

Horus IDL Reference

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Horus IDL Reference

The **HxCorba** (p. 5) module contains all IDL interfaces related to Horus C++ objects.

The **HxCorbaMenu** (p. 17) module contains a menu hierarchy for interfaces from the **HxCorba** (p. 5) module. Most top-level menu's are defined in **HxCorbaMenu.idl**. The GlobalOps menu is defined in **HxCorbaOpsMenu.idl** which also includes **HxCorbaUserOpsMenu.idl**.

The **HxCorbaDefParams** (p. 17) module contains default values for operations from GlobalOps.

Entry points HxCorba

- **HxCorba::Constructor** (p. 25) (and all factories)
- **HxCorba::GlobalOps** (p. 28), **HxCorba::UserOps** (p. 73)

Data representations

- **HxCorba::Blob2d** (p. 21)
 - **HxCorba::ContourCode** (p. 12), **HxCorba::ContourCodeSeq** (p. 12), **HxCorba::Blob2d-Set** (p. 12)
 - **HxCorba::BSplineCurve** (p. 22), **HxCorba::SampledBSplineCurve** (p. 66),
 - **HxCorba::BSplineFactory** (p. 23), **HxCorba::BSplineType** (p. 14)
 - **HxCorba::Histogram** (p. 42)
 - **HxCorba::HistogramData** (p. 39), **HxCorba::HistogramFactory** (p. 40), **HxCorba::HistogramList** (p. 13)
 - **HxCorba::HistogramMode** (p. 93), **HxCorba::HistogramModeSeq** (p. 13)
 - **HxCorba::ImageRep** (p. 49)
 - **HxCorba::ImageData** (p. 43), **HxCorba::ImageFactory** (p. 45), **HxCorba::ImageList** (p. 13)
 - **HxCorba::ImageException** (p. 91), **HxCorba::ImageSignature** (p. 15), **HxCorba::Result-Precision** (p. 16), **HxCorba::PixelT** (p. 15)
 - **HxCorba::ImageSeq** (p. 53)
 - **HxCorba::ImageSeqDisplayer** (p. 51), **HxCorba::ImageSeqFactory** (p. 52)
 - **HxCorba::NJet** (p. 57)
 - **HxCorba::NJetFactory** (p. 57)
 - **HxCorba::Polyline2d** (p. 61)
 - **HxCorba::Polyline2dData** (p. 60), **HxCorba::PolylineFactory** (p. 61)
 - **HxCorba::PointR2** (p. 94), **HxCorba::PointR2Seq** (p. 13)
-

- **HxCorba::SF** (p. 68)
 - **HxCorba::SFFactory** (p. 67)
- **HxCorba::VxSegment** (p. 82), **HxCorba::VxSegmentation** (p. 80)
 - **HxCorba::VxSegmentationFactory** (p. 79), **HxCorba::VxSegmentSeq** (p. 14)
 - **HxCorba::VxTimeSpan** (p. 99), **HxCorba::VxTimeSpanSeq** (p. 14)
- **HxCorba::VxStructure** (p. 85)
 - **HxCorba::VxStructureFactory** (p. 84)
 - **HxCorba::VxStructureEval** (p. 98)

Basic things

- **HxCorba::ColorModel** (p. 15)
- **HxCorba::GeoIntType** (p. 16)
- **HxCorba::GeoTransType** (p. 16)
- **HxCorba::Matrix** (p. 56), **HxCorba::MatrixFactory** (p. 54)
- **HxCorba::PixValue** (p. 100)
- **HxCorba::Point** (p. 94)
- **HxCorba::Sizes** (p. 95)
- **HxCorba::TagList** (p. 71), **HxCorba::TagListFactory** (p. 70)

Corba types

- **HxCorba::StringSeq** (p. 13), **HxCorba::OctetSeq** (p. 13), **HxCorba::ShortSeq** (p. 13), **HxCorba::LongSeq** (p. 13), **HxCorba::FloatSeq** (p. 14), **HxCorba::DoubleSeq** (p. 14), **HxCorba::DoubleSeqSeq** (p. 14)

RGB data transfer

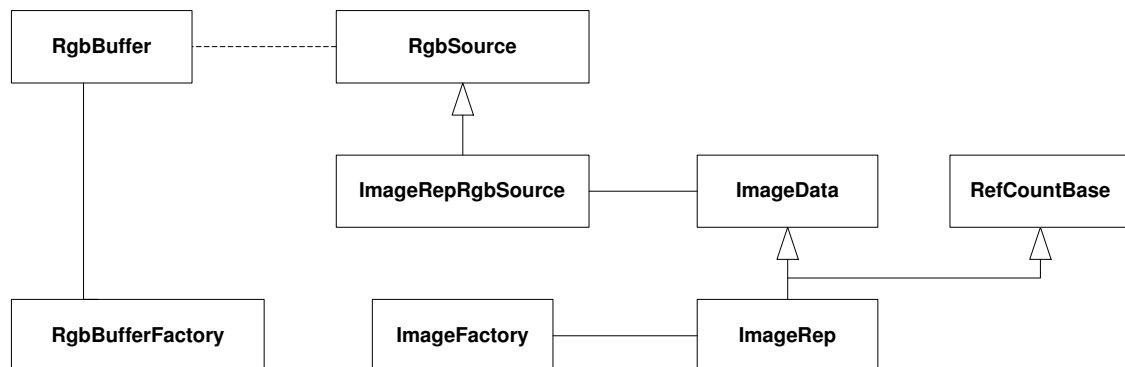


Figure 1: RGB data transfer

- **HxCorba::RgbSeq** (p. 13), **HxCorba::RgbBuffer** (p. 64), **HxCorba::RgbBufferFactory** (p. 63)
- **HxCorba::RgbSource** (p. 65), **HxCorba::ImageRepRgbSource** (p. 48)

Video

- **HxCorba::TVCapture** (p. 72)

- **HxCorba::VideoPlayer** (p. 75), **HxCorba::VideoPlayerFactory** (p. 74)
- **HxCorba::VideoWriter** (p. 76), **HxCorba::VideoWriterFactory** (p. 76)

Database

- **HxCorba::Database** (p. 27)
- **HxCorba::DatabaseSession** (p. 26)
 - **HxCorba::DatabaseException** (p. 91), **HxCorba::SegmentQueryResult** (p. 95), **HxCorba::SegmentQueryResultSeq** (p. 12)
- **HxCorba::StoreSession** (p. 69)
 - **HxCorba::VxSegmentBuilder** (p. 81), **HxCorba::VxSegmentationBuilder** (p. 79)
- **HxCorba::UpdateSession** (p. 72)
 - **HxCorba::VxMutableSegment** (p. 77), **HxCorba::VxMutableSegmentation** (p. 77)
- **HxCorba::XMLSession** (p. 89)
 - **HxCorba::DBDataTag** (p. 14), **HxCorba::DBData** (p. 100), **HxCorba::DBDataTagSeq** (p. 12), **HxCorba::DBDataRow** (p. 12), **HxCorba::DBDataRowSeq** (p. 12)
- **HxCorba::HistogramSession** (p. 41)
- **HxCorba::VxSimilaritySession** (p. 84)
 - **HxCorba::VxSimilarityBuilder** (p. 83)
- **HxCorba::FullSession** (p. 28)

Misc

- **HxCorba::App** (p. 20)
- **HxCorba::Configure** (p. 24), **HxCorba::ObjectUsage** (p. 59)
- **HxCorba::RefCountBase** (p. 62)
- **HxCorba::Registry** (p. 63)
- **HxCorba::Test** (p. 71)
- **HxCorba::WebImageFactory** (p. 89)

Author:

