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version 1.2.11, January 15th, 2017

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Written

in 2018 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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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>
```

```
<ProjectReference Include="..\..\NativeServer/CMakeLists.txt" />
```

```
<ProjectReference Include="$(TestSourceDir)Common/CoreCLRTestLibrary/CoreCLRTestLibrary.csproj" />
```

```
</ItemGroup>
```

```
</Project>
```

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1.6 xunit.net-[core-library] 2.4.2

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1.7 coverlet.collector 3.2.0

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1.8 microsoft.net.test.sdk 17.5.0

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1.9 xunit.net-[assertion-library] 2.4.2

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1.10 xunit.net-[extensibility:-execution] 2.4.2

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1.11 xunit.net-[extensibility:-core] 2.4.2

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1.12 xunit-analyzers 1.0.0

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1.13 xunit.net 2.4.2

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1.14 microsoft.data.sqlclient.sni.runtime 5.2.0

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1.15 runtime.rhel.7-x64.runtime.native.system.security.cryptographic.openssl 4.3.2

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1. .NET Core (<https://github.com/dotnet/core/>)

.NET Core

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1.16 closedxml 0.102.2

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1.17 runtime.opensuse.42.1-x64.runtime.native.system.security.cryptographic.openssl 4.3.2

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1. .NET Core (<https://github.com/dotnet/core/>)

.NET Core

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1.18 microsoft-aspnetcore-authentication-jwtbearer 6.0.27

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1.19 runtime.fedora.23-x64.runtime.native.system.security.cryptography.openssl 4.3.2

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1.20 documentformat.openxml 2.16.0

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1.21 microsoft.netcore.platforms 1.1.1

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1.22 swashbuckle.aspnetcore.swaggerui 6.2.3

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1.23 runtime.ubuntu.14.04-x64.runtime.native.system.security.cryptography.openssl 4.3.2

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1.24 runtime.opensuse.13.2-x64.runtime.native.system.security.cryptographic.openssl 4.3.2

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1.25 swashbuckle-aspnetcore 6.2.3

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1.26 excelnumberformat 1.1.0

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1.27 runtime.ubuntu.16.10-x64.runtime.native.system.security.cryptogra

phy.openssl 4.3.2

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1.28 runtime.fedora.24-x64.runtime.native.system.security.cryptography.openssl 4.3.2

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1.31 xlparser 1.5.2

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* /bin/grep

1.32 runtime.debian.8-x64.runtime.native.system.security.cryptography.openssl 4.3.2

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1.35

system.configuration.configurationmanager

6.0.1

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* /bin/grep

1.36 librdkafka - the apache kafka c/c++ client library 2.4.0

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1.37 runtime.ubuntu.16.04-x64.runtime.native.system.security.cryptogra

phy.openssl 4.3.2

1.37.1 Available under license :

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1.38 system.io.packaging 6.0.0

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1.39

runtime.native.system.security.cryptography.

openssl 4.3.2

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1.40 confluent.kafka 2.4.0

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Derived from: rdafka-dotnet - C# Apache Kafka client library

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1.41 runtime.osx.10.10- x64.runtime.native.system.security.cryptogra phy.openssl 4.3.2

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1.42 microsoft asp.net core api versioning

5.1.0

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1.43 irony.netcore 1.0.11

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1.44 dapperlib-dapper 2.1.28

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1.45 system.text.regularexpressions 4.3.1

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1.46 system.text.json 4.7.2

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1.47 microsoft.identitymodel.logging 6.35.0

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* /bin/grep

1.48 system.diagnostics.diagnosticsource

6.0.1

1.48.1 Available under license :

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1.49 swashbuckle.aspnetcore.swagger 6.2.3

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1.50 system.reflection.typeextensions 4.3.0

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1.51 microsoft.identitymodel.tokens 6.35.0

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1.52 microsoft.identitymodel.protocols 6.35.0

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1.53 microsoft.extensions.primitives 6.0.0

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1.54

microsoft.identitymodel.protocols.openidconnect 6.35.0

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1.55 swashbuckle.aspnetcore.swaggergen 6.2.3

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1.56 system.runtime.compilerservices.unsafe

6.0.0

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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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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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```

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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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/* zlib.h -- interface of the 'zlib' general purpose compression library
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in 2018 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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Use:

<https://github.com/dotnet/runtime/blob/4893732ba881a4fb9023af1d6d4e64bb2a6eddbc/src/tests/sizeondisk/sodbenc>

h/SoDBench.cs#L735

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<https://github.com/santoshshahoo/nbench> (mirror of the same code)

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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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in 2018 by David Blackman and Sebastiano Vigna (vigna@acm.org)

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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.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
    -->

    <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>
<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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.13, October 13th, 2022

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Martin Richards

23 February 2007

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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" />
```

```
<!--
```

