

Mvx2BasicIONet

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1 Mantis Vision: Mvx2BasicIO	1
2 Release Notes	3
3 Namespace Index	9
3.1 Packages	9
4 Hierarchical Index	11
4.1 Class Hierarchy	11
5 Class Index	13
5.1 Class List	13
6 Namespace Documentation	15
6.1 Mvx2BasicIO Namespace Reference	15
7 Class Documentation	17
7.1 Mvx2BasicIO.Mvx2FileAsyncReader Class Reference	17
7.1.1 Detailed Description	17
7.1.2 Constructor & Destructor Documentation	17
7.1.2.1 Mvx2FileAsyncReader()	18
7.1.3 Member Function Documentation	18
7.1.3.1 Play()	18
7.1.3.2 Stop()	18
7.2 Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode Class Reference	19
7.2.1 Detailed Description	19
7.2.2 Member Enumeration Documentation	19
7.2.2.1 FullBehaviour	19
7.2.3 Constructor & Destructor Documentation	20
7.2.3.1 Mvx2FileAsyncWriterGraphNode()	20
7.2.4 Member Function Documentation	20
7.2.4.1 EnableRecording()	20
7.2.4.2 GetDroppedFramesCount()	21
7.2.4.3 SetFilePath()	21
7.2.4.4 SetFullBehaviour()	21
7.3 Mvx2BasicIO.Mvx2FileBasicDataInfo Class Reference	21
7.3.1 Detailed Description	22
7.3.2 Constructor & Destructor Documentation	22
7.3.2.1 Mvx2FileBasicDataInfo()	23
7.3.3 Member Function Documentation	23
7.3.3.1 CanRenderThumbnail()	23
7.3.3.2 GetFirstFrame()	23
7.3.3.3 GetFPS()	23
7.3.3.4 GetNumFrames()	24

7.3.3.5 HasAudio()	24
7.3.3.6 HasColors()	24
7.3.3.7 HasColorTexture()	24
7.3.3.8 HasDepthMap()	25
7.3.3.9 HasIndices()	25
7.3.3.10 HasIRTexture()	25
7.3.3.11 HasNormals()	25
7.3.3.12 HasUVs()	26
7.3.3.13 HasVertices()	26
7.3.3.14 IsSingleFrame()	26
7.3.3.15 IsValid()	26
7.3.3.16 RenderThumbnail()	26
7.4 Mvx2BasicIO.Mvx2FileRandomAccessReader Class Reference	27
7.4.1 Detailed Description	27
7.4.2 Constructor & Destructor Documentation	27
7.4.2.1 Mvx2FileRandomAccessReader()	27
7.4.3 Member Function Documentation	28
7.4.3.1 ReadFrame()	28
7.5 Mvx2BasicIO.Mvx2FileReaderGraphNode Class Reference	28
7.5.1 Detailed Description	28
7.5.2 Constructor & Destructor Documentation	28
7.5.2.1 Mvx2FileReaderGraphNode()	28
7.5.3 Member Function Documentation	29
7.5.3.1 SetFilePath()	29
7.6 Mvx2BasicIO.Mvx2FileSyncReader Class Reference	29
7.6.1 Detailed Description	29
7.6.2 Constructor & Destructor Documentation	29
7.6.2.1 Mvx2FileSyncReader()	29
7.6.3 Member Function Documentation	30
7.6.3.1 ReadNextFrame()	30
7.7 Mvx2BasicIO.Mvx2FileWriterGraphNode Class Reference	30
7.7.1 Detailed Description	31
7.7.2 Constructor & Destructor Documentation	31
7.7.2.1 Mvx2FileWriterGraphNode()	31
7.7.3 Member Function Documentation	31
7.7.3.1 EnableRecording()	31
7.7.3.2 SetFilePath()	31
7.8 Mvx2BasicIO.NetworkReceiverGraphNode Class Reference	33
7.8.1 Detailed Description	33
7.8.2 Constructor & Destructor Documentation	33
7.8.2.1 NetworkReceiverGraphNode() [1/2]	33
7.8.2.2 NetworkReceiverGraphNode() [2/2]	34

7.8.3 Member Function Documentation	34
7.8.3.1 SetSockets()	34
7.8.3.2 SetUnsupportedTransmitterProtocolVersions()	35
7.9 Mvx2BasicIO.NetworkTransmitterGraphNode Class Reference	35
7.9.1 Detailed Description	36
7.9.2 Constructor & Destructor Documentation	36
7.9.2.1 NetworkTransmitterGraphNode() [1/2]	36
7.9.2.2 NetworkTransmitterGraphNode() [2/2]	36
7.9.3 Member Function Documentation	37
7.9.3.1 EnableTransmission()	37
7.9.3.2 GetDroppedAtomsCount()	37
7.9.3.3 SetSockets()	37
7.9.3.4 SetUnsupportedReceiverProtocolVersions()	38
Index	39

Chapter 1

Mantis Vision: Mvx2BasicIO

An extension module of *Mvx2* for file and network data accessing and storing.

Description

[Mvx2BasicIO](#) is a collection of classes and functions which together form an extension of the core *Mvx2* (*Mvx2* is documented in a dedicated document). The extension's emphasis is on working with Mvx2-formatted files and network streaming.

Following is a quick overview of the [Mvx2BasicIO](#)'s purpose and features:

- provides graph nodes for accessing (reading and writing) Mvx2-formatted files,
- provides graph nodes for accessing (transmission and reception) Mvx2 network streams,
- provides utility for fast extraction of basic data information about Mvx2 files.

File Access

The extension provides multiple graph node implementations related to access to Mvx2-formatted files. The most basic are:

- [Mvx2BasicIO.Mvx2FileReaderGraphNode](#) for reading frame data from Mvx2-formatted files and
- [Mvx2BasicIO.Mvx2FileWriterGraphNode](#) for writing processed frames to Mvx2-formatted files.

Furthermore, the extension provides an utility class [Mvx2BasicIO.Mvx2FileBasicDataInfo](#), which provides a fast access to the most basic queries related to content of Mvx2-formatted files (e.g. number of frames in a file), but it is also able to read the very first frame from the file, so any more advanced queries can be performed as well.

Networking

Another collection of classes of the extension adds support for streaming Mvx2 data over network:

- [Mvx2BasicIO.NetworkReceiverGraphNode](#) for reception of frame data from a network stream and
- [Mvx2BasicIO.NetworkTransmitterGraphNode](#) for transmission of processed frames via a network stream.

Details

Compiled using SuperNetwork plugin version 4.2.1 and MVX2File plugin version 3.3.1.

Chapter 2

Release Notes

1.0.0

Initial version.

