Namespace Dwyer.JitllVerification

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Classes Filter by title	
Provides as provides as provides as privated in the provides as the provides a	wyer.JitllVerification.VerifiableAssemblyLoader.html) th the same semantics as AssemblyLoadContext pi/system.runtime.loader.assemblyloadcontext). Any assemblies loaded ype/memory safety issues. Any unverifiable methods with throw an

Class VerifiableAssemblyLoader

Provides scoped assembly loading with the same semantics as AssemblyLoadContext

upon invocation - Dwyer. Jitll Verification

(Dwyer.JitllVerification.html)

Inheritance

VerifiableAssemblyLoader

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L VerifiableAssemblyLoader

Inherited Members

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: Dwyer (Dwyer.html).JitllVerification (Dwyer.JitllVerification.html)

Assembly: JitllVerification.dll

Syntax

public class VerifiableAssemblyLoader

Constructors

VerifiableAssemblyLoader()

Initializes a new instance of the VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html) class.

Declaration

public VerifiableAssemblyLoader()

VerifiableAssemblyLoader(bool)

Initializes a new instance of the VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html) class with a value that indicates whether unloading is enabled.

Declaration

public VerifiableAssemblyLoader(bool isCollectible)

Parameters

Type	Name	Description
bool - Dwyer.JitllVerification (https://learn.microsoft.com/dotnet/api/system.boolean/ptillVerification.html)	isCollectible	Whether this context should be able to unload.

VerifiableAssemblyLoader

(Dwyer.JitllVerification.VerifiableAss

VerifiableAssemblyLoader(string, bool)

Initializes a new instance of the VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html) class with a name and a value that indicates whether unloading is enabled.

Declaration

public VerifiableAssemblyLoader(string name, bool isCollectible)

Parameters

Туре	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	name	The display name of the load context.
bool (https://learn.microsoft.com/dotnet/api/system.boolea n)	isCollectible	Whether this context should be able to unload.

Properties

IsCollectible

Gets a value that indicates whether this VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html) is collectible.

Declaration

public bool IsCollectible { get; }

Property Value

Туре	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	

N∎me

Get the name of the VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html).

- Dwyer.JitllVerification
Declaration
(Dwyer.JitllVerification.html)

VerifiableAssemblyLoader public string: Name { get; } (Dwyer.JitllVerification.VerifiableAss

Property Value

Туре		Description
string (https://learn.microsoft.com/dot	net/api/system.string)	

Methods

InstrumentAssembly(AssemblyDefinition)

Adds verification guards to all methods in the assembly. The first time that any method is invoked, it will call the verifier on itself.

Declaration

protected virtual void InstrumentAssembly(AssemblyDefinition assembly)

Parameters

Туре		Name	Description
Assembly Definition (https://github.com/jbevain/cecil/blob/ 0aa508c/Mono.Cecil/Assembly Definition	/8c123e16bd0d693afc9932da85e1c9e74 on.cs)	assembly	The assembly to instrument.

Load(AssemblyName)

When overridden in a derived class, allows an assembly to be resolved based on its AssemblyName (https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname).

Declaration

Parameters

Тұре	Name	Description
AssemblyName (https://learn.microsoft.com/dotnet/api/system.reflectio - Dwyer.JitllVerification n.assemblyname) (Dwyer.JitllVerification.html)	,	The object that describes the assembly to be resolved.

Retu\(\text{Retu}\)\(\text{Fisite}\) ifiable Assembly Loader

(Dwyer.JitllVerification.VerifiableAss Type	Description
Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly)	The resolved assembly, or null.

LoadFromAssemblyName(AssemblyName)

Resolves and loads an assembly given its AssemblyName (https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname).

Declaration

public Assembly LoadFromAssemblyName(AssemblyName assemblyName)

Parameters

Туре		Name	Description
AssemblyName (https://learn.microsoft.com/dotnet/apssemblyname)	i/system.reflection.a	assemblyName	The object that describes the assembly to load.

Returns

Туре		Description
Assembly (https://learn.microsoft.com/	dotnet/api/system.reflection.assembly)	The resolved assembly, or null .

LoadFromAssemblyPath(string)

Loads the contents of an assembly file on the specified path.

Declaration

public Assembly LoadFromAssemblyPath(string assemblyPath)

Parameters

Туре	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	assemblyPath	The fully qualified path of the file to load.

Returns

Туре	Description
-ADwyely_Jittl\/e/rificationosoft.com/dotnet/api/system.reflection.assembly)	The loaded assembly.

(Dwyer.JitllVerification.html)

VerifiableAssemblyLoader

LoadFromStream(Stream)eAss

Loads the assembly with a common object file format (COFF)-based image containing a managed assembly.