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Chapter 1

Namespaces

1.1 HxCorba Namespace Reference

Compounds

- **interface HxCorba::App**
An interface for applications to exchange data objects.
 - **interface HxCorba::Blob2d**
A blob in 2D (HxBlob2d in C++).
 - **interface HxCorba::BSplineCurve**
BSplineCurve (p. 22) (HxBSplineCurve in C++).
 - **interface HxCorba::SampledBSplineCurve**
A sampled BSplineCurve (p. 22) (HxSampledBSplineCurve in C++).
 - **interface HxCorba::BSplineFactory**
A factory for BSplineCurve (p. 22)'s.
 - **interface HxCorba::ObjectUsage**
Interface to configure object management in the Horus server.
 - **interface HxCorba::Configure**
Interface to configure the Horus server.
 - **interface HxCorba::Constructor**
Construct Horus related CORBA objects.
 - **exception HxCorba::DatabaseException**
An exception in the database.
 - **struct HxCorba::SegmentQueryResult**
A segment as query result.
-

- **interface HxCORBA::DatabaseSession**
A database session.
- **interface HxCORBA::Database**
An interface to a database.
- **interface HxCORBA::VxSegmentBuilder**
A VxSegment (p. 82) builder.
- **interface HxCORBA::VxSegmentationBuilder**
A VxSegmentation (p. 80) builder.
- **interface HxCORBA::StoreSession**
A database session for storing data.
- **interface HxCORBA::VxMutableSegment**
A VxSegment (p. 82) builder and modifier.
- **interface HxCORBA::VxMutableSegmentation**
A VxSegmentation (p. 80) builder and modifier.
- **interface HxCORBA::UpdateSession**
A database session for modifying data.
- **union HxCORBA::DBData**
XML database data.
- **interface HxCORBA::XMLSession**
An XML database session.
- **interface HxCORBA::HistogramSession**
A database session for Histogram (p. 42)'s.
- **interface HxCORBA::VxSimilarityBuilder**
A VxSimilarity builder.
- **interface HxCORBA::VxSimilaritySession**
A database session for VxSimilarity's.
- **interface HxCORBA::FullSession**
A full featured database session.
- **interface HxCORBA::GlobalOps**
Global operations.
- **interface HxCORBA::HistogramData**
All histogram data related functionality.
- **struct HxCORBA::HistogramMode**
HistogramMode (p. 93).

- **interface HxCorba::Histogram**
A histogram (HxHistogram in C++).
- **interface HxCorba::HistogramFactory**
A factory for Histogram (p. 42)'s.
- **struct HxCorba::Sizes**
Size specification in Z3 (HxSizes in C++).
- **struct HxCorba::Point**
A point in R3 (HxPoint in C++).
- **interface HxCorba::ImageRepRgbSource**
An RgbSource (p. 65) for display of ImageRep (p. 49)'s.
- **interface HxCorba::ImageData**
All image data related functionality.
- **exception HxCorba::ImageException**
An exception in an ImageRep (p. 49) operation.
- **interface HxCorba::ImageRep**
An image representation (HxImageRep in C++).
- **interface HxCorba::ImageFactory**
A factory for ImageRep (p. 49)'s.
- **interface HxCorba::ImageSeqDisplayer**
Deprecated.
- **interface HxCorba::ImageSeq**
An image sequence (HxImageSeq in C++).
- **interface HxCorba::ImageSeqFactory**
A factory for ImageSeq (p. 53)'s.
- **interface HxCorba::Matrix**
A matrix (HxMatrix in C++).
- **interface HxCorba::MatrixFactory**
A factory for Matrix (p. 56)'s.
- **interface HxCorba::NJet**
An Njet (HxNJet in C++).
- **interface HxCorba::NJetFactory**
A factory for NJet (p. 57)'s.
- **struct HxCorba::Vec2I**

Vector of 2 integers (HxVec2Int in C++).

- **struct HxCorba::Vec2D**
Vector of 2 doubles (HxVec2Double in C++).
- **struct HxCorba::Vec3I**
Vector of 3 integers (HxVec3Int in C++).
- **struct HxCorba::Vec3D**
Vector of 3 doubles (HxVec3Double in C++).
- **struct HxCorba::Complex**
Complex (p. 92) value (HxComplex in C++).
- **union HxCorba::PixValue**
A pixel value (HxValue in C++).
- **struct HxCorba::PointR2**
A point in R2 (HxPointR2 in C++).
- **interface HxCorba::Polyline2dData**
All polyline data related functionality.
- **interface HxCorba::Polyline2d**
A polyline in 2D (HxPolyline2d in C++).
- **interface HxCorba::PolylineFactory**
A factory for Polyline2d (p. 61)'s.
- **interface HxCorba::RefCountBase**
Base class for all reference counted objects.
- **interface HxCorba::Registry**
The registry (HxRegistry in C++).
- **interface HxCorba::RgbBuffer**
A buffer for transfer of RGB data.
- **interface HxCorba::RgbBufferFactory**
Factory for RgbBuffer (p. 64)'s.
- **interface HxCorba::RgbSource**
Base class for objects that deliver Rgb data.
- **interface HxCorba::SF**
A structuring function (HxSF in C++).
- **interface HxCorba::SFFactory**
A factory for SF (p. 68)'s.

- **interface HxCorba::TagList**
A list of tags (HxTagList in C++).
- **interface HxCorba::TagListFactory**
Factory for TagList (p. 71)'s.
- **interface HxCorba::Test**
A testing interface.
- **interface HxCorba::TVCapture**
A TV capture device.
- **interface HxCorba::VideoPlayer**
A video player device.
- **interface HxCorba::VideoPlayerFactory**
A factory for VideoPlayer (p. 75)'s.
- **interface HxCorba::VideoWriter**
A video file writer device.
- **interface HxCorba::VideoWriterFactory**
A factory for VideoWriter (p. 76)'s.
- **struct HxCorba::VxTimeSpan**
A time span in a video.
- **interface HxCorba::VxSegment**
A video segment (VxSegment (p. 82) in C++).
- **interface HxCorba::VxSegmentation**
A video segmentation.
- **interface HxCorba::VxSegmentationFactory**
A factory for VxSegmentation (p. 80)'s.
- **struct HxCorba::VxStructureEval**
A video structure evaluation.
- **interface HxCorba::VxStructure**
A video structure (VxStructure (p. 85) in C++).
- **interface HxCorba::VxStructureFactory**
A factory for VxStructure (p. 85)'s.
- **interface HxCorba::WebImageFactory**
A factory for ImageData (p. 43)'s from web images.
- **struct HxCorba::MyMessage**
- **struct HxCorba::Color**

- **struct HxCorba::AapFeatures**
- **interface HxCorba::UserOps**
Global operations defined by the user.

Typedefs

- **typedef long ContourCode**
A code in a contour definition.
- **typedef sequence< ContourCode > ContourCodeSeq**
A sequence of ContourCode's.
- **typedef sequence< Blob2d > Blob2dSet**
A set of Blob2d (p. 21)'s.
- **typedef sequence< SegmentQueryResult > SegmentQueryResultSeq**
A sequence of SegmentQueryResult (p. 95)'s.
- **typedef sequence< DBDataTag > DBDataTagSeq**
A sequence of DBDataTag's.
- **typedef sequence< DBData > DBDataRow**
A sequence of DBData (p. 100)'s.
- **typedef sequence< DBDataRow > DBDataRowSeq**
A sequence of DBDataRow's.
- **typedef sequence< double > BinDataSequence**
Data of the bins of a histogram.
- **typedef sequence< HistogramMode > HistogramModeSeq**
A sequence of HistogramMode (p. 93)'s.
- **typedef sequence< Histogram > HistogramList**
A sequence of Histogram (p. 42)'s.
- **typedef sequence< ImageRep > ImageList**
A sequence of ImageRep (p. 49)'s.
- **typedef sequence< PointR2 > PointR2Seq**
A sequence of PointR2 (p. 94)'s.
- **typedef sequence< string > NameList**
A list of names (strings).
- **typedef sequence< long > RgbSeq**
A sequence (array) of RGB values stored in 32-bit integers.