Module

- **1.0.0_M1** | renamed `NetworkTransmitterGraphNode::GetDroppedFramesCount()` and `NetworkTransmitterGraphNode::ResetDroppedFramesCounter()` functions to `MVGraphAPI::NetworkTransmitterGraphNode::GetDroppedAtomsCount()` "`NetworkTransmitterGraphNode::GetDroppedAtomsCount()`" and `MVGraphAPI::NetworkTransmitterGraphNode::ResetDroppedAtomsCounter()` "`NetworkTransmitterGraphNode::ResetDroppedAtomsCounter()`" respectively

Documentation

- **1.0.0_D1** | added 'release notes' section
- **1.0.0_D2** | added/updated missing API reference documentation
- **1.0.0_D3** | switched documentation from xml-style comments to doxygen-style comments

Build support

- **1.0.0_BS1** | introduced `MVGraph_SimpleAPIConfig.cmake`, `MVGraph_SimpleAPINetConfig.cmake` and `MVGraph_SimpleAPINet_iOSConfig.cmake`

Samples

- **1.0.0_S1** | introduced `MVGraph_SimpleAPIDemo` and `MVGraph_SimpleAPINetDemo` samples for showcasing usage of `MVGraph_SimpleAPI` extension of `MVGraphAPI` (both samples are compiled using `cmake` and include python scripts for their simple compilation and execution)

2.0.0

Module

- **2.0.0_M1** | updated `Mvx2` 3rdparty dependency to version 3.0.0
- **2.0.0_M2** | updated `SuperNetwork` plugin to 2.0.0
- **2.0.0_M3** | updated `MVX2File` plugin to 2.0.0
- **2.0.0_M4** | introduced `MVGraphAPI::Mvx2FileAsyncWriterGraphNode` "Mvx2FileAsyncWriterGraphNode", which performs writing operation from standalone writing thread asynchronously, as an alternative to `MVGraphAPI::Mvx2FileWriterGraphNode` "Mvx2FileWriterGraphNode"

Build support

- **2.0.0_BS1** | size of Android and LuminOS libraries reduced by ~90%
- **2.0.0_BS2** | android API level raised from 19 to 21
- **2.0.0_BS3** | Linux and MacOS binaries do not consist of a versioned library file and a version-neutral symlink file anymore - the library file itself has version-neutral name

3.0.0

Module

- **3.0.0_M1** | updated `Mvx2` 3rdparty dependency to version 4.0.0
- **3.0.0_M2** | updated `SuperNetwork` plugin to 3.0.0
- **3.0.0_M3** | updated `MVX2File` plugin to 3.0.0
- **3.0.0_M4** | removed `MVGraphAPI::AutoCompressorGraphNode` and `MVGraphAPI::AutoDecompressorGraphNode` since `Mvx2` now contains their alternatives
- **3.0.0_M5** | removed `MVGraphAPI::InjectFileDataGraphNode` and `MVGraphAPI::InjectMemoryDataGraphNode` since `Mvx2` now contains their alternatives
- **3.0.0_M6** | removed `MVGraphAPI::MeshData` and `MVGraphAPI::MeshSplitter` since `Mvx2` now contains their alternatives
- **3.0.0_M7** | removed `MVGraphAPI::SimpleDataLayersGuids` since `Mvx2` now contains its alternative
- **3.0.0_M8** | removed frame data extractors since `Mvx2` now contains their alternatives:
 - `MVGraphAPI::FrameAudioExtractor`
 - `MVGraphAPI::FrameMeshExtractor`
 - `MVGraphAPI::FrameMiscDataExtractor`
 - `MVGraphAPI::FrameTextureExtractor`
- **3.0.0_M9** | renamed `MVGraph_SimpleAPI` module to `Mvx2BasicIO`:
 1. `MVGraph_SimpleAPI` product renamed to `Mvx2BasicIO`
 2. public header files of `MVGraph_SimpleAPI` moved to `include/Mvx2BasicIO` directory
 3. `MVGraphAPI` namespace renamed to `Mvx2BasicIO`
 4. `MVGraph_SimpleAPI.zip` file containing `MVGraph_SimpleAPI/Mvx2BasicIO` documentation renamed to `Mvx2BasicIO.zip`

5. updated [Mvx2BasicIO](#) documentation
 6. introduced [Mvx2BasicIO](#)'s own export macro `MVX2BASICIO_API` defined in file `Mvx2BasicIO/↔Mvx2BasicIO.h` instead of reusing `Mvx2`'s `MVX2_API`
 7. `MVGraph_SimpleAPIConfig.cmake` `cmake-build` file updated and renamed to `Mvx2Basic↔IOConfig.cmake`
- **3.0.0_M10** | renamed `MVGraph_SimpleAPINet` module to `Mvx2BasicIONet`:
 1. `MVGraph_SimpleAPI` product renamed to [Mvx2BasicIO](#)
 2. `MVGraphAPI` namespace renamed to [Mvx2BasicIO](#)
 3. `MVGraph_SimpleAPINet.zip` file containing `MVGraph_SimpleAPINet/Mvx2BasicIONet` documentation renamed to `Mvx2BasicIONet.zip`
 4. updated `Mvx2BasicIONet` documentation
 5. `MVGraphAPI::MVGraph_SimpleAPINetConstants` class renamed to `Mvx2BasicIO::↔Constants` and its `MV_GRAPH_SIMPLE_API_INTEROP_DLL` field to `INTEROP_DLL`
 6. `MVGraph_SimpleAPIConfig.cmake` and `MVGraph_SimpleAPINet_iOSConfig.↔cmake` `cmake-build` files updated and renamed to `Mvx2BasicIONetConfig.cmake` and `Mvx2↔BasicIONet_iOSConfig.cmake` respectively
 - **3.0.0_M11** | renamed `Mvx2BasicIO::Mvx2FileSimpleDataInfo` class to [Mvx2BasicIO::Mvx2FileBasicDat](#)

Samples

- **3.0.0_S1** | renamed `MVGraph_SimpleAPIDemo` and `MVGraph_SimpleAPINetDemo` to `Mvx2↔BasicIODemo` and `Mvx2BasicIONetDemo` respectively
- **3.0.0_S2** | updated sources and support scripts of `Mvx2BasicIODemo` and `Mvx2BasicIONetDemo` for latest `Mvx2(Net)` and `Mvx2BasicIO(Net)`