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

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.13, October 13th, 2022

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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1.65 system.security.cryptography.primitives

4.3.0

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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>
<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
    -->

    <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 1.2.13, October 13th, 2022

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Martin Richards

23 February 2007

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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" />
```

```
<!--
```

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 1.2.13, October 13th, 2022

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By Sean Eron Anderson
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John R. Hauser
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<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <ApplicationManifest>App.manifest</ApplicationManifest>
  </PropertyGroup>
  <ItemGroup>
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    <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("p", "Text placed in the public domain by Moby Lexical Tools, 1992."),
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.13, October 13th, 2022

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By Sean Eron Anderson
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Aspects of Date/Time processing based on algorithm described in "Euclidean Affine Functions and Applications to Calendar

Algorithms", Cassio Neri and Lorenz Schneider. <https://arxiv.org/pdf/2102.06959.pdf>

<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
-->
```

```
<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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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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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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By Sean Eron Anderson
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Contributions to .NET Core SDK 1.0

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core SDK 1.0. Where multiple email addresses were returned for a single person, the counts were aggregated

with the email address reported the most commits.

```
```bash
git shortlog -sne --no-merges --until release/1.1.0@{2017-02-25}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

.NET Core Tools (SDK)

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- [Aleksandar Milicevic (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=almili@microsoft.com>)
- [Falco (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=rs38@users.noreply.github.com>)
- [Erik Schierboom (1)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=erik_schierboom@hotmail.com)
- [Scott Carlton (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=v-sccarl@microsoft.com>)
- [Senthil Chellappan (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=schellap@bose.guest.corp.microsoft.com>)
- [wtgodbe (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=wigodbe@microsoft.com>)
- [Simon de Lang (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=simondelang@gmail.com>)
- [Dongyun Jin (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=dongyun.jin@samsung.com>)
- [Tanner Gooding (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=tannergooding@outlook.com>)
- [Dennis Fischer (1)](https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=fischer_dennis@live.de)
- [The Gitter Badger (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=badger@gitter.im>)
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- [Damian Edwards (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=damian@damianedwards.com>)
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- [William Li (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=wul@microsoft.com>)
- [Zhi Li (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=zhili128@outlook.com>)
- [Chris Rummel (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=crummel@microsoft.com>)
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- [Brice Lambson (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=bricelam@outlook.com>)
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- [factormystic (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=factormystic@gmail.com>)
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- [Mark Clearwater (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=mcclearwater@gmail.com>)
- [Mark Junker (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=fubar-coder@users.noreply.github.com>)
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- [Matt Galbraith (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=MattGal@users.noreply.github.com>)
- [Luke Elliott (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=revlucio@gmail.com>)
- [Mattias Karlsson (1)](<https://github.com/dotnet/cli/commits/rel/1.0.0-preview2.1?author=mattias@devlead.se>)
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Contributions to .NET Core 2.0

The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0.