- **typedef sequence< string > StringSeq**
A sequence of string's.
- **typedef sequence< octet > OctetSeq**
A sequence of octet's.
- **typedef sequence< short > ShortSeq**
A sequence of short's.
- **typedef sequence< long > LongSeq**
A sequence of long's.
- **typedef sequence< float > FloatSeq**
A sequence of float's.
- **typedef sequence< double > DoubleSeq**
A sequence of double's.
- **typedef sequence< DoubleSeq > DoubleSeqSeq**
A sequence of sequences of double's.
- **typedef sequence< VxTimeSpan > VxTimeSpanSeq**
A sequence of VxTimeSpan (p. 99)'s.
- **typedef sequence< VxSegment > VxSegmentSeq**
A sequence of VxSegment (p. 82)'s.

Enumerations

- **enum BSplineType { CLOSED, OPEN, OPEN_REPEAT_END_POINTS }**
BSpline type.
- **enum DBDataTag { DBINT, DBDOUBLE, DBSTRING, DBSEGMENTATION, DBSEGMENT }**
XML database data tag.
- **enum ColorModel { RGB, CMY, XYZ, Lab, Luv, OOO, HSI }**
Color model (HxColorModel in C++).
- **enum PixelT { INT_VALUE, REAL_VALUE, COMPLEX_VALUE }**
Pixel type.
- **enum ImageSignature { SIG2DBYTE, SIG2DSHORT, SIG2DINT, SIG2DFLOAT, SIG2DDOUBLE, SIG2DVEC2BYTE, SIG2DVEC2SHORT, SIG2DVEC2INT, SIG2DVEC2FLOAT, SIG2DVEC2DOUBLE, SIG2DVEC3BYTE, SIG2DVEC3SHORT, SIG2DVEC3INT, SIG2DVEC3FLOAT, SIG2DVEC3DOUBLE, SIG2DCOMPLEX }**
Image signature (HxImageSignature in C++).
- **enum GeoIntType { LINEAR, NEAREST }**

Geometric interpolation type.

- **enum GeoTransType** { FORWARD, BACKWARD }
Geometric transformation type.
- **enum ResultPrecision** { SOURCE_PREC, ARITH_PREC, SMALL_PREC }
Specification of precision in result value.
- **enum PixValueTag** { SI, SD, V2I, V2D, V3I, V3D, CPL }
Tag for type stored in PixValue.
- **enum TrecFaceT** { Whatever, None, One, Two, Many }
- **enum TrecYesNoT** { Yes, No }
- **enum TrecCameraT** { Whatsoever, Static, Pan, Tilt, PanTilt, Zoom, ZoomIn, ZoomOut }

1.1.1 Typedef Documentation

1.1.1.1 typedef long HxCORBA::ContourCode

A code in a contour definition.

1.1.1.2 typedef sequence<ContourCode> HxCORBA::ContourCodeSeq

A sequence of ContourCode's.

1.1.1.3 typedef sequence<Blob2d> HxCORBA::Blob2dSet

A set of Blob2d (p. 21)'s.

1.1.1.4 typedef sequence<SegmentQueryResult> HxCORBA::SegmentQueryResultSeq

A sequence of SegmentQueryResult (p. 95)'s.

1.1.1.5 typedef sequence<DBDataTag> HxCORBA::DBDataTagSeq

A sequence of DBDataTag's.

1.1.1.6 typedef sequence<DBData> HxCORBA::DBDataRow

A sequence of DBData (p. 100)'s.

1.1.1.7 typedef sequence<DBDataRow> HxCORBA::DBDataRowSeq

A sequence of DBDataRow's.

1.1.1.8 typedef sequence<double> HxCorba::BinDataSequence

Data of the bins of a histogram.

1.1.1.9 typedef sequence<HistogramMode> HxCorba::HistogramModeSeq

A sequence of HistogramMode (p. 93)'s.

1.1.1.10 typedef sequence<Histogram> HxCorba::HistogramList

A sequence of Histogram (p. 42)'s.

1.1.1.11 typedef sequence<ImageRep> HxCorba::ImageList

A sequence of ImageRep (p. 49)'s.

1.1.1.12 typedef sequence<PointR2> HxCorba::PointR2Seq

A sequence of PointR2 (p. 94)'s.

1.1.1.13 typedef sequence<string> HxCorba::NameList

A list of names (strings).

1.1.1.14 typedef sequence<long> HxCorba::RgbSeq

A sequence (array) of RGB values stored in 32-bit integers.

1.1.1.15 typedef sequence<string> HxCorba::StringSeq

A sequence of string's.

1.1.1.16 typedef sequence<octet> HxCorba::OctetSeq

A sequence of octet's.

1.1.1.17 typedef sequence<short> HxCorba::ShortSeq

A sequence of short's.

1.1.1.18 typedef sequence<long> HxCorba::LongSeq

A sequence of long's.

1.1.1.19 typedef sequence<float> HxCorba::FloatSeq

A sequence of float's.

1.1.1.20 typedef sequence<double> HxCorba::DoubleSeq

A sequence of double's.

1.1.1.21 typedef sequence<DoubleSeq> HxCorba::DoubleSeqSeq

A sequence of sequences of double's.

1.1.1.22 typedef sequence<VxTimeSpan> HxCorba::VxTimeSpanSeq

A sequence of VxTimeSpan (p. 99)'s.

1.1.1.23 typedef sequence<VxSegment> HxCorba::VxSegmentSeq

A sequence of VxSegment (p. 82)'s.

1.1.2 Enumeration Type Documentation**1.1.2.1 enum HxCorba::BSplineType**

BSpline type.

Enumeration values:

CLOSED

OPEN

OPEN_REPEAT_END_POINTS

1.1.2.2 enum HxCorba::DBDataTag

XML database data tag.

Enumeration values:

DBINT

DBDOUBLE

DBSTRING

DBSEGMENTATION

DBSEGMENT

1.1.2.3 enum HxCorba::ColorModel

Color (p. 92) model (HxColorModel in C++).

Enumeration values:

RGB

CMY

XYZ

Lab

Luv

OOO

HSI

1.1.2.4 enum HxCorba::PixelT

Pixel type.

Enumeration values:

INT_VALUE

REAL_VALUE

COMPLEX_VALUE

1.1.2.5 enum HxCorba::ImageSignature

Image signature (HxImageSignature in C++).

Enumeration values:

SIG2DBYTE

SIG2DSHORT

SIG2DINT

SIG2DFLOAT

SIG2DDOUBLE

SIG2DVEC2BYTE

SIG2DVEC2SHORT

SIG2DVEC2INT

SIG2DVEC2FLOAT

SIG2DVEC2DOUBLE

SIG2DVEC3BYTE

SIG2DVEC3SHORT

SIG2DVEC3INT

SIG2DVEC3FLOAT

SIG2DVEC3DOUBLE

SIG2DCOMPLEX

1.1.2.6 enum HxCorba::GeoIntType

Geometric interpolation type.

Enumeration values:

LINEAR
NEAREST

1.1.2.7 enum HxCorba::GeoTransType

Geometric transformation type.

Enumeration values:

FORWARD
BACKWARD

1.1.2.8 enum HxCorba::ResultPrecision

Specification of precision in result value.

Enumeration values:

SOURCE_PREC
ARITH_PREC
SMALL_PREC

1.1.2.9 enum HxCorba::PixValueTag

Tag for type stored in PixValue (p. 100).