3.1.0

Module

- **3.1.0_M1** | updated `SuperNetwork` plugin to 4.0.0 (experimental IPv6 support)
- **3.1.0_M2** | added an option to enable experimental IPv6 support in [Mvx2BasicIO.NetworkTransmitterGraphNode](#) and [Mvx2BasicIO.NetworkReceiverGraphNode](#) graph nodes:
 - the feature may not work on all platforms as expected and may even prevent correct functioning of IPv4 communication
 - introduced `enableIPv6` parameter to [Mvx2BasicIO.NetworkTransmitterGraphNode](#) constructors with `false` as default value
 - introduced `enableIPv6` parameter to [Mvx2BasicIO.NetworkTransmitterGraphNode.SetSockets](#) with `false` as default value
 - introduced `enableIPv6` parameter to [Mvx2BasicIO.NetworkReceiverGraphNode](#) constructors with `false` as default value
 - introduced `enableIPv6` parameter to [Mvx2BasicIO.NetworkReceiverGraphNode.SetSockets](#) with `false` as default value

4.0.0

Module

- **4.0.0_M1** | updated `MVCommon` 3rdparty dependency to version 3.0.0
- **4.0.0_M2** | updated `Mvx2` 3rdparty dependency to version 5.0.0
- **4.0.0_M3** | updated `SuperNetwork` plugin to 4.1.0
- **4.0.0_M4** | updated `MVX2File` plugin to 3.1.0

Build support

- **4.0.0_BS1** | CMake minimal required version increased from 3.9 to 3.14
 - updated `Mvx2BasicIOConfig.cmake`, `Mvx2BasicIONetConfig.cmake` and `Mvx2BasicIONet_iOSConfig.cmake` scripts and their dependencies

Samples

- **4.0.0_S1** | extended `Mvx2BasicIODemo` and `Mvx2BasicIONetDemo` samples to print data profiles of frames during the inspection (a new feature introduced to `Mvx2` with version 5.0.0)
- **4.0.0_S2** | CMake minimal required version increased from 3.9 to 3.14
 - updated `CMakeLists.txt` of `Mvx2BasicIODemo` sample
 - updated `CMakeLists.txt` of `Mvx2BasicIONetDemo` sample
- **4.0.0_S3** | updated `Mvx2BasicIODemo` and `Mvx2BasicIONetDemo` samples' `CMakeLists.txt` and `make.py` scripts to expect `MVCommon` and `Mvx2` dependencies and `MVX2File` and `SuperNetwork` plugins on a potentially different path than [Mvx2BasicIO](#) dependency
 - introduced `build/local_config/mvcommon_root_dir.cfg` config files inside the samples root directories, which shall specify a path to the `MVCommon` root directory
 - introduced `build/local_config/mvx2_root_dir.cfg` config files inside the samples root directories, which shall specify a path to the `Mvx2` root directory
 - introduced `build/local_config/mvx2file_root_dir.cfg` config files inside the samples root directories, which shall specify a path to the `MVX2File` root directory
 - introduced `build/local_config/supernetwork_root_dir.cfg` config files inside the samples root directories, which shall specify a path to the `SuperNetwork` root directory

5.0.0

Module

- **5.0.0_M1** | updated `MVCommon` 3rdparty dependency to version 4.0.0
- **5.0.0_M2** | updated `Mvx2` 3rdparty dependency to version 6.0.0
- **5.0.0_M3** | updated `SuperNetwork` plugin to 4.2.0
- **5.0.0_M4** | updated `MVX2File` plugin to 3.3.0

Build support

- **5.0.0_BS1** | from now on the windows libraries are compiled using msvc compiler version 142 (VS 2019)
- **5.0.0_BS2** | upgraded `cmake/toolchains/ios.cmake` toolchain file used for building for iOS platform

Documentation

- **5.0.0_D1** | introduced PDF documentation as an alternative to the HTML one:
 - `doc/Mvx2BasicIO.pdf`
 - `doc/Mvx2BasicIONet.pdf`

Samples

- **5.0.0_S1** | from now on the windows libraries of the samples are compiled using msvc compiler version 142 (VS 2019)

Chapter 3

Namespace Index

3.1 Packages

Here are the packages with brief descriptions (if available):

Mvx2BasicIO	15
---------------------------------------	----

Chapter 4

Hierarchical Index

4.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

GraphNode	
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode	19
Mvx2BasicIO.Mvx2FileReaderGraphNode	28
Mvx2BasicIO.Mvx2FileWriterGraphNode	30
Mvx2BasicIO.NetworkReceiverGraphNode	33
Mvx2BasicIO.NetworkTransmitterGraphNode	35
Mvx2BasicIO.Mvx2FileAsyncReader	17
Mvx2BasicIO.Mvx2FileRandomAccessReader	27
Mvx2BasicIO.Mvx2FileSyncReader	29
NativeObjectHolder	
Mvx2BasicIO.Mvx2FileBasicDataInfo	21

Chapter 5

Class Index

5.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Mvx2BasicIO.Mvx2FileAsyncReader	
A sequential reader of MVX2 files with an asynchronous access to processed frames	17
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode	
A target graph node for asynchronous writing frames to an MVX2 file	19
Mvx2BasicIO.Mvx2FileBasicDataInfo	
A provider of basic data information about an MVX2 file	21
Mvx2BasicIO.Mvx2FileRandomAccessReader	
A sequential reader of MVX2 files with a random access to processed frames	27
Mvx2BasicIO.Mvx2FileReaderGraphNode	
A source graph node for reading frames from an MVX2 file	28
Mvx2BasicIO.Mvx2FileSyncReader	
A sequential reader of MVX2 files with a synchronous access to processed frames	29
Mvx2BasicIO.Mvx2FileWriterGraphNode	
A target graph node for writing frames to an MVX2 file	30
Mvx2BasicIO.NetworkReceiverGraphNode	
A source graph node for reception of frames via network	33
Mvx2BasicIO.NetworkTransmitterGraphNode	
A target graph node for transmission of frames via network	35

Chapter 6

Namespace Documentation

6.1 Mvx2BasicIO Namespace Reference

Classes

- class [Mvx2FileAsyncReader](#)
A sequential reader of MVX2 files with an asynchronous access to processed frames.
- class [Mvx2FileAsyncWriterGraphNode](#)
A target graph node for asynchronous writing frames to an MVX2 file.
- class [Mvx2FileBasicDataInfo](#)
A provider of basic data information about an MVX2 file.
- class [Mvx2FileRandomAccessReader](#)
A sequential reader of MVX2 files with a random access to processed frames.
- class [Mvx2FileReaderGraphNode](#)
A source graph node for reading frames from an MVX2 file.
- class [Mvx2FileSyncReader](#)
A sequential reader of MVX2 files with a synchronous access to processed frames.
- class [Mvx2FileWriterGraphNode](#)
A target graph node for writing frames to an MVX2 file.
- class [NetworkReceiverGraphNode](#)
A source graph node for reception of frames via network.
- class [NetworkTransmitterGraphNode](#)
A target graph node for transmission of frames via network.