```
```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-07-25}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

* [CLI](#cli)

* [CoreCLR](#coreclr)

* [CoreFX](#corefx)

* [WCF](#wcf)

CLI

* [Livar Cunha (311)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com>)

* [Piotr Puskiewicz (219)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com>)

* [Eric Erhardt (159)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=eric.erhardt@microsoft.com>)

* [Justin Goshi (145)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jgoshi@microsoft.com>)

* [Krzysztof Wicher (103)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mordotymoja@gmail.com>)

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* [John Beisner (76)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jbeisner@microsoft.com>)

* [Nick Guerrero (71)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nicholg@microsoft.com>)

* [William Li (67)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=wul@microsoft.com>)

* [Livar (58)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com>)

* [Jon Sequeira (52)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jonsequira@gmail.com>)

* [Livar Cunha (38)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com>)

* [Daniel Plaisted (34)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=daplaist@microsoft.com>)

* [Faizan Ahmad (30)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=faahmad@microsoft.com>)

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[Zlatko Knezevic (29)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=zlakne@microsoft.com>)

* [Bryan Thornbury (26)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=brthor@microsoft.com>)

* [Scott Carlton (19)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-sccarl@microsoft.com>)

* [mlorbetske (17)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mike.lorbetske@n3-p.com>)

* [Matt Ellis (16)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=matell@microsoft.com>)

* [Rainer Sigwald (16)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=raines@microsoft.com>)

* [Satya Madala (14)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=samadala@microsoft.com>)

* [Kevin Ransom (13)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=kevinr@microsoft.com>)

* [Vijay Ramakrishnan (12)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=vramak@microsoft.com>)

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[Rama Krishnan Raghupathy

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* [Steve Sanderson

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* [Ankit Mishra (11)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=anmishr@microsoft.com>)

* [Harsh Jain (10)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=harjain@microsoft.com>)

* [Nate Amundson (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=naamunds@microsoft.com>)

* [Rohit Agrawal (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ragrawal@microsoft.com>)

* [Chris Rummel (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=crummel@microsoft.com>)

* [Enrico Sada (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=enrico@sada.io>)

* [Jeff Kluge

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* [seancpeters (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=sepeters@microsoft.com>)

* [Omair Majid (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=omajid@redhat.com>)

- * [Ashley Hauck (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ashauck@microsoft.com>)
- * [Zbynk Sailer (7)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-zbsail@microsoft.com>)
- * [Shayne Boyer (6)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=spboyer@live.com>)
- * [dasMulli (6)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=martin.andreas.ullrich@gmail.com>)
- * [Arun Mahapatra (6)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=codito@users.noreply.github.com>)
- * [Parallels (6)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com>)
- * [Mikkel Nylander Bundgaard (6)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mikkelbu@gmail.com>)
- *
- [Mike Lorbetske (5)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mlorbe@microsoft.com>)
- * [Maira Wenzel (5)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mairaw@microsoft.com>)
- * [Jonathan Channon (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jonathan.channon@gmail.com>)
- * [Arun Mahapatra (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=armahapa@microsoft.com>)
- * [Sridhar Periyasamy (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=sridhper@microsoft.com>)
- * [Rohit Agrawal (NUGET) (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ragrawal@microsoft.com>)
- * [blackdwarf (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=zlakne@microsoft.com>)
- * [Christopher Costa (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=chcosta@microsoft.com>)
- * [Ashish Jain (NUGET) (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=asja@microsoft.com>)
- * [Faizan2304 (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=faizan2304@hotmail.com>)
- * [Davis Goodin (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=dagood@microsoft.com>)
- * [mendhak (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=gpslogger@mendhak.com>)
- * [PiotrP (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com>)
- * [v-masche (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-masche@DDVMASCHE492>)
- * [vsccarl (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-sccarl@microsoft.com>)
- * [Alex Barney (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=thealexbarney@gmail.com>)
- * [Daniel Lo Nigro (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=daniel@dan.cx>)
- * [Fredric Silberberg (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=frsilb@microsoft.com>)
- * [Jiyoung Yun (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jy910.yun@samsung.com>)
- * [Karthik Rajasekaran (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=karajas@microsoft.com>)
- * [Ken Dale (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ken@kendaleiv.com>)
- * [N. Taylor Mullen (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nimullen@microsoft.com>)
- * [Nat Ayewah (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nayewah@microsoft.com>)
- * [Nate McMaster (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nate.mcmaster@microsoft.com>)
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- * [Petr Onderka (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=gsvick@gmail.com>)
- * [Phil Henning (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=phenning@microsoft.com>)
- * [Richard Lander (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=rlander@microsoft.com>)
- * [Rob Relyea (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=rrelyea@microsoft.com>)
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- [Scott Hanselman (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=scott@hanselman.com>)
- * [Shannon (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=sdeminick@gmail.com>)
- * [William Lee (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=xingmu33@gmail.com>)
- * [Zhi Li (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=zhili128@outlook.com>)

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- * [Rich Lander (1)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=rlander@microsoft.com>)
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CoreCLR

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- * [Jan Kotas (182)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jkotas@microsoft.com>)
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- * [Bruce Forstall (101)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=brucefo@microsoft.com>)
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Contributions to .NET 5.0

.NET 5 is an amazing milestone enabled, in part, by a wonderfully engaged community. This page is an attempt to acknowledge the efforts of many folks across the breadth of the ecosystem. We're working to get better at recognizing your contributions so please, let us know if something is incorrect or missing.

****Thank you!!****

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 # Contributions to .NET Core 1.1

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command against each repo. The release qualifier is different from the example in some cases. Also, where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```
```bash
git shortlog -sne --no-merges --since {2016-05-20} --until {2016-11-08}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