Enumeration values:

SI
SD
V2I
V2D
V3I
V3D
CPL

1.1.2.10 enum HxCorba::TrecFaceT

Enumeration values:

Whatever
None
One
Two
Many

1.1.2.11 enum HxCorba::TrecYesNoT

Enumeration values:

- Yes
- No

1.1.2.12 enum HxCorba::TrecCameraT

Enumeration values:

- Whatsoever
- Static
- Pan
- Tilt
- PanTilt
- Zoom
- ZoomIn
- ZoomOut

1.2 HxCorbaDefParams Namespace Reference

Compounds

- interface HxCorbaDefParams::GlobalOps

1.3 HxCorbaMenu Namespace Reference

Compounds

- interface HxCorbaMenu::TagList
- struct HxCorbaMenu::TagList::Menu
- interface HxCorbaMenu::ImageRep
- struct HxCorbaMenu::ImageRep::Menu
- struct HxCorbaMenu::ImageRep::Menu::inquiry
- interface HxCorbaMenu::SF
- struct HxCorbaMenu::SF::Menu
- interface HxCorbaMenu::ImageSeq
- struct HxCorbaMenu::ImageSeq::Menu
- interface HxCorbaMenu::Histogram
- struct HxCorbaMenu::Histogram::Menu
- interface HxCorbaMenu::Blob2d
- struct HxCorbaMenu::Blob2d::Menu
- interface HxCorbaMenu::Polyline2d
- struct HxCorbaMenu::Polyline2d::Menu
- interface HxCorbaMenu::BSplineCurve
- struct HxCorbaMenu::BSplineCurve::Menu
- interface HxCorbaMenu::SampledBSplineCurve

- struct HxCorbaMenu::SampledBSplineCurve::Menu
- interface HxCorbaMenu::NJet
- struct HxCorbaMenu::NJet::Menu
- struct HxCorbaMenu::NJet::Menu::idx
- interface HxCorbaMenu::VxSegment
- struct HxCorbaMenu::VxSegment::Menu
- interface HxCorbaMenu::Constructor
- struct HxCorbaMenu::Constructor::Menu
- struct HxCorbaMenu::Constructor::Menu::ImageRep
- struct HxCorbaMenu::Constructor::Menu::SF
- struct HxCorbaMenu::Constructor::Menu::ImageSeq
- struct HxCorbaMenu::Constructor::Menu::TagList
- struct HxCorbaMenu::Constructor::Menu::Matrix
- struct HxCorbaMenu::Constructor::Menu::Polyline2d
- struct HxCorbaMenu::Constructor::Menu::BSplineCurve
- struct HxCorbaMenu::Constructor::Menu::SampledBSplineCurve
- struct HxCorbaMenu::Constructor::Menu::NJet
- interface HxCorbaMenu::GlobalOps
- struct HxCorbaMenu::GlobalOps::Menu
- struct HxCorbaMenu::GlobalOps::Menu::Images
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic::Unary
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic::Unary::Trigonometric
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic::Binary
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic::Binary::Value
- struct HxCorbaMenu::GlobalOps::Menu::Images::Arithmetic::Reduce
- struct HxCorbaMenu::GlobalOps::Menu::Images::Conversions
- struct HxCorbaMenu::GlobalOps::Menu::Images::Conversions::PixelType
- struct HxCorbaMenu::GlobalOps::Menu::Images::Color
- struct HxCorbaMenu::GlobalOps::Menu::Images::Detector
- struct HxCorbaMenu::GlobalOps::Menu::Images::Export
- struct HxCorbaMenu::GlobalOps::Menu::Images::Filter
- struct HxCorbaMenu::GlobalOps::Menu::Images::Generation
- struct HxCorbaMenu::GlobalOps::Menu::Images::Geometric
- struct HxCorbaMenu::GlobalOps::Menu::Images::Mask
- struct HxCorbaMenu::GlobalOps::Menu::Images::Morphology
- struct HxCorbaMenu::GlobalOps::Menu::Images::Morphology2
- struct HxCorbaMenu::GlobalOps::Menu::Images::Motion
- struct HxCorbaMenu::GlobalOps::Menu::Images::Noise
- struct HxCorbaMenu::GlobalOps::Menu::Images::Pixel
- struct HxCorbaMenu::GlobalOps::Menu::Images::Segmentation
- struct HxCorbaMenu::GlobalOps::Menu::Images::Retrieval
- struct HxCorbaMenu::GlobalOps::Menu::Images::ColorInvar
- struct HxCorbaMenu::GlobalOps::Menu::Images::ColorInvar::NJet
- struct HxCorbaMenu::GlobalOps::Menu::Images::ColorInvar::Histo
- struct HxCorbaMenu::GlobalOps::Menu::Images::ColorInvar::NJetHisto

Typedefs

- **typedef long operation**
(Dummy) definition of a menu entry.
- **typedef sequence< ImageRep > ImageList**
- **typedef sequence< Histogram > HistogramList**
- **typedef sequence< Blob2d > Blob2dSet**
- **typedef sequence< VxSegment > VxSegmentSeq**

1.3.1 Typedef Documentation

1.3.1.1 typedef long HxCorbaMenu::operation

(Dummy) definition of a menu entry.

1.3.1.2 typedef sequence<ImageRep> HxCorbaMenu::ImageList

1.3.1.3 typedef sequence<Histogram> HxCorbaMenu::HistogramList

1.3.1.4 typedef sequence<Blob2d> HxCorbaMenu::Blob2dSet

1.3.1.5 typedef sequence<VxSegment> HxCorbaMenu::VxSegmentSeq

Chapter 2

Interfaces

2.1 HxCorba::App Interface Reference

An interface for applications to exchange data objects.

```
#include <HxCorbaApp.idl>
```

Public Methods

- void listObjectTypes (out StringSeq sl)
- void listObjects (in string typeId, out StringSeq sl)
- Object getObject (in string typeId, in string name)
- boolean putObject (in string typeId, in string name, in Object obj)
- void listImages (out StringSeq sl)
- ImageRep getImage (in string name)
- boolean putImage (in string name, in ImageRep img)

2.1.1 Detailed Description

An interface for applications to exchange data objects.

2.1.2 Member Function Documentation

2.1.2.1 void HxCorba::App::listObjectTypes (out StringSeq *sl*)

2.1.2.2 void HxCorba::App::listObjects (in string *typeId*, out StringSeq *sl*)

2.1.2.3 Object HxCorba::App::getObject (in string *typeId*, in string *name*)

2.1.2.4 boolean HxCorba::App::putObject (in string *typeId*, in string *name*, in Object *obj*)

2.1.2.5 void HxCorba::App::listImages (out StringSeq *sl*)

2.1.2.6 ImageRep HxCorba::App::getImage (in string *name*)

2.1.2.7 boolean HxCorba::App::putImage (in string *name*, in ImageRep *img*)

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

- HxCorbaApp.idl

2.2 HxCorba::Blob2d Interface Reference

A blob in 2D (HxBlob2d in C++).

```
#include <HxCorbaBlob2d.idl>
```

Public Methods

- long ident ()
- ImageRep getInputImage ()
- ImageRep getLabeledImage ()
- long getLabel ()
- long getContourX ()
- long getContourY ()
- long getContourLength ()
- ContourCodeSeq getContourCodes ()
- void fillRgb (in RgbBuffer *buf*)
- PixValue getFeature (in string *name*)

2.2.1 Detailed Description

A blob in 2D (HxBlob2d in C++).