Chapter 7

Class Documentation

7.1 Mvx2BasicIO.Mvx2FileAsyncReader Class Reference

A sequential reader of MVX2 files with an asynchronous access to processed frames.

Public Member Functions

- [Mvx2FileAsyncReader](#) (MVCommon.String filePath, Mvx2API.FrameListener frameListener, float fps=[FPS_FROM_SOURCE](#))
A constructor.
- bool [Play](#) (Mvx2API.RunnerPlaybackMode playbackMode, bool blockUntilStopped=false)
Starts the file reading.
- bool [Stop](#) ()
Stops the file reading.

Static Public Attributes

- const float [FPS_MAX](#) = 0.0f
A special framerate value indicating that the maximal possible framerate shall be used.
- const float [FPS_FROM_SOURCE](#) = -1.0f
A special framerate value indicating that the framerate of an open source shall be used.
- const float [FPS_FPS_HALF_FROM_SOURCE](#) = -2.0f
A special framerate value indicating that the half of the framerate of an open source shall be used.
- const float [FPS_DOUBLE_FROM_SOURCE](#) = -3.0f
A special framerate value indicating that the double of the framerate of an open source shall be used.

7.1.1 Detailed Description

A sequential reader of MVX2 files with an asynchronous access to processed frames.

7.1.2 Constructor & Destructor Documentation

7.1.2.1 Mvx2FileAsyncReader()

```
Mvx2BasicIO.Mvx2FileAsyncReader.Mvx2FileAsyncReader (
    MVCommon.String filePath,
    Mvx2API.FrameListener frameListener,
    float fps = FPS_FROM_SOURCE )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to read
<i>frameListener</i>	an asynchronous frames listener
<i>fps</i>	a framerate to follow

Exceptions

<i>System.InvalidOperationException</i>	raised in case the internal graph could not be created
---	--

7.1.3 Member Function Documentation

7.1.3.1 Play()

```
bool Mvx2BasicIO.Mvx2FileAsyncReader.Play (
    Mvx2API.RunnerPlaybackMode playbackMode,
    bool blockUntilStopped = false )
```

Starts the file reading.

Can be executed synchronously in case `blockUntilStopped` is set to true, or asynchronously when set to false.

Parameters

<i>playbackMode</i>	a playback mode of the reading
<i>blockUntilStopped</i>	an indication whether to block the call until the reading is stopped implicitly

Returns

true if the file reading successfully started

7.1.3.2 Stop()

```
bool Mvx2BasicIO.Mvx2FileAsyncReader.Stop ( )
```

Stops the file reading.

Returns

true if the file reading successfully stopped

The documentation for this class was generated from the following file:

- public/util/Mvx2FileAsyncReader.cs

7.2 Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode Class Reference

A target graph node for asynchronous writing frames to an MVX2 file.

Inherits `GraphNode`.

Public Types

- enum `FullBehaviour` { `FullBehaviour.FB_DROP_FRAMES`, `FullBehaviour.FB_BLOCK_FRAMES` }
Enumeration of supported behaviours when the buffer of frames is full.

Public Member Functions

- `Mvx2FileAsyncWriterGraphNode` (MVCommon.String filePath, bool enableRecording=true, UInt32 bufferSize=3, `FullBehaviour` fullBehaviour=`FullBehaviour.FB_DROP_FRAMES`)
A constructor.
- void `EnableRecording` (bool enable=true)
Enables/disables actual recording to the MVX2 file.
- void `SetFilePath` (MVCommon.String filePath)
Changes the path of the MVX2 file to write to.
- void `SetFullBehaviour` (`FullBehaviour` fullBehaviour)
Sets a full-behaviour - action to perform when the buffer of frames becomes full.
- UInt64 `GetDroppedFramesCount` ()
Gets a value of internal counter of dropped frames.
- void `ResetDroppedFramesCounter` ()
Resets the internal counter of dropped frames to zero.

7.2.1 Detailed Description

A target graph node for asynchronous writing frames to an MVX2 file.

Asynchronous writing means that frames are pushed to a buffer from the pipeline thread and are pulled from the buffer and written to a file from a standalone writing thread.

Internally maintains a single writing filter. The same filter is reused even when the graph node is added to multiple graphs.

7.2.2 Member Enumeration Documentation

7.2.2.1 FullBehaviour

```
enum Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.FullBehaviour [strong]
```

Enumeration of supported behaviours when the buffer of frames is full.

Enumerator

FB_DROP_FRAMES	When buffer is full, new frames from pipeline are dropped and pipeline continues its execution.
FB_BLOCK_FRAMES	When buffer is full, pipeline thread is blocked until there is some free space in the buffer.

7.2.3 Constructor & Destructor Documentation

7.2.3.1 Mvx2FileAsyncWriterGraphNode()

```
Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.Mvx2FileAsyncWriterGraphNode (
    MVCommon.String filePath,
    bool enableRecording = true,
    UInt32 bufferSize = 3,
    FullBehaviour fullBehaviour = FullBehaviour.FB_DROP_FRAMES )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to write to
<i>enableRecording</i>	an indication whether the recording shall be enabled right away
<i>bufferSize</i>	a size of frames buffer
<i>fullBehaviour</i>	an initial full-behaviour

7.2.4 Member Function Documentation

7.2.4.1 EnableRecording()

```
void Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.EnableRecording (
    bool enable = true )
```

Enables/disables actual recording to the MVX2 file.

Parameters

<i>enable</i>	true in order to enable recording, false in order to disable it
---------------	---

7.2.4.2 GetDroppedFramesCount()

```
UInt64 Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.GetDroppedFramesCount ( )
```

Gets a value of internal counter of dropped frames.

Returns

dropped frames count

7.2.4.3 SetFilePath()

```
void Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.SetFilePath (
    MVCommon.String filePath )
```

Changes the path of the MVX2 file to write to.

Parameters

<i>filePath</i>	a new path of the MVX2 file
-----------------	-----------------------------

7.2.4.4 SetFullBehaviour()

```
void Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode.SetFullBehaviour (
    FullBehaviour fullBehaviour )
```

Sets a full-behaviour - action to perform when the buffer of frames becomes full.

Parameters

<i>fullBehaviour</i>	a behaviour to set
----------------------	--------------------

The documentation for this class was generated from the following file:

- public/graphnodes/Mvx2FileAsyncWriterGraphNode.cs

7.3 Mvx2BasicIO.Mvx2FileBasicDataInfo Class Reference

A provider of basic data information about an MVX2 file.

