Mvx2BasicIO

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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 4.2.0 and MVX2File plugin version 3.3.1.

Mantis Vision: Mvx2BasicIO

Chapter 2

Release Notes

1.0.0

Initial version.

Module

1.0.0_M1 | renamed NetworkTransmitterGraphNode::GetDroppedFramesCount() and NetworkTransmitter
 GraphNode::ResetDroppedFramesCounter() functions to MVGraphAPI::NetworkTransmitterGraphNode::←
 GetDroppedAtomsCount() "NetworkTransmitterGraphNode::GetDroppedAtomsCount()" and MVGraphAP←
 I::NetworkTransmitterGraphNode::ResetDroppedAtomsCounter() "NetworkTransmitterGraphNode::Reset←
 DroppedAtomsCounter()" 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 M← VGraph_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)

4 Release Notes

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 M← VGraphAPI::Mvx2FileWriterGraphNode "Mvx2FileWriterGraphNode"

Build support

- 2.0.0_BS1 | size of Android and LuminOS libraries reduced by \sim 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::AutoDecompressor
 GraphNode since Mvx2 now contains their alternatives
- 3.0.0_M5 | removed MVGraphAPI::InjectFileDataGraphNode and MVGraphAPI::InjectMemoryDataGraph

 Node 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_SimpleAPINetConfig.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::Mvx2FileSimpleDataInfoclass 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

6 Release Notes

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 Mvx2← BasicIONet_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)
- $\bullet \ \, \textbf{5.0.0_BS2} \ | \ \, \textbf{upgraded} \ \, \textbf{cmake/toolchains/ios.cmake} \ \, \textbf{toolchain} \ \, \textbf{file} \ \, \textbf{used for building for iOS platform} \\$

Documentation

- ${\bf 5.0.0_D1} \mid {\sf introduced} \ {\sf PDF} \ {\sf documentation}$ 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)

8 Release Notes

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

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

NonAssignable	
Mvx2BasicIO::Mvx2FileAsyncReader	3
Mvx2BasicIO::Mvx2FileBasicDataInfo	8
Mvx2BasicIO::Mvx2FileRandomAccessReader	4
Mvx2BasicIO::Mvx2FileSyncReader	6
SingleFilterGraphNode	
Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode	5
Mvx2BasicIO::Mvx2FileReaderGraphNode	5
Mvx2BasicIO::Mvx2FileWriterGraphNode	8
Mvx2BasicIO::NetworkReceiverGraphNode	9
Mvx2BasicIO::NetworkTransmitterGraphNode	2

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Chapter 4

Data Structure Index

4.1 Data Structures

Here are the data structures with brief descriptions:

WVX2BaSiciOWVX2FileAsyricheadel	
A sequential reader of MVX2 files with an asynchronous access to processed frames	13
Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode	
A target graph node for asynchronous writing frames to an MVX2 file	15
Mvx2BasicIO::Mvx2FileBasicDataInfo	
A provider of basic data information about an MVX2 file	18
Mvx2BasicIO::Mvx2FileRandomAccessReader	
A sequential reader of MVX2 files with a random access to processed frames	24
Mvx2BasicIO::Mvx2FileReaderGraphNode	
A source graph node for reading frames from an MVX2 file	25
Mvx2BasicIO::Mvx2FileSyncReader	
A sequential reader of MVX2 files with a synchronous access to processed frames	26
Mvx2BasicIO::Mvx2FileWriterGraphNode	
A target graph node for writing frames to an MVX2 file	28
Mvx2BasicIO::NetworkReceiverGraphNode	
A source graph node for reception of frames via network	29
Mvx2BasicIO::NetworkTransmitterGraphNode	
A target graph node for transmission of frames via network	32

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Chapter 5

Data Structure Documentation

5.1 Mvx2BasicIO::Mvx2FileAsyncReader Class Reference

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

#include <Mvx2FileAsyncReader.h>

Inherits NonAssignable.

Public Member Functions

MVX2BASICIO_API Mvx2FileAsyncReader (MVCommon::String const &filePath, Mvx2API::FrameListener *pFrameListener, float fps=-1.0f)

A constructor.