CLI

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- [Zlatko
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- * api-ms-*.dll (used by .NET runtime)
- * ucrtbase.dll (used by .NET runtime)
- * D3DCompiler_47_cor3.dll (used by WPF)

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- * PresentationNative_cor3.dll (used by WPF)
- * wpfgfx_cor3.dll (used by WPF)

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- * Microsoft.DiaSymReader.Native.{x86|amd64|arm|arm64}.dll
(used by .NET SDK)

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Contributions to .NET Core 2.0 Preview 2

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0 Preview 2. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```
```bash
git shortlog -sne --no-merges --since release/2.0.0@{2017-05-05} --until release/2.0.0@{2017-06-07}
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- * [CLI](#cli)
- * [CoreCLR](#coreclr)
- * [CoreFX](#corefx)
- * [WCF](#wcf)

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* [Gaurav Khanna (1)](<https://github.com/dotnet/corefx/commits/release/2.0.0?author=gkhanna@microsoft.com>)

* [Eric Erhardt (1)](<https://github.com/dotnet/corefx/commits/release/2.0.0?author=eric.erhardt@microsoft.com>)

* [Stephen A. Imhoff (1)](<https://github.com/dotnet/corefx/commits/release/2.0.0?author=clockwork-muse@outlook.com>)

WCF

* [Stephen Bonikowsky (14)](<https://github.com/dotnet/wcf/commits/release/2.0.0?author=stebon@microsoft.com>)
* [Zhenlan Wang (3)](<https://github.com/dotnet/wcf/commits/release/2.0.0?author=zhenlwa@microsoft.com>)
* [Matt Connew (2)](<https://github.com/dotnet/wcf/commits/release/2.0.0?author=mconnew@microsoft.com>)
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[KKhurin (2)](<https://github.com/dotnet/wcf/commits/release/2.0.0?author=kkhurin@microsoft.com>)
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* [Shin Mao (1)](<https://github.com/dotnet/wcf/commits/release/2.0.0?author=shmao@microsoft.com>)
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Contributions to .NET Core 2.0 Preview 1

We're still working out the best way to present contributors and trying to be as accurate as possible. The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.0 Preview 1. Where multiple email addresses were returned for a single person, the counts were aggregated with the email address reported the most commits.

