

Known issues with "profile" NGEN Images

Short description:

Some tools (e.g. [BugAid](#)) for performance reasons create a special kind of NGEN images ("Profile" images) for some of the .NET framework assemblies.

Due to a bug in the Microsoft .NET Profiling API, this leads to incorrect behaviour of the instrumenting profilers.

In case of [dotCover](#) and [dotTrace](#) you may get the following exception:

```
System.MissingMethodException: Method not found: 'Void  
System.Runtime.Versioning.TargetFrameworkAttribute.JetBrains_Profiler_Core_Instrumentation_Beg  
in(UIntPtr ByRef)
```

Full description:

When an IL instrumenting profiler detects that an NGEN /Profile assembly exists, this assembly is immediately loaded, even though in fact it cannot be instrumented.

According to Microsoft, this issue will be fixed in their next release: there will be a flag in the Profiling API that the instrumenting profiler can turn on, which will cause it to ignore the existence of NGEN /Profile assemblies and go back to JITing.

Workaround:

Removing "profile" NGEN images can help to get a quick fix for the issue.

This can be performed using the following commands:

- for Windows 32-bit:

```
%WinDir%\Microsoft.NET\Framework\<>version>\ngen.exe uninstall * /profile
```
- for Windows 64-bit:

```
%WinDir%\Microsoft.NET\Framework\<>version>\ngen.exe uninstall * /profile  
%WinDir%\Microsoft.NET\Framework64\<>version>\ngen.exe uninstall * /profile
```

Where <version> is the CLR version in following format: v<number>.<number>.<number> (for example v2.0.50727, v4.0.30319 etc.)

See also:

Related issue in our tracker: [DCVR-3090](#)