MVX2BASICIO_API ~Mvx2FileAsyncReader ()

A destructor.

• MVX2BASICIO_API bool Play (Mvx2API::RunnerPlaybackMode playbackMode, bool blockUntil← Stopped=false)

Starts the file reading.

• MVX2BASICIO_API bool Stop ()

Stops the file reading.

Static Public Attributes

static const float FPS_MAX = 0.0f

A special framerate value indicating that the maximal possible framerate shall be used.

• static const float FPS_FROM_SOURCE = -1.0f

A special framerate value indicating that the framerate of an open source shall be used.

static const float FPS_HALF_FROM_SOURCE = -2.0f

A special framerate value indicating that the half of the framerate of an open source shall be used.

• static 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.

5.1.1 Detailed Description

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

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Mvx2FileAsyncReader()

```
\label{eq:main_main_main} $\operatorname{Mvx2FileAsyncReader}: \operatorname{Mvx2FileAsyncReader}: \operatorname{Mvx2API}: \operatorname
```

A constructor.

Parameters

filePath	a path of the MVX2 file to read
pFrameListener	an asynchronous frames listener
fps	a framerate to follow

Exceptions

std::runtime_error	raised in case the internal graph could not be created
--------------------	--

5.1.3 Member Function Documentation

5.1.3.1 Play()

Starts the file reading.

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

Parameters

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

Returns

true if the file reading successfully started

5.1.3.2 Stop()

bool Mvx2BasicIO::Mvx2FileAsyncReader::Stop () [inline]

Stops the file reading.

Returns

true if the file reading successfully stopped

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

public/Mvx2BasicIO/util/Mvx2FileAsyncReader.h

5.2 Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode Class Reference

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

#include <Mvx2FileAsyncWriterGraphNode.h>

Inherits SingleFilterGraphNode.

Public Types

enum FullBehaviour { FB DROP FRAMES, FB BLOCK FRAMES }

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

Public Member Functions

MVX2BASICIO_API Mvx2FileAsyncWriterGraphNode (MVCommon::String const &filePath, bool enable
 — Recording=true, uint32_t bufferSize=3, FullBehaviour fullBehaviour=FB_DROP_FRAMES)

A constructor

virtual MVX2BASICIO_API ~Mvx2FileAsyncWriterGraphNode ()

A destructor.

MVX2BASICIO_API void EnableRecording (bool enable=true) const

Enables/disables actual recording to the MVX2 file.

• MVX2BASICIO_API void SetFilePath (MVCommon::String const &filePath) const

Changes the path of the MVX2 file to write to.

• MVX2BASICIO API void SetFullBehaviour (FullBehaviour fullBehaviour)

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

MVX2BASICIO_API uint64_t GetDroppedFramesCount () const

Gets a value of internal counter of dropped frames.

MVX2BASICIO_API void ResetDroppedFramesCounter () const

Resets the internal counter of dropped frames to zero.

5.2.1 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.

5.2.2 Member Enumeration Documentation

5.2.2.1 FullBehaviour

```
enum Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode::FullBehaviour
```

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.

5.2.3 Constructor & Destructor Documentation

5.2.3.1 Mvx2FileAsyncWriterGraphNode()

A constructor.

Parameters

filePath	a path of the MVX2 file to write to	
enableRecording	an indication whether the recording shall be enabled right away	
bufferSize	a size of frames buffer	Generated by Doxygen
fullBehaviour	an initial full-behaviour	Generated by Doxyger

5.2.4 Member Function Documentation

5.2.4.1 EnableRecording()

Enables/disables actual recording to the MVX2 file.

Parameters

enable true in order to enable recording, false in order to disable it

5.2.4.2 GetDroppedFramesCount()

 $\label{lem:mvx2BasicIO} \verb|MVX2BASICIO_API uint64_t Mvx2BasicIO:: Mvx2FileAsyncWriterGraphNode:: GetDroppedFramesCount () const$

Gets a value of internal counter of dropped frames.