2.2.2 Member Function Documentation

- 2.2.2.1 long HxCorba::Blob2d::ident ()
- 2.2.2.2 ImageRep HxCorba::Blob2d::getInputImage ()
- 2.2.2.3 ImageRep HxCorba::Blob2d::getLabeledImage ()
- 2.2.2.4 long HxCorba::Blob2d::getLabel ()
- 2.2.2.5 long HxCorba::Blob2d::getContourX ()
- 2.2.2.6 long HxCorba::Blob2d::getContourY ()
- 2.2.2.7 long HxCorba::Blob2d::getContourLength ()
- 2.2.2.8 ContourCodeSeq HxCorba::Blob2d::getContourCodes ()
- 2.2.2.9 void HxCorba::Blob2d::fillRgb (in RgbBuffer *buf*)
- 2.2.2.10 PixValue HxCorba::Blob2d::getFeature (in string *name*)

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

- HxCorbaBlob2d.idl

2.3 HxCorba::BSplineCurve Interface Reference

BSplineCurve (p. 22) (HxBSplineCurve in C++).

```
#include <HxCorbaBSplineCurve.idl>
```

Public Methods

- BSplineType curveType ()
- long degree ()
- double minT ()
- double maxT ()
- PointR2 C (in double *t*)
- Polyline2d sampleC (in long *np*)
- double length (in long *np*)
- Polyline2d controlP ()
- PointR2 center ()
- long numP ()
- PointR2 P (in long *i*)
- PointR2Seq allP ()

2.3.1 Detailed Description

BSplineCurve (p. 22) (HxBSplineCurve in C++).

2.3.2 Member Function Documentation

- 2.3.2.1 `BSplineType HxCorba::BSplineCurve::curveType ()`
- 2.3.2.2 `long HxCorba::BSplineCurve::degree ()`
- 2.3.2.3 `double HxCorba::BSplineCurve::minT ()`
- 2.3.2.4 `double HxCorba::BSplineCurve::maxT ()`
- 2.3.2.5 `PointR2 HxCorba::BSplineCurve::C (in double t)`
- 2.3.2.6 `Polyline2d HxCorba::BSplineCurve::sampleC (in long np)`
- 2.3.2.7 `double HxCorba::BSplineCurve::length (in long np)`
- 2.3.2.8 `Polyline2d HxCorba::BSplineCurve::controlP ()`
- 2.3.2.9 `PointR2 HxCorba::BSplineCurve::center ()`
- 2.3.2.10 `long HxCorba::BSplineCurve::numP ()`
- 2.3.2.11 `PointR2 HxCorba::BSplineCurve::P (in long i)`
- 2.3.2.12 `PointR2Seq HxCorba::BSplineCurve::allP ()`

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

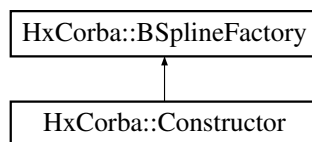
- `HxCorbaBSplineCurve.idl`

2.4 HxCorba::BSplineFactory Interface Reference

A factory for `BSplineCurve` (p. 22)'s.

```
#include <HxCorbaBSplineCurve.idl>
```

Inheritance diagram for `HxCorba::BSplineFactory`:



Public Methods

- `BSplineCurve makeUniformBSpline (in Polyline2d cp, in long degree)`
- `BSplineCurve makeInterpolatingBSpline (in Polyline2d cp)`
- `SampledBSplineCurve makeUniformSampledBSpline (in Polyline2d cp, in long degree, in double distance)`

- `SampledBSPlineCurve` `makeInterpolatingSampledBSPline` (in `Polyline2d cp`, in double *distance*)

2.4.1 Detailed Description

A factory for `BSPlineCurve` (p. 22)'s.

2.4.2 Member Function Documentation

- 2.4.2.1 `BSPlineCurve` `HxCorba::BSPlineFactory::makeUniformBSPline` (in `Polyline2d cp`, in long *degree*)
- 2.4.2.2 `BSPlineCurve` `HxCorba::BSPlineFactory::makeInterpolatingBSPline` (in `Polyline2d cp`)
- 2.4.2.3 `SampledBSPlineCurve` `HxCorba::BSPlineFactory::makeUniformSampledBSPline` (in `Polyline2d cp`, in long *degree*, in double *distance*)
- 2.4.2.4 `SampledBSPlineCurve` `HxCorba::BSPlineFactory::makeInterpolatingSampledBSPline` (in `Polyline2d cp`, in double *distance*)

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

- `HxCorbaBSPlineCurve.idl`

2.5 HxCorba::Configure Interface Reference

Interface to configure the Horus server.

```
#include <HxCorbaConfigure.idl>
```

Public Methods

- `void shutdown ()`
- `ObjectUsage getDefaultObjectUsage ()`
- `ObjectUsage getObjectUsage (in string name)`
- `StringSeq listObjectUsages ()`

2.5.1 Detailed Description

Interface to configure the Horus server.

2.5.2 Member Function Documentation

2.5.2.1 void HxCorba::Configure::shutdown ()

2.5.2.2 ObjectUsage HxCorba::Configure::getDefaultObjectUsage ()

2.5.2.3 ObjectUsage HxCorba::Configure::getObjectUsage (in string *name*)

2.5.2.4 StringSeq HxCorba::Configure::listObjectUsages ()

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

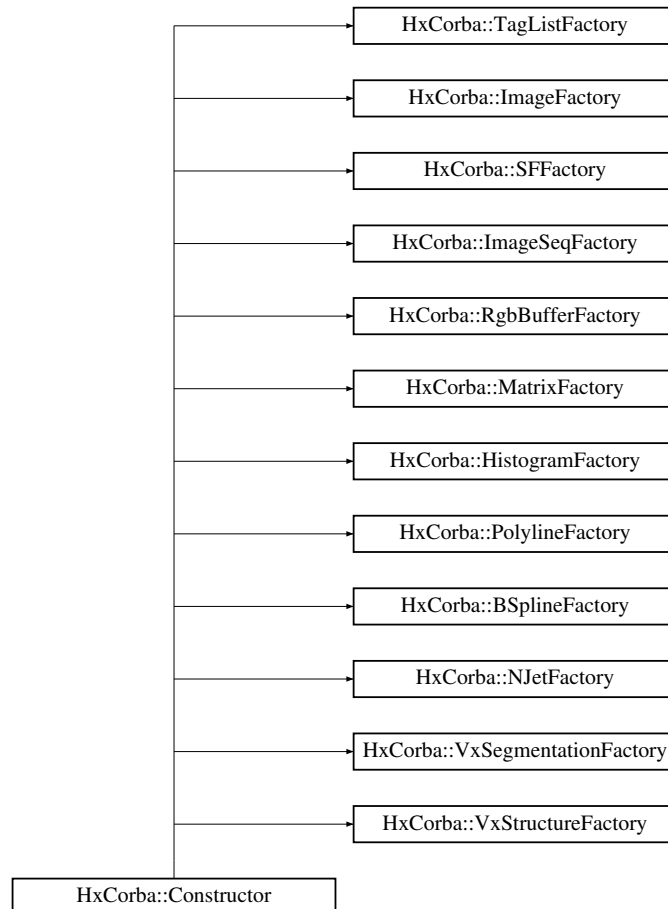
- HxCorbaConfigure.idl

2.6 HxCorba::Constructor Interface Reference

Construct Horus related CORBA objects.

```
#include <HxCorbaConstructor.idl>
```

Inheritance diagram for HxCorba::Constructor::



Public Methods

- Object getInitialObject (in string name)
- string getLastError ()

2.6.1 Detailed Description

Construct Horus related CORBA objects.