```
```bash
git shortlog -sne --no-merges --since release/2.0.0@{2016-10-03} --until release/2.0.0@{2017-05-05} --
committer="dotnet-bot" --invert-grep
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

* [CLI](#cli)
* [CoreCLR](#coreclr)
* [CoreFX](#corefx)
* [WCF](#wcf)

CLI

* [Livar Cunha (227)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com>)
* [Piotr Puskiewicz (219)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com>)
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[Justin Goshi (145)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jgoshi@microsoft.com>)
* [Eric Erhardt (136)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=eric.erhardt@microsoft.com>)
* [Krzysztof Wicher (103)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mordotymoja@gmail.com>)
* [jonsequitur (74)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jonsequeira@gmail.com>)
* [Jon Sequeira (51)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jonsequeira@gmail.com>)
* [Mike Lorbeteske (43)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mike.lorbetske@n3-p.com>)
* [Faizan Ahmad (32)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=faahmad@microsoft.com>)
* [Livar Cunha (29)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=licavalc@microsoft.com>)
* [Zlatko Knezevic (29)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=zlakne@microsoft.com>)

* [Bryan Thornbury (26)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=brthor@microsoft.com>)

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* [Daniel Plaisted (25)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=daplaist@microsoft.com>)

* [Nick Guerrero (21)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=nicholg@microsoft.com>)

* [Scott Carlton (19)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-sccarl@microsoft.com>)

* [William Li (18)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=wul@microsoft.com>)

* [John Beisner (15)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jbeisner@microsoft.com>)

* [Satya Madala (14)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=samadala@microsoft.com>)

* [Unknown (14)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=piotrp@microsoft.com>)

* [Rama Krishnan Raghupathy (12)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ramarag@microsoft.com>)

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[Matt Ellis (12)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=matell@microsoft.com>)

* [Harsh Jain (10)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=harjain@microsoft.com>)

* [Nate Amundson (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=naamunds@microsoft.com>)

* [Ankit Mishra (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=anmishr@microsoft.com>)

* [Rohit Agrawal (9)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=ragrawal@microsoft.com>)

* [Jeff Kluge (8)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jeffkl@microsoft.com>)

* [Vijay Ramakrishnan (7)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=vramak@microsoft.com>)

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* [Mike Lorbeteske (5)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=mlorbe@microsoft.com>)

* [Arun Mahapatra (5)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=codito@users.noreply.github.com>)

* [Parallels (5)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=livar@live.com>)

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* [Jonathan Channon (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jonathan.channon@gmail.com>)

* [Zbynk Sailer (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=v-zbsail@microsoft.com>)

* [blackdwarf (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=zlakne@microsoft.com>)

* [Sridhar Periyasamy (4)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=sridhper@microsoft.com>)

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* [Arun Mahapatra (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=armahapa@microsoft.com>)

* [Davis Goodin (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=dagood@microsoft.com>)

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* [Enrico Sada (3)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=enrico@sada.io>)

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* [Jiyoung Yun (2)](<https://github.com/dotnet/cli/commits/release/2.0.0?author=jy910.yun@samsung.com>)

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CoreCLR

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[Jan Kotas (157)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jkotas@microsoft.com>)
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* [Joseph Tremoulet (55)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jotrem@microsoft.com>)
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* [Justin Van Patten (29)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jvp@justinvp.com>)
* [James Ko (28)](<https://github.com/dotnet/coreclr/commits/release/2.0.0?author=jamesqko@gmail.com>)
* [Tarek Mahmoud Sayed
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 # Contributions to .NET Core 2.1

The list below is generated with the following command listed below in an attempt to capture all contributions which have gone into .NET Core 2.1.