Returns

dropped frames count

5.2.4.3 SetFilePath()

```
\label{eq:mvx2BasicIO} $$ MVX2BASICIO\_API \ void \ Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode::SetFilePath \ ($ MVCommon::String \ const \ \& \ filePath \ ) \ const $$
```

Changes the path of the MVX2 file to write to.

Parameters

filePath a new path of the MVX2 file

5.2.4.4 SetFullBehaviour()

```
\label{lem:mvx2BaSiCIO} $$ Mvx2BasicIO::Mvx2FileAsyncWriterGraphNode::SetFullBehaviour ( $$ FullBehaviour fullBehaviour ) $$
```

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

Parameters

fullBehaviour a behaviour to set

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

public/Mvx2BasicIO/graphnodes/Mvx2FileAsyncWriterGraphNode.h

5.3 Mvx2BasicIO::Mvx2FileBasicDataInfo Class Reference

A provider of basic data information about an MVX2 file.

```
#include <Mvx2FileBasicDataInfo.h>
```

Inherits NonAssignable.

Public Member Functions

• MVX2BASICIO API Mvx2FileBasicDataInfo (MVCommon::String const &filePath)

A constructor.

virtual MVX2BASICIO_API ~Mvx2FileBasicDataInfo ()

A destructor.

• MVX2BASICIO_API bool IsValid () const

Indicates whether the specified file is a valid MVX2 file.

MVX2BASICIO API bool IsSingleFrame () const

Indicates whether the MVX2 file contains only a single frame.

MVX2BASICIO_API uint32_t GetNumFrames () const

Returns a number of frames in the MVX2 file.

MVX2BASICIO_API float GetFPS () const

Returns framerate of the MVX2 file.

MVX2BASICIO_API bool HasDepthMap () const

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

• MVX2BASICIO_API bool HasIRTexture () const

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

• MVX2BASICIO_API bool HasColorTexture () const

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

• MVX2BASICIO_API bool HasVertices () const

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

• MVX2BASICIO API bool HasNormals () const

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

• MVX2BASICIO_API bool HasColors () const

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

MVX2BASICIO API bool HasUVs () const

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

• MVX2BASICIO API bool HasIndices () const

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

• MVX2BASICIO_API bool HasAudio () const

Checks the presence of audio data in the MVX2 file.

MVX2BASICIO API Mvx2API::Frame * GetFirstFrame () const

Returns the first frame of the MVX2 file.

MVX2BASICIO_API bool CanRenderThumbnail () const

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

MVX2BASICIO_API void RenderThumbnail (uint8_t *targetBufferRGBA, uint32_t targetWidth, uint32_
 t targetHeight) const

Renders a thumbnail image of the MVX2 file.

MVX2BASICIO_API uint8_t * CreateAndRenderThumbnail (uint32_t targetWidth, uint32_t targetHeight)

Allocates a new image buffer and renders a thumbnail image of the MVX2 file to it.

5.3.1 Detailed Description

A provider of basic data information about an MVX2 file.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 Mvx2FileBasicDataInfo()

A constructor.

Parameters

filePath a path to the MVX2 file to provide info about

5.3.3 Member Function Documentation

5.3.3.1 CanRenderThumbnail()

```
MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::CanRenderThumbnail ( ) const
```

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

Returns

true if the thumbnail image is available

5.3.3.2 CreateAndRenderThumbnail()

Allocates a new image buffer and renders a thumbnail image of the MVX2 file to it.

Parameters

targetWidth	width of the image buffer
targetHeight	height of the image buffer

Returns

the new image buffer

5.3.3.3 GetFirstFrame()

 ${\tt MVX2BASICIO_API~Mvx2API::Frame*~Mvx2BasicIO::Mvx2FileBasicDataInfo::GetFirstFrame~(~)~constants}$

Returns the first frame of the MVX2 file.

Returns

the first frame

5.3.3.4 GetFPS()

 ${\tt MVX2BASICIO_API~float~Mvx2BasicIO::Mvx2FileBasicDataInfo::GetFPS~(~)~const}$

Returns framerate of the MVX2 file.