Inherits NativeObjectHolder.

Public Member Functions

- [Mvx2FileBasicDataInfo](#) (MVCommon.String filePath)
A constructor.
- bool [IsValid](#) ()
Indicates whether the specified file is a valid MVX2 file.
- bool [IsSingleFrame](#) ()
Indicates whether the MVX2 file contains only a single frame.
- UInt32 [GetNumFrames](#) ()
Returns a number of frames in the MVX2 file.
- float [GetFPS](#) ()
Returns framerate of the MVX2 file.
- bool [HasDepthMap](#) ()
Checks the presence of depth map data in the MVX2 file.
- bool [HasIRTexture](#) ()
Checks the presence of IR texture data in the MVX2 file.
- bool [HasColorTexture](#) ()
Checks the presence of a color texture data in the MVX2 file.
- bool [HasVertices](#) ()
Checks the presence of vertex positions data in the MVX2 file.
- bool [HasNormals](#) ()
Checks the presence of vertex normals data in the MVX2 file.
- bool [HasColors](#) ()
Checks the presence of vertex colors data in the MVX2 file.
- bool [HasUVs](#) ()
Checks the presence of vertex UVs data in the MVX2 file.
- bool [HasIndices](#) ()
Checks the presence of vertex indices data in the MVX2 file.
- bool [HasAudio](#) ()
Checks the presence of audio data in the MVX2 file.
- MVCommon.SharedRef< Mvx2API.Frame > [GetFirstFrame](#) ()
Returns the first frame of the MVX2 file.
- bool [CanRenderThumbnail](#) ()
Indicates whether it is possible to render a thumbnail image of the MVX2 file.
- void [RenderThumbnail](#) (byte[] targetBufferRGBA, Int32 targetWidth, Int32 targetHeight)
Renders a thumbnail image of the MVX2 file.

Protected Member Functions

- override void [DestroyNativeObject](#) ()
Destroys the native object in a customized way.

7.3.1 Detailed Description

A provider of basic data information about an MVX2 file.

7.3.2 Constructor & Destructor Documentation

7.3.2.1 Mvx2FileBasicDataInfo()

```
Mvx2BasicIO.Mvx2FileBasicDataInfo.Mvx2FileBasicDataInfo (
    MVCommon.String filePath )
```

A constructor.

Parameters

<i>filePath</i>	a path to the MVX2 file to provide info about
-----------------	---

7.3.3 Member Function Documentation

7.3.3.1 CanRenderThumbnail()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.CanRenderThumbnail ( )
```

Indicates whether it is possible to render a thumbnail image of the MVX2 file.

Returns

true if the thumbnail image is available

7.3.3.2 GetFirstFrame()

```
MVCommon.SharedRef<Mvx2API.Frame> Mvx2BasicIO.Mvx2FileBasicDataInfo.GetFirstFrame ( )
```

Returns the first frame of the MVX2 file.

Returns

the first frame

7.3.3.3 GetFPS()

```
float Mvx2BasicIO.Mvx2FileBasicDataInfo.GetFPS ( )
```

Returns framerate of the MVX2 file.

Returns

framerate

7.3.3.4 GetNumFrames()

```
UInt32 Mvx2BasicIO.Mvx2FileBasicDataInfo.GetNumFrames ( )
```

Returns a number of frames in the MVX2 file.

Returns

frames count

7.3.3.5 HasAudio()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasAudio ( )
```

Checks the presence of audio data in the MVX2 file.

Returns

true if the audio data are available

7.3.3.6 HasColors()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasColors ( )
```

Checks the presence of vertex colors data in the MVX2 file.

Returns

true if the vertex colors data are available

7.3.3.7 HasColorTexture()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasColorTexture ( )
```

Checks the presence of a color texture data in the MVX2 file.

Returns

true if a color texture data are available

7.3.3.8 HasDepthMap()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasDepthMap ( )
```

Checks the presence of depth map data in the MVX2 file.

Returns

true if the depth map data are available

7.3.3.9 HasIndices()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasIndices ( )
```

Checks the presence of vertex indices data in the MVX2 file.

Returns

true if the vertex indices data are available

7.3.3.10 HasIRTexture()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasIRTexture ( )
```

Checks the presence of IR texture data in the MVX2 file.

Returns

true if the IR texture data are available

7.3.3.11 HasNormals()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasNormals ( )
```

Checks the presence of vertex normals data in the MVX2 file.

Returns

true if the vertex normals data are available

7.3.3.12 HasUVs()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasUVs ( )
```

Checks the presence of vertex UVs data in the MVX2 file.

Returns

true if the vertex UVs data are available

7.3.3.13 HasVertices()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.HasVertices ( )
```

Checks the presence of vertex positions data in the MVX2 file.

Returns

true if the vertex positions data are available

7.3.3.14 IsSingleFrame()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.IsSingleFrame ( )
```

Indicates whether the MVX2 file contains only a single frame.

Returns

true if the file contains only a single frame

7.3.3.15 IsValid()

```
bool Mvx2BasicIO.Mvx2FileBasicDataInfo.IsValid ( )
```

Indicates whether the specified file is a valid MVX2 file.

Returns

true if the file is a valid MVX2 file

7.3.3.16 RenderThumbnail()

```
void Mvx2BasicIO.Mvx2FileBasicDataInfo.RenderThumbnail (
    byte[] targetBufferRGBA,
    Int32 targetWidth,
    Int32 targetHeight )
```

Renders a thumbnail image of the MVX2 file.

Parameters

<i>targetBufferRGBA</i>	a pre-allocated buffer for the thumbnail image
<i>targetWidth</i>	width of the image buffer
<i>targetHeight</i>	height of the image buffer

The documentation for this class was generated from the following file:

- public/util/Mvx2FileBasicDataInfo.cs

7.4 Mvx2BasicIO.Mvx2FileRandomAccessReader Class Reference

A sequential reader of MVX2 files with a random access to processed frames.

Public Member Functions

- [Mvx2FileRandomAccessReader](#) (MVCommon.String filePath)
A constructor.
- Mvx2API.Frame [ReadFrame](#) (UInt32 frameID)
Reads a frame from the file.

7.4.1 Detailed Description

A sequential reader of MVX2 files with a random access to processed frames.

7.4.2 Constructor & Destructor Documentation

7.4.2.1 Mvx2FileRandomAccessReader()

```
Mvx2BasicIO.Mvx2FileRandomAccessReader.Mvx2FileRandomAccessReader (
    MVCommon.String filePath )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to read
-----------------	---------------------------------

Exceptions

<i>System.InvalidOperationException</i>	raised in case the internal graph could not be created
---	--

7.4.3 Member Function Documentation

7.4.3.1 ReadFrame()

```
Mvx2API.Frame Mvx2BasicIO.Mvx2FileRandomAccessReader.ReadFrame (
    UInt32 frameID )
```

Reads a frame from the file.