2.6.2 Member Function Documentation

2.6.2.1 Object HxCorba::Constructor::getInitialObject (in string *name*)

2.6.2.2 string HxCorba::Constructor::getLastError ()

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

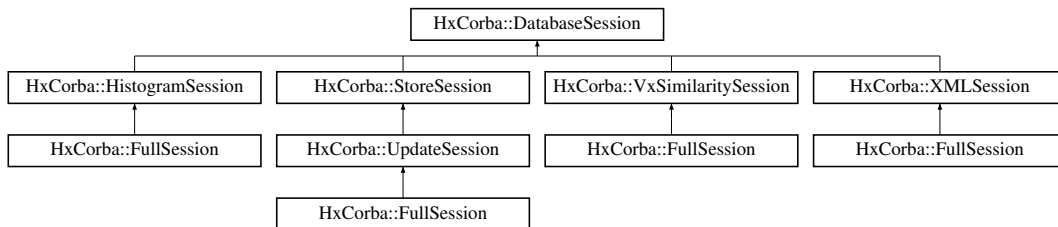
- HxCorbaConstructor.idl

2.7 HxCorba::DatabaseSession Interface Reference

A database session.

```
#include <HxCorbaDatabase.idl>
```

Inheritance diagram for HxCorba::DatabaseSession:



Public Methods

- StringSeq listVideos ()
- StringSeq listSegmentations (in string videoName)
- VxSegmentation getSegmentation (in string videoName, in string segName)
- VxSegmentSeq querySegments (in string sqlQuery) raises (DatabaseException)
- StringSeq queryStrings (in string sqlQuery) raises (DatabaseException)
- SegmentQueryResultSeq queryMultipleSegments (in string sqlQuery) raises (DatabaseException)
- void close ()

2.7.1 Detailed Description

A database session.

2.7.2 Member Function Documentation

2.7.2.1 `StringSeq HxCorba::DatabaseSession::listVideos ()`

2.7.2.2 `StringSeq HxCorba::DatabaseSession::listSegmentations (in string videoName)`

2.7.2.3 `VxSegmentation HxCorba::DatabaseSession::getSegmentation (in string videoName, in string segName)`

2.7.2.4 `VxSegmentSeq HxCorba::DatabaseSession::querySegments (in string sqlQuery)` raises (`DatabaseException`)

2.7.2.5 `StringSeq HxCorba::DatabaseSession::queryStrings (in string sqlQuery)` raises (`DatabaseException`)

2.7.2.6 `SegmentQueryResultSeq HxCorba::DatabaseSession::queryMultipleSegments (in string sqlQuery)` raises (`DatabaseException`)

2.7.2.7 `void HxCorba::DatabaseSession::close ()`

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

- `HxCorbaDatabase.idl`

2.8 HxCorba::Database Interface Reference

An interface to a database.

```
#include <HxCorbaDatabase.idl>
```

Public Methods

- `DatabaseSession openSession (in string username, in string password)` raises (`DatabaseException`)

2.8.1 Detailed Description

An interface to a database.

2.8.2 Member Function Documentation

2.8.2.1 `DatabaseSession HxCorba::Database::openSession (in string username, in string password)` raises (`DatabaseException`)

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

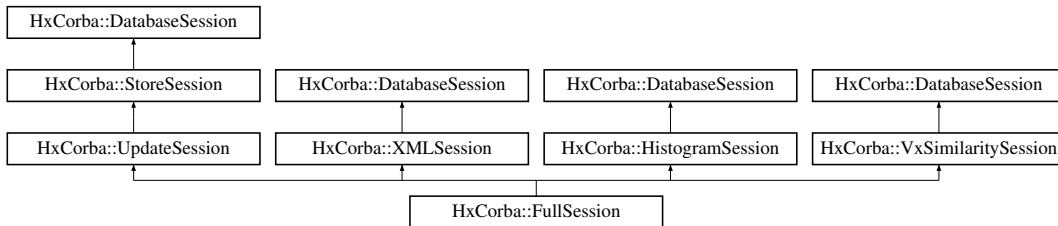
- `HxCorbaDatabase.idl`

2.9 HxCorba::FullSession Interface Reference

A full featured database session.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::FullSession::



2.9.1 Detailed Description

A full featured database session.

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

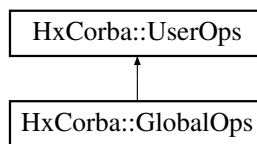
- HxCorbaDatabaseSessions.idl

2.10 HxCorba::GlobalOps Interface Reference

Global operations.

```
#include <HxCorbaGlobalOps.idl>
```

Inheritance diagram for HxCorba::GlobalOps::



Arithmetic unary

- ImageRep HxAbs (in ImageRep im)
- ImageRep HxCeil (in ImageRep im)
- ImageRep HxComplement (in ImageRep im)
- ImageRep HxExp (in ImageRep im)
- ImageRep HxFloor (in ImageRep im)
- ImageRep HxLog (in ImageRep im)
- ImageRep HxLog10 (in ImageRep im)
- ImageRep HxNegate (in ImageRep im)
- ImageRep HxNorm1 (in ImageRep im)
- ImageRep HxNorm2 (in ImageRep im)

- ImageRep HxNormInf (in ImageRep im)
- ImageRep HxProjectRange (in ImageRep im, in long dimension)
- ImageRep HxReciprocal (in ImageRep im)
- ImageRep HxSqrt (in ImageRep im)
- ImageRep HxRound (in ImageRep im)
- ImageRep HxUnaryMax (in ImageRep im)
- ImageRep HxUnaryMin (in ImageRep im)
- ImageRep HxUnaryProduct (in ImageRep im)
- ImageRep HxUnarySum (in ImageRep im)

Arithmetic unary trigonometric

- ImageRep HxAcos (in ImageRep im)
- ImageRep HxAsin (in ImageRep im)
- ImageRep HxAtan (in ImageRep im)
- ImageRep HxAtan2 (in ImageRep im)
- ImageRep HxCos (in ImageRep im)
- ImageRep HxCosh (in ImageRep im)
- ImageRep HxSin (in ImageRep im)
- ImageRep HxSinh (in ImageRep im)
- ImageRep HxTan (in ImageRep im)
- ImageRep HxTanh (in ImageRep im)
- ImageRep HxArg (in ImageRep im)
- ImageRep HxConjugate (in ImageRep im)

Arithmetic binary

- ImageRep HxAdd (in ImageRep im1, in ImageRep im2)
- ImageRep HxAddSat (in ImageRep im1, in ImageRep im2)
- ImageRep HxAnd (in ImageRep im1, in ImageRep im2)
- ImageRep HxCross (in ImageRep im1, in ImageRep im2)
- ImageRep HxDiv (in ImageRep im1, in ImageRep im2)
- ImageRep HxDot (in ImageRep im1, in ImageRep im2)
- ImageRep HxEqual (in ImageRep im1, in ImageRep im2)
- ImageRep HxGreaterEqual (in ImageRep im1, in ImageRep im2)
- ImageRep HxGreaterThan (in ImageRep im1, in ImageRep im2)
- ImageRep HxInf (in ImageRep im1, in ImageRep im2)
- ImageRep HxInverseProjectRange (in ImageRep im1, in long dimension, in ImageRep im2)
- ImageRep HxLeftShift (in ImageRep im1, in ImageRep im2)
- ImageRep HxLessEqual (in ImageRep im1, in ImageRep im2)
- ImageRep HxLessThan (in ImageRep im1, in ImageRep im2)
- ImageRep HxMax (in ImageRep im1, in ImageRep im2)
- ImageRep HxMin (in ImageRep im1, in ImageRep im2)
- ImageRep HxMod (in ImageRep im1, in ImageRep im2)
- ImageRep HxMul (in ImageRep im1, in ImageRep im2)
- ImageRep HxNotEqual (in ImageRep im1, in ImageRep im2)
- ImageRep HxOr (in ImageRep im1, in ImageRep im2)
- ImageRep HxPow (in ImageRep im1, in ImageRep im2)
- ImageRep HxRightShift (in ImageRep im1, in ImageRep im2)

- **ImageRep HxSub** (in ImageRep im1, in ImageRep im2)
- **ImageRep HxSubSat** (in ImageRep im1, in ImageRep im2)
- **ImageRep HxSup** (in ImageRep im1, in ImageRep im2)
- **ImageRep HxXor** (in ImageRep im1, in ImageRep im2)