Declaration

public Assembly LoadFromStream(Stream assembly)

Parameters

Туре	Name	Description
Stream (https://learn.microsoft.com/dotnet/api, m.io.stream)	assembly	A byte array that is a COFF-based image containing a managed assembly.

Returns

Туре		Description
Assembly (https://learn.microsoft.com/	dotnet/api/system.reflection.assembly)	The loaded assembly.

LoadFromStream(Stream, Stream?)

Loads the assembly with a common object file format (COFF)-based image containing a managed assembly, optionally including symbols for the assembly.

Declaration

public Assembly LoadFromStream(Stream assembly, Stream? assemblySymbols)

Parameters

Туре	Name	Description
Stream (https://learn.microsoft.com/dotnet/ap i/system.io.stream)	assembly	A byte array that is a COFF-based image containing a managed assembly.

Туре	Name	Description
Stream (https://learn.microsoft.com/dotnet/ap i/system.io.stream)	assemblySymbols	A byte array that contains the raw bytes representing the symbols for the assembly.

Returns

Type - Dwyer.JitllVerification	Description
Appropriation of the property	The loaded assembly.

Verifiable Assembly Loader (Dwyer. Jitll Verification. Verifiable Ass

LoadUnmanagedDll(string)

Allows derived class to load an unmanaged library by name.

Declaration

protected virtual nint LoadUnmanagedDll(string unmanagedDllName)

Parameters

Туре	Na	me	Description
string (https://learn.microsoft.com/dotn et/api/system.string)	un	managedDllName	Name of the unmanaged library. Typically this is the filename without its path or extensions.

Returns

Туре	Description
nint (https://learn.microsoft.com/dotnet/api/ system.intptr)	A handle to the loaded library, or Zero (https://learn.microsoft.com/dotnet/api/system.intptr.zero).

${\bf Load Unmanaged Dll From Path (string)}$

Loads an unmanaged library from the specified path.

Declaration

protected nint LoadUnmanagedDllFromPath(string unmanagedDllPath)

Parameters

Туре	Name	Description
string	unmanagedDllPath	The path to the unmanaged
(https://learn.microsoft.com/dotnet/api/system.string)		library.

Returns

Туре	Description
nint (https://learn.microsoft.com/dotnet/api/system.intptr)	The OS handle for the loaded native library.

T

SetProfileOptimizationRoot(string)

Se**DwyersJitHalerification** optimization profiles for this load context are stored.

(Dwyer.JitllVerification.html) Declaration

VerifiableAssemblyLoader

(Dwyer Jitll Verification Verifiable Asspublic void SetProfileOptimizationRoot(string directoryPath)

Parameters

Туре		Name	Description
string (https://learn.microsoft.com/dotnet/api/stem.string)	/sy	directoryPath	The full path to the directory where the optimization profiles are stored.

StartProfileOptimization(string?)

Starts the profile optimization for the specified profile.

Declaration

public void StartProfileOptimization(string? profile)

Parameters

Туре	Name	Description
string (https://learn.microsoft.com/dot	net/api/system.string) profile	The name of the optimization profile.

Unload()

Initiates an unload of this VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html).

Declaration

public void Unload()

Events

Resolving

Occurs when the resolution of an assembly fails when attempting to load into this assembly load context.

Declaration

Dwyer.JitllVerification
 public event Func<AssemblyLoadContext, AssemblyName, Assembly?>? Resolving
 (Dwyer.JitllVerification.html)

Verifiable Assembly Loader **Event Type**(Dwyer. Jitll Verification. Verifiable Ass

Туре	Description
Func (https://learn.microsoft.com/dotnet/api/system.func-3) <	
AssemblyLoadContext	
(https://learn.microsoft.com/dotnet/api/system.runtime.loader.assemblyloadcontext)	
, AssemblyName (https://learn.microsoft.com/dotnet/api/system.reflection.assemblyname),	
Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly)>	

ResolvingUnmanagedDll

Occurs when the resolution of a native library fails.

Declaration

public event Func<Assembly, string, nint>? ResolvingUnmanagedDll

Event Type

Туре		Description
Func (https://learn.microsoft.com/dotn	et/api/system.func-3) <	
Assembly (https://learn.microsoft.com/	dotnet/api/system.reflection.assembly),	
string (https://learn.microsoft.com/dot	net/api/system.string),	
nint (https://learn.microsoft.com/dotne	rt/api/system.intptr) >	

Unloading

Occurs when the VerifiableAssemblyLoader (Dwyer.JitllVerification.VerifiableAssemblyLoader.html) is unloaded.

Declaration

public event Action<AssemblyLoadContext>? Unloading

Event Type

Туре	Description
Action (https://learn.microsoft.com/dotnet/api/system.action-1) <	
AssemblyLoadContext	
(https://learn.microsoft.com/dotnet/api/system.runtime.loader.assemblyloadcontext)	
>	

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