Parameters

<i>frameID</i>	an ID of the frame to read
----------------	----------------------------

Returns

a frame with the ID or nullptr if there is none

The documentation for this class was generated from the following file:

- public/util/Mvx2FileRandomAccessReader.cs

7.5 Mvx2BasicIO.Mvx2FileReaderGraphNode Class Reference

A source graph node for reading frames from an MVX2 file.

Inherits GraphNode.

Public Member Functions

- [Mvx2FileReaderGraphNode](#) (MVCommon.String filePath)
A constructor.
- void [SetFilePath](#) (MVCommon.String filePath)
Changes the path of the MVX2 file to read from.

7.5.1 Detailed Description

A source graph node for reading frames from an MVX2 file.

Internally maintains a single reading filter. The same filter is reused even when the graph node is added to multiple graphs.

7.5.2 Constructor & Destructor Documentation

7.5.2.1 Mvx2FileReaderGraphNode()

```
Mvx2BasicIO.Mvx2FileReaderGraphNode.Mvx2FileReaderGraphNode (
    MVCommon.String filePath )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to read from
-----------------	--------------------------------------

7.5.3 Member Function Documentation

7.5.3.1 SetFilePath()

```
void Mvx2BasicIO.Mvx2FileReaderGraphNode.SetFilePath (
    MVCommon.String filePath )
```

Changes the path of the MVX2 file to read from.

Parameters

<i>filePath</i>	a new path of the MVX2 file
-----------------	-----------------------------

The documentation for this class was generated from the following file:

- public/graphnodes/Mvx2FileReaderGraphNode.cs

7.6 Mvx2BasicIO.Mvx2FileSyncReader Class Reference

A sequential reader of MVX2 files with a synchronous access to processed frames.

Public Member Functions

- [Mvx2FileSyncReader](#) (MVCommon.String filePath, Mvx2API.RunnerPlaybackMode playbackMode)
A constructor.
- Mvx2API.Frame [ReadNextFrame](#) ()
Reads next frame from the file.

7.6.1 Detailed Description

A sequential reader of MVX2 files with a synchronous access to processed frames.

7.6.2 Constructor & Destructor Documentation

7.6.2.1 Mvx2FileSyncReader()

```
Mvx2BasicIO.Mvx2FileSyncReader.Mvx2FileSyncReader (
    MVCommon.String filePath,
    Mvx2API.RunnerPlaybackMode playbackMode )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to read
<i>playbackMode</i>	a playback mode of the reading

Exceptions

<i>System.InvalidOperationException</i>	raised in case the internal graph could not be created
---	--

7.6.3 Member Function Documentation

7.6.3.1 ReadNextFrame()

```
Mvx2API.Frame Mvx2BasicIO.Mvx2FileSyncReader.ReadNextFrame ( )
```

Reads next frame from the file.

Returns

next processed frame or null if there is none

The documentation for this class was generated from the following file:

- public/util/Mvx2FileSyncReader.cs

7.7 Mvx2BasicIO.Mvx2FileWriterGraphNode Class Reference

A target graph node for writing frames to an MVX2 file.

Inherits [GraphNode](#).

Public Member Functions

- [Mvx2FileWriterGraphNode](#) (MVCommon.String filePath, bool enableRecording=true)
A constructor.
- void [EnableRecording](#) (bool enable=true)
Enables/disables actual recording to the MVX2 file.
- void [SetFilePath](#) (MVCommon.String filePath)
Changes the path of the MVX2 file to write to.

7.7.1 Detailed Description

A target graph node for writing frames to an MVX2 file.

Internally maintains a single writing filter. The same filter is reused even when the graph node is added to multiple graphs.

7.7.2 Constructor & Destructor Documentation

7.7.2.1 Mvx2FileWriterGraphNode()

```
Mvx2BasicIO.Mvx2FileWriterGraphNode.Mvx2FileWriterGraphNode (
    MVCommon.String filePath,
    bool enableRecording = true )
```

A constructor.

Parameters

<i>filePath</i>	a path of the MVX2 file to write to
<i>enableRecording</i>	an indication whether the recording shall be enabled right away

7.7.3 Member Function Documentation

7.7.3.1 EnableRecording()

```
void Mvx2BasicIO.Mvx2FileWriterGraphNode.EnableRecording (
    bool enable = true )
```

Enables/disables actual recording to the MVX2 file.

Parameters

<i>enable</i>	true in order to enable recording, false in order to disable it
---------------	---

7.7.3.2 SetFilePath()

```
void Mvx2BasicIO.Mvx2FileWriterGraphNode.SetFilePath (
    MVCommon.String filePath )
```

Changes the path of the MVX2 file to write to.

Parameters

<i>filePath</i>	a new path of the MVX2 file
-----------------	-----------------------------

The documentation for this class was generated from the following file:

- public/graphnodes/Mvx2FileWriterGraphNode.cs

7.8 Mvx2BasicIO.NetworkReceiverGraphNode Class Reference

A source graph node for reception of frames via network.

Inherits `GraphNode`.

Public Member Functions

- [NetworkReceiverGraphNode](#) (MVCommon.String commandsSocket, MVCommon.String dataSocket, UInt32 receiveBufferCapacity=5, Int64 responseReceiveTimeout=3000, bool enableIPv6=false)
A constructor.
- [NetworkReceiverGraphNode](#) (MVCommon.String unsupportedTransmitterProtocolVersions, MVCommon.String commandsSocket, MVCommon.String dataSocket, UInt32 receiveBufferCapacity=5, Int64 responseReceiveTimeout=3000, bool enableIPv6=false)
A constructor.
- void [SetUnsupportedTransmitterProtocolVersions](#) (MVCommon.String unsupportedTransmitterProtocolVersions)
Changes the specification of which protocol version transmitters the receiver shall not respond to.
- void [SetSockets](#) (MVCommon.String commandsSocket, MVCommon.String dataSocket, bool enableIPv6=false)
Changes the sockets of the receiver.

7.8.1 Detailed Description

A source graph node for reception of frames via network.

Internally maintains a single receiving filter. The same filter is reused even when the graph node is added to multiple graphs.

7.8.2 Constructor & Destructor Documentation

7.8.2.1 NetworkReceiverGraphNode() [1/2]

```
Mvx2BasicIO.NetworkReceiverGraphNode.NetworkReceiverGraphNode (
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    UInt32 receiveBufferCapacity = 5,
    Int64 responseReceiveTimeout = 3000,
    bool enableIPv6 = false )
```

A constructor.