```
```bash
git shortlog -sne --no-merges --since 2017-11-16 --until 2018-05-15
```
```

When you navigate to a contributors commit page, the results are not filtered by release so more commits than are listed below will be shown.

- * [CLI](#cli)
- * [CoreCLR](#coreclr)
- * [CoreFX](#corefx)
- * [WCF](#wcf)

CLI

- * [Livar Cunha (78)](<https://github.com/dotnet/cli/commits/release/2.1.3xx?author=livar@live.com>)
- * [jbeisner (57)](<https://github.com/dotnet/cli/commits/release/2.1.3xx?author=jbeisner@microsoft.com>)
- * [Peter Huene (57)](<https://github.com/dotnet/cli/commits/release/2.1.3xx?author=pehuene@microsoft.com>)
- * [Nate McMaster (46)](<https://github.com/dotnet/cli/commits/release/2.1.3xx?author=nate.mcmaster@microsoft.com>)
- * [Livar (44)](<https://github.com/dotnet/cli/commits/release/2.1.3xx?author=licavalc@microsoft.com>)
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 * [Noah Falk
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 * [Adam Sitnik (6)](https://github.com/dotnet/coreclr/commits/release/2.1?author=adam.sitnik@gmail.com)
 * [Michal Strehovsk (5)](https://github.com/dotnet/coreclr/commits/release/2.1?author=michals@microsoft.com)
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 * [Ian Hays (5)](https://github.com/dotnet/coreclr/commits/release/2.1?author=ianha@microsoft.com)
 * [Levi Broderick (5)](https://github.com/dotnet/coreclr/commits/release/2.1?author=levib@microsoft.com)
 * [Eric Erhardt (5)](https://github.com/dotnet/coreclr/commits/release/2.1?author=eric.erhardt@microsoft.com)
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 * [Viktor Hofer (4)](https://github.com/dotnet/coreclr/commits/release/2.1?author=viktor.hofer@microsoft.com)
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1.70 system.runtime.extensions 4.3.0

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1.72 system.console 4.3.0

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1.73 moq/moq4 4.20.70

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1.74 system.text.encoding.extensions 4.3.0

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1.75 system.text.encoding 4.3.0

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1.76 system.io.compression.zipfile 4.3.0

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1.77

system.security.cryptography.x509certificate s 4.3.0

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1.78 system.collections 4.3.0

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1.79 system.runtime.interopservices 4.3.0

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1.80 system.collections.concurrent 4.3.0

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1.84 system.diagnostics.debug 4.3.0

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1.86 system.xml.readerwriter 4.3.0

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1.88 system.globalization 4.3.0

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1.89 system.reflection.metadata 1.6.0

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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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1.91 system.diagnostics.tools 4.3.0

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1. Mono (<http://www.mono-project.com/docs/about-mono/>)
Includes:mono/utils/memcheck.h
Includes:mono/utils/freebsd-dwarf.h
Includes:mono/utils/freebsd-elf_common.h
Includes:mono/utils/freebsd-elf64.h
Includes:mono/utils/freebsd-elf32.h
Includes:mono/utils/bsearch.c
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2. AngleSharp (<https://github.com/AngleSharp/AngleSharp>)
3. SimpleJson (<https://github.com/facebook-csharp-sdk/simple-json>)
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6. fast-text-encoding (<https://github.com/samthor/fast-text-encoding>)

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mono/utils/bsearch.c

* bsearch () implementation. Needed because some broken platforms
* have implementations that have unreasonable, non-standard
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1.96 system.resources.resourcemanager

4.3.0

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1.97

system.security.cryptography.algorithms

4.3.0

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1.103 system.objectmodel 4.3.0

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1.104 system.threading.timer 4.3.0

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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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John R. Hauser
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Bit Twiddling Hacks

By Sean Eron Anderson
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<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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1.106 runtime.native.system 4.3.0

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Bit Twiddling Hacks

By Sean Eron Anderson
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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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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>
```

</Project>

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1.108 system.diagnostics.tracing 4.3.0

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1.109

microsoft.extensions.dependencyinjection.ab stractions 6.0.0

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Martin Richards

23 February 2007

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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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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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1.110

runtime.native.system.security.cryptography. apple 4.3.0

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1.111 system.reflection.extensions 4.3.0