Returns

framerate

5.3.3.5 GetNumFrames()

 ${\tt MVX2BASICIO_API~uint32_t~Mvx2BasicIO::Mvx2FileBasicDataInfo::GetNumFrames~(~)~const}$

Returns a number of frames in the MVX2 file.

Returns

frames count

5.3.3.6 HasAudio()

MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasAudio () const

Checks the presence of audio data in the MVX2 file.

Returns

true if the audio data are available

5.3.3.7 HasColors()

MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasColors () const

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

Returns

true if the vertex colors data are available

5.3.3.8 HasColorTexture()

MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasColorTexture () const

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

Returns

true if a color texture data are available

5.3.3.9 HasDepthMap()

 ${\tt MVX2BASICIO_API~bool~Mvx2BasicIO::Mvx2FileBasicDataInfo::HasDepthMap~(~)~const}$

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

Returns

true if the depth map data are available

5.3.3.10 HasIndices()

MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasIndices () const

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

Returns

true if the vertex indices data are available

5.3.3.11 HasIRTexture()

MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasIRTexture () const

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

Returns

true if the IR texture data are available

5.3.3.12 HasNormals()

 ${\tt MVX2BASICIO_API~bool~Mvx2BasicIO::Mvx2FileBasicDataInfo::HasNormals~(~)~constant}$

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

Returns

true if the vertex normals data are available

5.3.3.13 HasUVs()

 ${\tt MVX2BASICIO_API~bool~Mvx2BasicIO::Mvx2FileBasicDataInfo::HasUVs~(~)~const}$

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

Returns

true if the vertex UVs data are available

5.3.3.14 HasVertices()

```
MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::HasVertices ( ) const
```

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

Returns

true if the vertex positions data are available

5.3.3.15 IsSingleFrame()

```
MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::IsSingleFrame ( ) const
```

Indicates whether the MVX2 file contains only a single frame.

Returns

true if the file contains only a single frame

5.3.3.16 IsValid()

```
MVX2BASICIO_API bool Mvx2BasicIO::Mvx2FileBasicDataInfo::IsValid ( ) const
```

Indicates whether the specified file is a valid MVX2 file.

Returns

true if the file is a valid MVX2 file

5.3.3.17 RenderThumbnail()

Renders a thumbnail image of the MVX2 file.

Parameters

targetBufferRGBA	a pre-allocated buffer for the thumbnail image
targetWidth	width of the image buffer
targetHeight Generated by Doxygen	height of the image buffer

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

• public/Mvx2BasicIO/util/Mvx2FileBasicDataInfo.h

5.4 Mvx2BasicIO::Mvx2FileRandomAccessReader Class Reference

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

```
#include <Mvx2FileRandomAccessReader.h>
```

Inherits NonAssignable.

Public Member Functions

- MVX2BASICIO_API Mvx2FileRandomAccessReader (MVCommon::String const &filePath)
- MVX2BASICIO_API ~Mvx2FileRandomAccessReader ()

A destructor.

MVX2BASICIO_API Mvx2API::Frame * ReadFrame (uint32_t frameID)

Reads a frame from the file.

5.4.1 Detailed Description

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

5.4.2 Constructor & Destructor Documentation

5.4.2.1 Mvx2FileRandomAccessReader()

A constructor.

Parameters

filePath a path of the MVX2 file to read	
--	--

Exceptions

5.4.3 Member Function Documentation

5.4.3.1 ReadFrame()

Reads a frame from the file.

Parameters

frameID an ID of the	he 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/Mvx2BasicIO/util/Mvx2FileRandomAccessReader.h

5.5 Mvx2BasicIO::Mvx2FileReaderGraphNode Class Reference

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

```
#include <Mvx2FileReaderGraphNode.h>
```

Inherits SingleFilterGraphNode.

Public Member Functions

- MVX2BASICIO_API Mvx2FileReaderGraphNode (MVCommon::String const &filePath)
- virtual MVX2BASICIO_API \sim Mvx2FileReaderGraphNode ()

A destructor

MVX2BASICIO_API void SetFilePath (MVCommon::String const &filePath) const
 Changes the path of the MVX2 file to read from.