Parameters

<i>commandsSocket</i>	a socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a socket for data reception (e.g. 'tcp://192.168.1.1:5556')
<i>receiveBufferCapacity</i>	a capacity of the underlying socket's receive-buffer
<i>responseReceiveTimeout</i>	an interval to wait for response from transmitter until the connection is considered unavailable (in ms)
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.8.2.2 NetworkReceiverGraphNode() [2/2]

```
Mvx2BasicIO.NetworkReceiverGraphNode.NetworkReceiverGraphNode (
    MVCommon.String unsupportedTransmitterProtocolVersions,
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    UInt32 receiveBufferCapacity = 5,
    Int64 responseReceiveTimeout = 3000,
    bool enableIPv6 = false )
```

A constructor.

Parameters

<i>unsupportedTransmitterProtocolVersions</i>	a comma-separated string for specifying which protocol version transmitters the receiver shall not respond to
<i>commandsSocket</i>	a socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a socket for data reception (e.g. 'tcp://192.168.1.1:5556')
<i>receiveBufferCapacity</i>	a capacity of the underlying socket's receive-buffer
<i>responseReceiveTimeout</i>	an interval to wait for response from transmitter until the connection is considered unavailable (in ms)
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.8.3 Member Function Documentation**7.8.3.1 SetSockets()**

```
void Mvx2BasicIO.NetworkReceiverGraphNode.SetSockets (
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    bool enableIPv6 = false )
```

Changes the sockets of the receiver.

Parameters

<i>commandsSocket</i>	a new socket for communication with transmitter (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a new socket for data reception (e.g. 'tcp://192.168.1.1:5556')
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.8.3.2 SetUnsupportedTransmitterProtocolVersions()

```
void Mvx2BasicIO.NetworkReceiverGraphNode.SetUnsupportedTransmitterProtocolVersions (
    MVCommon.String unsupportedTransmitterProtocolVersions )
```

Changes the specification of which protocol version transmitters the receiver shall not respond to.

Parameters

<i>unsupportedTransmitterProtocolVersions</i>	a comma-separated string of protocol versions, or empty string if all versions transmitters can be responded to
---	---

The documentation for this class was generated from the following file:

- public/graphnodes/NetworkReceiverGraphNode.cs

7.9 Mvx2BasicIO.NetworkTransmitterGraphNode Class Reference

A target graph node for transmission of frames via network.

Inherits GraphNode.

Public Member Functions

- [NetworkTransmitterGraphNode](#) (MVCommon.String commandsSocket, MVCommon.String dataSocket, UInt32 sendBufferCapacity=2, bool enableTransmission=true, bool enableIPv6=false)
A constructor.
- [NetworkTransmitterGraphNode](#) (MVCommon.String unsupportedReceiverProtocolVersions, MVCommon.String commandsSocket, MVCommon.String dataSocket, UInt32 sendBufferCapacity=2, bool enableTransmission=true, bool enableIPv6=false)
A constructor.
- void [SetUnsupportedReceiverProtocolVersions](#) (MVCommon.String unsupportedReceiverProtocolVersions)
Changes the specification of which protocol version receivers the transmitter shall not respond to.
- void [SetSockets](#) (MVCommon.String commandsSocket, MVCommon.String dataSocket, bool enableIPv6=false)
Changes the sockets of the transmitter.
- void [EnableTransmission](#) (bool enable=true)
Enables/disables actual frames transmission.
- UInt64 [GetDroppedAtomsCount](#) ()
Returns a count of dropped (not transmitted) atoms.
- void [ResetDroppedAtomsCounter](#) ()
Resets the internal counter of dropped (not transmitted) atoms.

7.9.1 Detailed Description

A target graph node for transmission of frames via network.

Internally maintains a single transmitting filter. The same filter is reused even when the graph node is added to multiple graphs.

Supports counting of dropped atoms.

7.9.2 Constructor & Destructor Documentation

7.9.2.1 NetworkTransmitterGraphNode() [1/2]

```
Mvx2BasicIO.NetworkTransmitterGraphNode.NetworkTransmitterGraphNode (
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    UInt32 sendBufferCapacity = 2,
    bool enableTransmission = true,
    bool enableIPv6 = false )
```

A constructor.

Parameters

<i>commandsSocket</i>	a socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
<i>sendBufferCapacity</i>	a capacity of the underlying socket's send-buffer
<i>enableTransmission</i>	an indication whether the transmission shall be enabled right away
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.9.2.2 NetworkTransmitterGraphNode() [2/2]

```
Mvx2BasicIO.NetworkTransmitterGraphNode.NetworkTransmitterGraphNode (
    MVCommon.String unsupportedReceiverProtocolVersions,
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    UInt32 sendBufferCapacity = 2,
    bool enableTransmission = true,
    bool enableIPv6 = false )
```

A constructor.

Parameters

<i>unsupportedReceiverProtocolVersions</i>	a comma-separated string for specifying which protocol version receivers the transmitter shall not respond to
<i>commandsSocket</i>	a socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
<i>sendBufferCapacity</i>	a capacity of the underlying socket's send-buffer
<i>enableTransmission</i>	an indication whether the transmission shall be enabled right away
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.9.3 Member Function Documentation

7.9.3.1 EnableTransmission()

```
void Mvx2BasicIO.NetworkTransmitterGraphNode.EnableTransmission (
    bool enable = true )
```

Enables/disables actual frames transmission.

Parameters

<i>enable</i>	true in order to enable transmission, false in order to disable it
---------------	--

7.9.3.2 GetDroppedAtomsCount()

```
UInt64 Mvx2BasicIO.NetworkTransmitterGraphNode.GetDroppedAtomsCount ( )
```

Returns a count of dropped (not transmitted) atoms.

Returns

the count of dropped atoms

7.9.3.3 SetSockets()

```
void Mvx2BasicIO.NetworkTransmitterGraphNode.SetSockets (
    MVCommon.String commandsSocket,
    MVCommon.String dataSocket,
    bool enableIPv6 = false )
```

Changes the sockets of the transmitter.

Parameters

<i>commandsSocket</i>	a new socket for communication with receivers (e.g. 'tcp://192.168.1.1:5555')
<i>dataSocket</i>	a new socket for data transmission (e.g. 'tcp://192.168.1.1:5556')
<i>enableIPv6</i>	enables IPv6 support - unless enabled, only IPv4 communication will work

7.9.3.4 SetUnsupportedReceiverProtocolVersions()

```
void Mvx2BasicIO.NetworkTransmitterGraphNode.SetUnsupportedReceiverProtocolVersions (
    MVCommon.String unsupportedReceiverProtocolVersions )
```

Changes the specification of which protocol version receivers the transmitter shall not respond to.