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1.112 system.reflection.emit.lightweight 4.3.0

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1.113 runtime.native.system.io.compression

4.3.0

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1.114 system.buffer 4.3.0

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1.115 runtime.native.system.net.http 4.3.0

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1.118 system.reflection.emit.ilgeneration 4.3.0

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1. Mono (<http://www.mono-project.com/docs/about-mono/>)

Includes:mono/utils/memcheck.h

Includes:mono/utils/freebsd-dwarf.h

Includes:mono/utils/freebsd-elf_common.h
Includes:mono/utils/freebsd-elf64.h
Includes:mono/utils/freebsd-elf32.h
Includes:mono/utils/bsearch.c
Includes:mono/metadata/w32file-unix-glob.c
Includes:mono/metadata/w32file-unix-glob.h
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mono/utils/bsearch.c

- * bsearch () implementation. Needed because some broken platforms
- * have implementations that have unreasonable, non-standard
- * requirements (e.g. "key must not be null"). Taken from NetBSD
- * with some minor modifications.

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4.3.0

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Martin Richards

23 February 2007

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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" />

<!--
  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 1.2.13, October 13th, 2022

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By Sean Eron Anderson
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John R. Hauser

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  <ProjectReference Include="$(TestLibraryProjectPath)" />
</ItemGroup>
</Project>
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.3.1, January 22nd, 2024

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You can contact the author at:

- xxHash homepage: <https://www.xxhash.com>

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1.124 system.globalization.calendars 4.3.0

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1.125 system.runtime.handles 4.3.0

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1.126 runtime.osx.10.10-x64.runtime.native.system.security.cryptography.apple 4.3.0

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1.127 microsoft.win32.primitives 4.3.0

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1.131 autofixture 4.18.1

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1.132 system.componentmodel.annotations 4.3.0

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1.133 system.text.encodings.web 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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By Sean Eron Anderson
seander@cs.stanford.edu

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1.134 microsoft.data.sqlclient 5.2.2

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zip/Microsoft.Data.SqlClient.5.2.2/lib/net462/de/Microsoft.Data.SqlClient.resources.dll: binary file matches

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zip/Microsoft.Data.SqlClient.5.2.2/runtimes/win/lib/netstandard2.1/Microsoft.Data.SqlClient.dll: binary file matches

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* /bin/grep

1.135 json web token handler for the microsoft .net framework 4.5 6.35.0

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/system-identitymodel-tokens-jwt-6-35-0-  
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1.136 system.runtime.caching 6.0.0

1.136.1 Available under license :

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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
seander@cs.stanford.edu

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version 1.2.11, January 15th, 2017

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1.142 system.reflection.emit 4.3.0

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1.143 nuget.frameworks 5.11.0

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1.144 [f]inite [a]utomata and [r]egular [e]xpressions 2.1.1

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1.145

microsoft.identity.client.extensions.msal

4.61.3

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ml

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1.146 microsoft.bcl.asyncinterfaces 1.1.1

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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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1.147 system.security.accesscontrol 6.0.0

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

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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://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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/* 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
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1.148 microsoft authentication library 4.61.3

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zip/Microsoft.Identity.Client.Extensions.Msal.4.61.3/lib/net6.0/Microsoft.Identity.Client.Extensions.Msal.xml

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1.149 azure.core 1.38.0

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zip/AWSSDK.SimpleSystemsManagement.3.7.403.18/lib/netcoreapp3.1/AWSSDK.SimpleSystemsManagement.xml
- * /awssdk-simplesystemsmanagement-3-7-403-18-
zip/AWSSDK.SimpleSystemsManagement.3.7.403.18/lib/netstandard2.0/AWSSDK.SimpleSystemsManagement.xml

1.161 azure-sdk-for-net 1.11.4

1.161.1 Available under license :

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