Arithmetic binary value

- **ImageRep HxAddVal** (in ImageRep im, in PixValue val) raises (ImageException)
- **ImageRep HxAndVal** (in ImageRep im, in PixValue val)
- **ImageRep HxCrossVal** (in ImageRep im, in PixValue val)
- **ImageRep HxDivVal** (in ImageRep im, in PixValue val)
- **ImageRep HxDotVal** (in ImageRep im, in PixValue val)
- **ImageRep HxEqualVal** (in ImageRep im, in PixValue val)
- **ImageRep HxGreaterEqualVal** (in ImageRep im, in PixValue val)
- **ImageRep HxGreaterThanVal** (in ImageRep im, in PixValue val)
- **ImageRep HxInfVal** (in ImageRep im, in PixValue val)
- **ImageRep HxLeftShiftVal** (in ImageRep im, in PixValue val)
- **ImageRep HxLessEqualVal** (in ImageRep im, in PixValue val)
- **ImageRep HxLessThanVal** (in ImageRep im, in PixValue val)
- **ImageRep HxMaxVal** (in ImageRep im, in PixValue val)
- **ImageRep HxMinVal** (in ImageRep im, in PixValue val)
- **ImageRep HxModVal** (in ImageRep im, in PixValue val)
- **ImageRep HxMulVal** (in ImageRep im, in PixValue val)
- **ImageRep HxNotEqualVal** (in ImageRep im, in PixValue val)
- **ImageRep HxOrVal** (in ImageRep im, in PixValue val)
- **ImageRep HxPowVal** (in ImageRep im, in PixValue val)
- **ImageRep HxRightShiftVal** (in ImageRep im, in PixValue val)
- **ImageRep HxSubVal** (in ImageRep im, in PixValue val)
- **ImageRep HxSupVal** (in ImageRep im, in PixValue val)
- **ImageRep HxXorVal** (in ImageRep im, in PixValue val)

Arithmetic reduce

- **PixValue HxPixInf** (in ImageRep im)
- **PixValue HxPixMax** (in ImageRep im)
- **PixValue HxPixMin** (in ImageRep im)
- **PixValue HxPixProduct** (in ImageRep im)
- **PixValue HxPixSum** (in ImageRep im)
- **PixValue HxPixSup** (in ImageRep im)

Conversion

- **ImageRep HxImageAsByte** (in ImageRep img)
- **ImageRep HxImageAsDouble** (in ImageRep img)
- **ImageRep HxImageAsFloat** (in ImageRep img)
- **ImageRep HxImageAsShort** (in ImageRep img)
- **ImageRep HxImageAsVec2Byte** (in ImageRep img)
- **ImageRep HxImageAsVec2Double** (in ImageRep img)
- **ImageRep HxImageAsVec2Float** (in ImageRep img)

- ImageRep HxImageAsVec2Int (in ImageRep img)
- ImageRep HxImageAsVec2Short (in ImageRep img)
- ImageRep HxImageAsVec3Byte (in ImageRep img)
- ImageRep HxImageAsVec3Double (in ImageRep img)
- ImageRep HxImageAsVec3Float (in ImageRep img)
- ImageRep HxImageAsVec3Int (in ImageRep img)
- ImageRep HxImageAsVec3Short (in ImageRep img)
- ImageRep HxImageAsComplex (in ImageRep img)

Color

- ImageRep HxColorSpace (in ImageRep im, in ColorModel fromColorSpace, in ColorModel toColorSpace)
- ImageRep HxAffinePix (in ImageRep im, in PixValue v1, in PixValue v2, in PixValue v3)
- ImageRep HxRGB2Intensity (in ImageRep im)

Detector

- Histogram HxGreyEdgeHistogram (in ImageRep objImage, in double sigma, in double threshold)
- Histogram HxHistogramFromFile (in string fileName)
- Histogram HxImageToHistogram (in ImageRep im, in long getDim, in double lowBin, in double highBin, in long nBin)
- Histogram HxImageToHistogramMask (in ImageRep im, in long getDim, in double lowBin, in double highBin, in long nBin, in ImageRep mask, in long maskVal)
- Blob2dSet HxLabelBlobs (in ImageRep image, in ImageRep mask, in long minimalBlobArea)
- ImageRep HxHighlightRegion (in ImageRep im, in ImageRep mask, in long label, in double factor)

Export

- void HxExportMatlabPixels (in ImageRep im, inout DoubleSeq pixels)
- boolean HxWriteFile (in ImageRep im, in string fileName)
- boolean HxImagesToFile (in ImageList ims, in string fileName)

Filter

- ImageRep HxCannyEdgeMap (in ImageRep img, in double sigma)
- ImageRep HxCannyThreshold (in ImageRep img, in double sigma, in double level)
- ImageRep HxCannyThresholdAlt (in ImageRep img, in double sigma, in double level)
- ImageRep HxCannyThresholdRec (in ImageRep img, in double sigma, in double level)
- ImageRep HxConvGauss2d (in ImageRep img, in double sigmax, in long orderDerivx, in double accuracyx, in double sigmay, in long orderDerivy, in double accuracyy)
- ImageRep HxConvGauss3d (in ImageRep img, in double sigmax, in long orderDerivx, in double accuracyx, in double sigmay, in long orderDerivy, in double accuracyy, in double sigmaz, in long orderDerivz, in double accuracyz)
- ImageRep HxConvKernelSeparated (in ImageRep im, in ImageRep kernel, in ResultPrecision resPrec)

- ImageRep HxConvKernelSeparated2d (in ImageRep img, in ImageRep kernelX, in ImageRep kernelY, in ResultPrecision resPrec)
- ImageRep HxConvolution (in ImageRep im, in ImageRep kernel, in ResultPrecision resPrec)
- ImageRep HxDefuz (in ImageRep im, in long windowSzX, in long windowSzY, in double thr)
- ImageRep HxDistanceTransform (in ImageRep img)
- ImageRep HxGauss (in ImageRep img, in double sigma, in double accuracy)
- ImageRep HxGaussDerivative2d (in ImageRep img, in double sigma, in long orderDerivx, in long orderDerivy, in double accuracy)
- ImageRep HxGaussDerivative3d (in ImageRep img, in double sigma, in long orderDerivx, in long orderDerivy, in long orderDerivz, in double accuracy)
- ImageRep HxGaussianDeblur (in ImageRep im, in double dr, in double dc)
- ImageRep HxKuwahara (in ImageRep im, in long width, in long height)
- ImageRep HxLocalMode (in ImageRep f, in ImageRep g, in long nr, in double sigmax, in double sigmay, in double sigmaval, in Sizes ngbSize)
- ImageRep HxNormalizedCorrelation (in ImageRep im, in ImageRep kernel)
- ImageRep HxPercentile (in ImageRep im, in long neighSize, in double perc)
- ImageRep HxRecGauss (in ImageRep im, in double sx, in double sy, in long dx, in long dy, in long recurOrder)
- ImageRep HxUniform (in ImageRep im, in Sizes size)
- ImageRep HxUniformNonSep (in ImageRep im, in Sizes size)