Parameters

<i>unsupportedReceiverProtocolVersions</i>	a comma-separated string of protocol versions, or empty string if all versions receivers can be responded to
--	--

The documentation for this class was generated from the following file:

- public/graphnodes/NetworkTransmitterGraphNode.cs

Index

- CanRenderThumbnail
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [23](#)
- EnableRecording
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [20](#)
 - Mvx2BasicIO.Mvx2FileWriterGraphNode, [31](#)
- EnableTransmission
 - Mvx2BasicIO.NetworkTransmitterGraphNode, [37](#)
- FB_BLOCK_FRAMES
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [20](#)
- FB_DROP_FRAMES
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [20](#)
- FullBehaviour
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [19](#)
- GetDroppedAtomsCount
 - Mvx2BasicIO.NetworkTransmitterGraphNode, [37](#)
- GetDroppedFramesCount
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [20](#)
- GetFirstFrame
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [23](#)
- GetFPS
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [23](#)
- GetNumFrames
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [23](#)
- HasAudio
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [24](#)
- HasColors
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [24](#)
- HasColorTexture
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [24](#)
- HasDepthMap
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [24](#)
- HasIndices
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [25](#)
- HasIRTexture
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [25](#)
- HasNormals
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [25](#)
- HasUVs
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [25](#)
- HasVertices
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [26](#)
- IsSingleFrame
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [26](#)
- IsValid
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [26](#)
- Mvx2BasicIO, [15](#)
- Mvx2BasicIO.Mvx2FileAsyncReader, [17](#)
 - Mvx2FileAsyncReader, [17](#)
 - Play, [18](#)
 - Stop, [18](#)
- Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [19](#)
 - EnableRecording, [20](#)
 - FB_BLOCK_FRAMES, [20](#)
 - FB_DROP_FRAMES, [20](#)
 - FullBehaviour, [19](#)
 - GetDroppedFramesCount, [20](#)
 - Mvx2FileAsyncWriterGraphNode, [20](#)
 - SetFilePath, [21](#)
 - SetFullBehaviour, [21](#)
- Mvx2BasicIO.Mvx2FileBasicDataInfo, [21](#)
 - CanRenderThumbnail, [23](#)
 - GetFirstFrame, [23](#)
 - GetFPS, [23](#)
 - GetNumFrames, [23](#)
 - HasAudio, [24](#)
 - HasColors, [24](#)
 - HasColorTexture, [24](#)
 - HasDepthMap, [24](#)
 - HasIndices, [25](#)
 - HasIRTexture, [25](#)
 - HasNormals, [25](#)
 - HasUVs, [25](#)
 - HasVertices, [26](#)
 - IsSingleFrame, [26](#)
 - IsValid, [26](#)
 - Mvx2FileBasicDataInfo, [22](#)
 - RenderThumbnail, [26](#)
- Mvx2BasicIO.Mvx2FileRandomAccessReader, [27](#)
 - Mvx2FileRandomAccessReader, [27](#)
 - ReadFrame, [28](#)
- Mvx2BasicIO.Mvx2FileReaderGraphNode, [28](#)
 - Mvx2FileReaderGraphNode, [28](#)
 - SetFilePath, [29](#)
- Mvx2BasicIO.Mvx2FileSyncReader, [29](#)
 - Mvx2FileSyncReader, [29](#)
 - ReadNextFrame, [30](#)
- Mvx2BasicIO.Mvx2FileWriterGraphNode, [30](#)
 - EnableRecording, [31](#)
 - Mvx2FileWriterGraphNode, [31](#)
 - SetFilePath, [31](#)
- Mvx2BasicIO.NetworkReceiverGraphNode, [33](#)
 - NetworkReceiverGraphNode, [33, 34](#)
 - SetSockets, [34](#)
 - SetUnsupportedTransmitterProtocolVersions, [35](#)

- Mvx2BasicIO.NetworkTransmitterGraphNode, [35](#)
 - EnableTransmission, [37](#)
 - GetDroppedAtomsCount, [37](#)
 - NetworkTransmitterGraphNode, [36](#)
 - SetSockets, [37](#)
 - SetUnsupportedReceiverProtocolVersions, [38](#)
- Mvx2FileAsyncReader
 - Mvx2BasicIO.Mvx2FileAsyncReader, [17](#)
- Mvx2FileAsyncWriterGraphNode
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [20](#)
- Mvx2FileBasicDataInfo
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [22](#)
- Mvx2FileRandomAccessReader
 - Mvx2BasicIO.Mvx2FileRandomAccessReader, [27](#)
- Mvx2FileReaderGraphNode
 - Mvx2BasicIO.Mvx2FileReaderGraphNode, [28](#)
- Mvx2FileSyncReader
 - Mvx2BasicIO.Mvx2FileSyncReader, [29](#)
- Mvx2FileWriterGraphNode
 - Mvx2BasicIO.Mvx2FileWriterGraphNode, [31](#)
- NetworkReceiverGraphNode
 - Mvx2BasicIO.NetworkReceiverGraphNode, [33](#), [34](#)
- NetworkTransmitterGraphNode
 - Mvx2BasicIO.NetworkTransmitterGraphNode, [36](#)
- Play
 - Mvx2BasicIO.Mvx2FileAsyncReader, [18](#)
- ReadFrame
 - Mvx2BasicIO.Mvx2FileRandomAccessReader, [28](#)
- ReadNextFrame
 - Mvx2BasicIO.Mvx2FileSyncReader, [30](#)
- RenderThumbnail
 - Mvx2BasicIO.Mvx2FileBasicDataInfo, [26](#)
- SetFilePath
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [21](#)
 - Mvx2BasicIO.Mvx2FileReaderGraphNode, [29](#)
 - Mvx2BasicIO.Mvx2FileWriterGraphNode, [31](#)
- SetFullBehaviour
 - Mvx2BasicIO.Mvx2FileAsyncWriterGraphNode, [21](#)
- SetSockets
 - Mvx2BasicIO.NetworkReceiverGraphNode, [34](#)
 - Mvx2BasicIO.NetworkTransmitterGraphNode, [37](#)
- SetUnsupportedReceiverProtocolVersions
 - Mvx2BasicIO.NetworkTransmitterGraphNode, [38](#)
- SetUnsupportedTransmitterProtocolVersions
 - Mvx2BasicIO.NetworkReceiverGraphNode, [35](#)
- Stop
 - Mvx2BasicIO.Mvx2FileAsyncReader, [18](#)