5.5.1 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.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 Mvx2FileReaderGraphNode()

A constructor.

Parameters

filePath	a path of the MVX2 file to read from
----------	--------------------------------------

5.5.3 Member Function Documentation

5.5.3.1 SetFilePath()

```
\label{eq:mvx2BasicIO} $$ MVX2BasicIO::Mvx2FileReaderGraphNode::SetFilePath ($$ MVCommon::String const & $filePath$) const
```

Changes the path of the MVX2 file to read from.

Parameters

filePath	a new path of the MVX2 file

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

• public/Mvx2BasicIO/graphnodes/Mvx2FileReaderGraphNode.h

5.6 Mvx2BasicIO::Mvx2FileSyncReader Class Reference

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

```
#include <Mvx2FileSyncReader.h>
```

Inherits NonAssignable.

Public Member Functions

 MVX2BASICIO_API Mvx2FileSyncReader (MVCommon::String const &filePath, Mvx2API::Runner← PlaybackMode playbackMode)

A constructor.

MVX2BASICIO_API ~Mvx2FileSyncReader ()

A destructor.

MVX2BASICIO_API Mvx2API::Frame * ReadNextFrame ()

Reads next frame from the file.

5.6.1 Detailed Description

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

5.6.2 Constructor & Destructor Documentation

5.6.2.1 Mvx2FileSyncReader()

A constructor.

Parameters

filePath	a path of the MVX2 file to read
playbackMode	a playback mode of the reading

Exceptions

std::runtime_error	raised in case the internal graph could not be created

5.6.3 Member Function Documentation

5.6.3.1 ReadNextFrame()

```
Mvx2API::Frame * Mvx2BasicIO::Mvx2FileSyncReader::ReadNextFrame ( ) [inline]
```

Reads next frame from the file.

Returns

next processed frame or nullptr if there is none

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

public/Mvx2BasicIO/util/Mvx2FileSyncReader.h

5.7 Mvx2BasicIO::Mvx2FileWriterGraphNode Class Reference

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

```
#include <Mvx2FileWriterGraphNode.h>
```

Inherits SingleFilterGraphNode.

Public Member Functions

MVX2BASICIO_API Mvx2FileWriterGraphNode (MVCommon::String const &filePath, bool enable
 — Recording=true)

A constructor.

virtual MVX2BASICIO API ~Mvx2FileWriterGraphNode ()

A destructor.

MVX2BASICIO_API void EnableRecording (bool enable=true) const

Enables/disables actual recording to the MVX2 file.

• MVX2BASICIO API void SetFilePath (MVCommon::String const &filePath) const

Changes the path of the MVX2 file to write to.

5.7.1 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.

5.7.2 Constructor & Destructor Documentation

5.7.2.1 Mvx2FileWriterGraphNode()

A constructor.

Parameters

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

5.7.3 Member Function Documentation

5.7.3.1 EnableRecording()

Enables/disables actual recording to the MVX2 file.

Parameters

5.7.3.2 SetFilePath()

Changes the path of the MVX2 file to write to.

Parameters

filePath	a new path of the MVX2 file

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

• public/Mvx2BasicIO/graphnodes/Mvx2FileWriterGraphNode.h

5.8 Mvx2BasicIO::NetworkReceiverGraphNode Class Reference

A source graph node for reception of frames via network.

#include <NetworkReceiverGraphNode.h>

Inherits SingleFilterGraphNode.

Public Member Functions

MVX2BASICIO_API NetworkReceiverGraphNode (MVCommon::String const &commandsSocket, M

VCommon::String const &dataSocket, uint32_t receiveBufferCapacity=5, int64_t responseReceive

Timeout=3000, bool enableIPv6=false)

A constructor.

A constructor

virtual MVX2BASICIO_API ~NetworkReceiverGraphNode ()

A destructor.

MVX2BASICIO_API void SetUnsupportedTransmitterProtocolVersions (MVCommon::String const &unsupported ← TransmitterProtocolVersions) const

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

• MVX2BASICIO_API void SetSockets (MVCommon::String const &commandsSocket, MVCommon::String const &dataSocket, bool enableIPv6=false) const

Changes the sockets of the receiver.

