdesktop
   -->

   <TpnRepo Condition="'%(TpnRepo.Branch)' == "" Branch="main" />

   <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
```

```
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
```

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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 27th, 2022

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By Sean Eron Anderson
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Bit Twiddling Hacks

By Sean Eron Anderson
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.28 mstest-testadapter 3.0.4

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1.29 commonlogging 3.4.1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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By Sean Eron Anderson
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library
refers to a function or a
table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed
under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this
License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables

containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable
source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user
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c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the
major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

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we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified
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the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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1.34 reactive-extensions-core-library 3.0.0

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1.35 criollo 1.0.1

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1.37 moq 4.13.1

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1.38 system-management 7.0.2

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Martin Richards
23 February 2007
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OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
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<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />

```
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```
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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
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<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
   its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
   in the dotnet home directory.
  -->
  <ItemGroup>
   <TpnRepo Include="dotnet/runtime" />
   <TpnRepo Include="dotnet/aspnetcore" />
   <TpnRepo Include="dotnet/installer" />
   <TpnRepo Include="dotnet/roslyn-analyzers" />
   <TpnRepo Include="dotnet/templating" />
   <TpnRepo Include="dotnet/winforms" />
   <TpnRepo Include="dotnet/wpf" />
   <TpnRepo Include="dotnet/linker" />

   <!--
    Additional repos that
 should be included but don't have any third-party-notices files:
     dotnet/efcore
     dotnet/emsdk
     dotnet/extensions
     dotnet/icu
     dotnet/sdk
     dotnet/windowsdesktop
   -->

```
    <TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
```
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https://github.com/madler/zlib
https://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 27th, 2022

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.40 system-buffers 4.5.1

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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.46 reactive-extensions-query-library 3.0.0

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1.47 microsoft-csharp 4.7.0

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1.48 system-threading-tasks-extensions 4.5.1

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Bit Twiddling Hacks

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1.49 microsoft-identitymodel-tokens 6.29.0

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1.50 system-memory 4.5.4

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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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http://www.cl.cam.ac.uk/~mr10/Bench/README

Please feel free to re-implement this benchmark in any language you
choose. I would be happy to incorporate such tranlations into this
distribution together with their timing/size results.

Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```

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```
new XElement("TITLE", "The Tragedy of Hamlet, Prince of Denmark"),
new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />
```

```
<Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
    <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
    Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
    its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
    in the dotnet home directory.
  -->
  <ItemGroup>
    <TpnRepo Include="dotnet/runtime" />
    <TpnRepo Include="dotnet/aspnetcore" />
    <TpnRepo Include="dotnet/installer" />
    <TpnRepo Include="dotnet/roslyn-analyzers" />
    <TpnRepo Include="dotnet/templating" />
    <TpnRepo Include="dotnet/winforms" />
    <TpnRepo Include="dotnet/wpf" />

    <!--
      Additional repos that should be included but don't have any
third-party-notices files:
        dotnet/efcore
        dotnet/emsdk
        dotnet/extensions
        dotnet/icu
        dotnet/sdk
        dotnet/windowsdesktop
        dotnet/linker
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
</Target>
```

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Chris Re (cmr28@cornell.edu) and Werner Vogels (vogels@cs.cornell.edu)

For details on the original authors see http://math.nist.gov/scimark2

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https://github.com/madler/zlib
http://zlib.net/zlib_license.html

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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 Jean-loup Gailly Mark Adler
 jloup@gzip.org madler@alumni.caltech.edu

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Bit Twiddling Hacks

By Sean Eron Anderson
seander@cs.stanford.edu

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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By Sean Eron Anderson
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Martin Richards
23 February 2007
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```
<Project Sdk="Microsoft.NET.Sdk">
 <PropertyGroup>
  <OutputType>Exe</OutputType>
  <ApplicationManifest>App.manifest</ApplicationManifest>
 </PropertyGroup>
 <ItemGroup>
  <Compile Include="Program.cs" />
  <Compile Include="../../ServerContracts/Server.CoClasses.cs" />
  <Compile Include="../../ServerContracts/Server.Contracts.cs" />
  <Compile Include="../../ServerContracts/ServerGuids.cs" />
 </ItemGroup>
 <ItemGroup>
  <CMakeProjectReference Include="../../NativeServer/CMakeLists.txt" />
  <ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
 </ItemGroup>
</Project>
```
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```
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new XElement("fm",
  new XElement("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
  new XElement("p", "SGML markup by Jon Bosak, 1992-1994."),
  new XElement("p", "XML version by Jon Bosak, 1996-1997."),
  new XElement("p", "This work may be freely copied and distributed worldwide.")
<Project Sdk="Microsoft.Build.NoTargets">

 <UsingTask TaskName="RegenerateThirdPartyNotices" AssemblyFile="$(InstallerTasksAssemblyPath)" />

 <Target Name="RegenerateThirdPartyNotices" AfterTargets="Build">
  <PropertyGroup>
   <TpnFile>$(InstallerProjectRoot)pkg\THIRD-PARTY-NOTICES.TXT</TpnFile>
  </PropertyGroup>

  <!--
   Repo configuration. Upstreams, but also more: the TPN in dotnet/runtime serves many repos outside
   its graph, because dotnet/runtime produces the installer that ends up placing the single TPN file
   in the dotnet home directory.
  -->
  <ItemGroup>
   <TpnRepo Include="dotnet/runtime" />
   <TpnRepo Include="dotnet/aspnetcore" />
   <TpnRepo Include="dotnet/installer" />
   <TpnRepo Include="dotnet/roslyn-analyzers" />
   <TpnRepo Include="dotnet/templating" />
   <TpnRepo Include="dotnet/winforms" />
   <TpnRepo Include="dotnet/wpf" />

   <!--
    Additional repos that should be included but don't have any
 third-party-notices files:
      dotnet/efcore
      dotnet/emsdk
      dotnet/extensions
      dotnet/icu
      dotnet/sdk
      dotnet/windowsdesktop
      dotnet/linker
```

```
    -->

    <TpnRepo Condition="'%(TpnRepo.Branch)' == '' Branch="main" />

    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.TXT" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES.txt" />
    <PotentialTpnPath Include="THIRD-PARTY-NOTICES" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.TXT" />
    <PotentialTpnPath Include="THIRDPARTYNOTICES.txt" />
  </ItemGroup>

  <RegenerateThirdPartyNotices
    TpnFile="$(TpnFile)"
    PotentialTpnPaths="@(PotentialTpnPath)"
    TpnRepos="@(TpnRepo)" />

  <Message Text="$(MSBuildProjectName) -> $(TpnFile)" Importance="High" />
 </Target>

</Project>
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https://github.com/madler/zlib
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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https://github.com/santoshsahoo/nbench (mirror of the same code)

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1.57 system-valuetuple 4.5.0

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Bit Twiddling Hacks

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1.58 mstest-testframework 3.0.4

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1.59 reswift 5.0.0

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1.60 reswift 20180803-snapshot-b531ce28

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1.61 mstest-testadapter 1.2.1

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1.62 microsoft-toolkit-uwp-notifications 5.1.1

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1.63 reactive-extensions-xaml-support-library 3.0.0

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