Namespace Douglas Dwyer. Jitll Verification

on. Verifiable Assembly Loader. 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 (https://tea.www.httlerosoft.com/dotnet/api/system.runtime.loader.assemblyloadcontext). Any assemblies loaded with this context will be checked for type/memory safety issues. Any unverifiable methods with throw an exception

upon invocation - **Douglas Dwyer. Jitll**

Verification

Inheritance (Douglas Dwyer. Jitll Verification

- Ly object (https://learn.microsoft.com/dotnet/api/system.object)
 - L Verifiable Assembly Loader Verification. Verif

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: DouglasDwyer (DouglasDwyer.html).JitllVerification (DouglasDwyer.JitllVerification.html)

Assembly: JitllVerification.dll

Syntax

public class VerifiableAssemblyLoader

Constructors

VerifiableAssemblyLoader()

Initializes a new instance of the Verifiable Assembly Loader (Douglas Dwyer. Jitll Verification. Verifiable Assembly Loader. html) class.

Declaration

public VerifiableAssemblyLoader()

VerifiableAssemblyLoader(bool)

Initializes a new instance of the VerifiableAssemblyLoader

(DouglasDwyer.JitllVerification.VerifiableAssemblyLoader.html) class with a value that indicates whether unloading is enabled.

Declaration

▼public VerifiableAssemblyLoader(bool isCollectible)

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Verification Type (DouglasDwyer.JitllVerification	Name	Description
bool VerifiableAssemblyLoader (https://learn.microsoft.com/dotnet/api/system.boolea (DouglasDwyer.JitllVerification.Verif n)	isCollectible	Whether this context should be able to unload.

VerifiableAssemblyLoader(string, bool)

Initializes a new instance of the VerifiableAssemblyLoader

(Douglas Dwyer. Jitll Verification. Verifiable Assembly Loader. 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 (DouglasDwyer.JitllVerification.VerifiableAssemblyLoader.html) is collectible.

Declaration

Property Value

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

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Get the finale বৈশ্বভাগে Assembly Loader (Douglas Dwyer. Jitll Verification. Verifiable Assembly Loader. html). (Douglas Dwyer. Jitll Verification. Verifiable Assembly Loader (Douglas Dwyer. Jitll Verification. Verifiable Assembly Loader. html).

Declaration

public string? Name { get; }

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

_protected virtual Assembly? Load(AssemblyName assemblyName)



Parameters

- DouglasDwyer.Jitll Type Verification	Name	Description
A(DouglasDwyer.JitllVerification (https://learn.microsoft.com/dotnet/api/system.reflectio VerifiableAssemblyLoader n.assemblyname) (DouglasDwyer.JitllVerification.Verif	assemblyName	The object that describes the assembly to be resolved.

Returns

Туре		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)	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

Parameters

T <u>y</u> pe	Name	Description
string	assemblyPath	The fully qualified path of the file to
(https://learn.microsoft.com/dotnet/api/system.string)		load.

Verification
Returns

(DouglasDwyer.JitllVerification

Type VerifiableAssemblyLoader	Description
	The loaded assembly.

LoadFromStream(Stream)

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

Declaration

public Assembly LoadFromStream(Stream assembly)

Parameters

Туре	Na	ame	Description
Stream (https://learn.microsoft.com/dotnet/api/sm.io.stream)		•	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/api/system.io.stream)	assembly	A byte array that is a COFF-based image containing a managed assembly.
Syeam (https://learn.microsoft.com/dotnet/api/system.io.stream)	assemblySymbols	A byte array that contains the raw bytes representing the symbols for the assembly.

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Verification

(Douglas Dwyer. Jit II Verification Type Verifiable Assembly Loader	Description
Assently வெருவிகள்ள விருவிக்கு வ	The loaded assembly.

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/dotnet/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).

LoadUnmanagedDllFromPath(string)

Loads an unmanaged library from the specified path.

Declaration

protected nint LoadUnmanagedDllFromPath(string unmanagedDllPath)

Parameters

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

R	<u>et</u> u	rn	S

Туре	Description
-n Db/hglas/DwyenJittk soft.com/dotnet/api/system.intptr)	The OS handle for the loaded native library.

Verification

(Douglas Dwyer. Jitll Verification

SetProfileOptimizationRoot(string)

(DouglasDwyer.JitllVerification.Verif Sets the root path where the optimization profiles for this load context are stored.

Declaration

public 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 (DouglasDwyer.JitllVerification.VerifiableAssemblyLoader.html).

Declaration

Events

- DouglasDwyer.Jitll Resolving Verification

Od Douglas Dwyesolith Verification bly fails when attempting to load into this assembly load context.

Declaration Declaration

(Douglas Dwyer. Jitll Verification. Verif

public event Func<AssemblyLoadContext, AssemblyName, Assembly?>? Resolving

Event Type

Туре		Description
Func (https://learn.microsoft.com/dotr	et/api/system.func-3) <	
AssemblyLoadContext		
(https://learn.microsoft.com/dotnet/ap	i/system.runtime.loader.assemblyloadcontext)	
, AssemblyName (https://learn.microsc	ft.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/dotnet/api/system.func-3) <	
Assembly (https://learn.microsoft.com/dotnet/api/system.reflection.assembly),	
string (https://learn.microsoft.com/dotnet/api/system.string),	
nint (https://learn.microsoft.com/dotnet/api/system.intptr)>	

Unloading

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

Declaration

public event Action<AssemblyLoadContext>? Unloading

Event Type		
Type		Description
Action (https://learn.microsoft.com/d- DouglasDwyer.Jitll AssemblyLoadContext (https://learn.microsoft.com/dotnet/a >(DouglasDwyer.JitllVerificatio	pi/system.runtime.loader.assemblyloadcontext)	

Verifiable Assembly Loader (Douglas Dwyer. Jitll Verification. Verif