5.8.1 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.

5.8.2 Constructor & Destructor Documentation

5.8.2.1 NetworkReceiverGraphNode() [1/2]

A constructor.

Parameters

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

5.8.2.2 NetworkReceiverGraphNode() [2/2]

A constructor.

Parameters

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

5.8.3 Member Function Documentation

5.8.3.1 SetSockets()

Changes the sockets of the receiver.

Parameters

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

5.8.3.2 SetUnsupportedTransmitterProtocolVersions()

 $\label{lem:main_mode} \begin{tabular}{ll} MVX2BASICIO_API void Mvx2BasicIO::NetworkReceiverGraphNode::SetUnsupportedTransmitterProtocol \longleftrightarrow Versions (\end{tabular}$

MVCommon::String const & unsupportedTransmitterProtocolVersions) const

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

Parameters

unsupportedTransmitterProtocolVersions	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/Mvx2BasicIO/graphnodes/NetworkReceiverGraphNode.h

5.9 Mvx2BasicIO::NetworkTransmitterGraphNode Class Reference

A target graph node for transmission of frames via network.

#include <NetworkTransmitterGraphNode.h>

Inherits SingleFilterGraphNode.

Public Member Functions

MVX2BASICIO_API NetworkTransmitterGraphNode (MVCommon::String const &commandsSocket, MV
 — Common::String const &dataSocket, uint32_t sendBufferCapacity=2, bool enableTransmission=true, bool enableIPv6=false)

A constructor.

• MVX2BASICIO_API NetworkTransmitterGraphNode (MVCommon::String const &unsupportedReceiver ← ProtocolVersions, MVCommon::String const &commandsSocket, MVCommon::String const &dataSocket, uint32_t sendBufferCapacity=2, bool enableTransmission=true, bool enableIPv6=false)

A constructor

virtual MVX2BASICIO_API ~NetworkTransmitterGraphNode ()

A destructor.

• MVX2BASICIO_API void SetUnsupportedReceiverProtocolVersions (MVCommon::String const &unsupported← ReceiverProtocolVersions) const

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

MVX2BASICIO_API void SetSockets (MVCommon::String const &commandsSocket, MVCommon::String const &dataSocket, bool enableIPv6=false) const

Changes the sockets of the transmitter.

• MVX2BASICIO API void EnableTransmission (bool enable=true) const

Enables/disables actual frames transmission.

• MVX2BASICIO_API uint64_t GetDroppedAtomsCount () const

Returns a count of dropped (not transmitted) atoms.

MVX2BASICIO_API void ResetDroppedAtomsCounter () const

Resets the internal counter of dropped (not transmitted) atoms.

5.9.1 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.

5.9.2 Constructor & Destructor Documentation

5.9.2.1 NetworkTransmitterGraphNode() [1/2]

A constructor.

Parameters

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

5.9.2.2 NetworkTransmitterGraphNode() [2/2]

A constructor.

Parameters

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

5.9.3 Member Function Documentation

5.9.3.1 EnableTransmission()

Enables/disables actual frames transmission.

Parameters

enable true in order to enable transmission, false in order to disable it

5.9.3.2 GetDroppedAtomsCount()

```
MVX2BASICIO_API uint64_t Mvx2BasicIO::NetworkTransmitterGraphNode::GetDroppedAtomsCount ( )
```

Returns a count of dropped (not transmitted) atoms.

Returns

the count of dropped atoms

5.9.3.3 SetSockets()

Changes the sockets of the transmitter.

Parameters

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

5.9.3.4 SetUnsupportedReceiverProtocolVersions()

 $\label{local_maps} \verb"MVX2BASICIO_API" void Mvx2BasicIO:: Network Transmitter Graph Node:: Set Unsupported Receiver Protocol ω Versions ($

MVCommon::String const & unsupportedReceiverProtocolVersions) const

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

Parameters

unsupportedReceiverProtocolVersions	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:

 $\bullet \ public/Mvx2BasicIO/graphnodes/NetworkTransmitterGraphNode.h$

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