Generation

- ImageRep HxMakeFrom2Images (in ImageRep i1, in ImageRep i2)
- ImageRep HxMakeFrom3Images (in ImageRep i1, in ImageRep i2, in ImageRep i3)
- ImageRep HxMakeFromByteData (in long pixelDimensionality, in long dimensions, in Sizes size, in OctetSeq data)
- ImageRep HxMakeFromDoubleData (in long pixelDimensionality, in long dimensions, in Sizes size, in DoubleSeq data)
- ImageRep HxMakeFromFile (in string fileName)
- ImageRep HxMakeFromFloatData (in long pixelDimensionality, in long dimensions, in Sizes size, in FloatSeq data)
- ImageRep HxMakeFromGrayValue (in ImageSignature signature, in Sizes size, in OctetSeq pixels)
- ImageRep HxMakeFromImage (in ImageSignature signature, in ImageRep src)
- ImageRep HxMakeFromImport (in ImageSignature signature, in Sizes size, in string import-Op, in TagList tags)
- ImageRep HxMakeFromIntData (in long pixelDimensionality, in long dimensions, in Sizes size, in LongSeq data)
- ImageRep HxMakeFromJavaRgb (in ImageSignature signature, in Sizes size, in LongSeq pixels)
- ImageRep HxMakeFromMatlab (in ImageSignature signature, in Sizes size, in DoubleSeq pixels)
- ImageRep HxMakeFromNamedGenerator (in ImageSignature signature, in string generator-Name, in TagList tags)
- ImageRep HxMakeFromPpmPixels (in ImageSignature signature, in Sizes size, in OctetSeq pixels)
- ImageRep HxMakeFromShortData (in long pixelDimensionality, in long dimensions, in Sizes size, in ShortSeq data)
- ImageRep HxMakeFromSignature (in ImageSignature signature, in Sizes size)
- ImageRep HxMakeFromValue (in ImageSignature signature, in Sizes size, in PixValue val)

- ImageRep HxMakeGaussian1d (in double sigma, in long deri, in double accuracy, in long maxfsize, in long fszize)
- ImageRep HxMakeParabola1d (in double rho, in double accuracy, in long maxfsize, in long fszize)
- ImageList HxImagesFromFile (in string fileName)

Geometric

- ImageRep HxExtend (in ImageRep img, in ImageRep background, in Point begin)
- ImageRep HxExtendVal (in ImageRep img, in Sizes newSize, in PixValue background, in Point begin)
- ImageRep HxReflect (in ImageRep img, in long doX, in long doY, in long doZ)
- ImageRep HxRestrict (in ImageRep img, in Point begin, in Point end)
- ImageRep HxRotate (in ImageRep img, in double alpha, in GeoIntType gi, in long adjustSize, in PixValue background)
- ImageRep HxScale (in ImageRep img, in double sx, in double sy, in double sz, in GeoIntType gi, in long adjustSize)
- ImageRep HxTranslate (in ImageRep img, in long sx, in long sy, in long sz)
- ImageRep HxTranspose (in ImageRep img)

Inquiry

- long HxImageMaxSize (in ImageRep img)
- long HxImageMinSize (in ImageRep img)

Mask

- PixValue HxIdentMaskMean (in ImageRep im, in ImageRep mask, in Point p, in Sizes size, in long label)
- PixValue HxIdentMaskMedian (in ImageRep im, in ImageRep mask, in Point p, in Sizes size, in long label)
- PixValue HxIdentMaskStDev (in ImageRep im, in ImageRep mask, in Point p, in Sizes size, in long label)
- PixValue HxIdentMaskSum (in ImageRep im, in ImageRep mask, in Point p, in Sizes size, in long label)
- PixValue HxIdentMaskVariance (in ImageRep im, in ImageRep mask, in Point p, in Sizes size, in long label)
- PixValue HxWeightMaskSum (in ImageRep im, in ImageRep mask, in Point p)

Morphology

- ImageRep HxAreaClosing (in ImageRep im, in long conn, in long minarea)
- ImageRep HxAreaOpening (in ImageRep im, in long conn, in long area)
- ImageRep HxClosing (in ImageRep im, in SF s)
- ImageRep HxClosingByReconstruction (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxClosingByReconstructionTopHat (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxClosingTopHat (in ImageRep im, in SF s)
- ImageRep HxConditionalDilation (in ImageRep im, in ImageRep mask, in SF s, in long nrIter)
- ImageRep HxConditionalErosion (in ImageRep im, in ImageRep mask, in SF s, in long nrIter)

- ImageRep HxDilation (in ImageRep im, in SF s)
- ImageRep HxDistanceTransformMM (in ImageRep im, in SF s)
- ImageRep HxErosion (in ImageRep im, in SF s)
- ImageRep HxGeodesicDistanceTransform (in ImageRep im, in long conn)
- ImageRep HxHilditchSkeleton (in ImageRep im)
- ImageRep HxHitOrMiss (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxInfimumReconstruction (in ImageRep im, in ImageRep mask, in SF s)
- ImageRep HxMorphologicalContour (in ImageRep im, in SF s)
- ImageRep HxMorphologicalGradient (in ImageRep im, in SF s)
- ImageRep HxMorphologicalGradient2 (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxOpening (in ImageRep im, in SF s)
- ImageRep HxOpeningByReconstruction (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxOpeningByReconstructionTopHat (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxOpeningTopHat (in ImageRep im, in SF s)
- ImageRep HxParabolicDilation (in ImageRep img, in double rho, in double accuracy)
- ImageRep HxParabolicErosion (in ImageRep img, in double rho, in double accuracy)
- ImageRep HxPeakRemoval (in ImageRep im, in long conn, in long minarea)
- ImageRep HxRegionalMaxima (in ImageRep im, in long conn)
- ImageRep HxRegionalMinima (in ImageRep im, in long conn)
- ImageRep HxSKIZ (in ImageRep im, in long conn)
- ImageRep HxSkeleton (in ImageRep im, in SF s)
- ImageRep HxSupremumReconstruction (in ImageRep im, in ImageRep mask, in SF s)
- ImageRep HxThickening (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxThinning (in ImageRep im, in SF s1, in SF s2)
- ImageRep HxValleyRemoval (in ImageRep im, in long conn, in long minarea)
- ImageRep HxWatershed (in ImageRep im, in long conn)
- ImageRep HxWatershedMarkers (in ImageRep input, in ImageRep mask, in long conn, in boolean doLabelMask)
- ImageRep HxWatershedMarkers2 (in ImageRep input, in ImageRep mask, in long conn, in boolean doLabelMask, in long costMethod)
- ImageRep HxWatershedSlow (in ImageRep im, in SF s, in string linereg)

Motion

- ImageRep HxDisplayOF (in ImageRep im, in long scale_x, in long scale_y, in double mul_x, in double mul_y, in long pixelsize)
- ImageRep HxOpticalFlow (in ImageRep im1, in ImageRep im2)
- ImageRep HxOpticalFlowMultiScale (in ImageRep im1, in ImageRep im2)

Noise

- ImageRep HxAddBinaryNoise (in ImageRep im, in double percent)
- ImageRep HxAddGaussianNoise (in ImageRep im, in double mean, in double stdev)
- ImageRep HxAddPoissonNoise (in ImageRep im, in double conversionFactor)
- ImageRep HxAddUniformNoise (in ImageRep im)

Pixel

- ImageRep HxContrastStretch (in ImageRep im, in double val)
- ImageRep HxSetBorderValue (in ImageRep im, in long w, in long h, in PixValue val)
- ImageRep HxSetPartImage (in ImageRep im, in long x1, in long y1, in long x2, in long y2, in PixValue val)
- ImageRep HxSquaredDistance (in ImageRep im1, in ImageRep im2)

Segmentation

- ImageRep HxBernsenThreshold (in ImageRep im, in long windowSz, in long uniformTh, in boolean uniformLow)
- ImageRep HxEntropyThreshold (in ImageRep im)
- ImageRep HxIsodataThreshold (in ImageRep im)
- ImageRep HxLabel (in ImageRep im, in long conn)
- ImageRep HxLabel2 (in ImageRep im, in long conn)
- ImageRep HxThreshold (in ImageRep im, in PixValue val)
- ImageRep HxTriStateThreshold (in ImageRep im, in PixValue level, in PixValue v1, in PixValue v2, in PixValue v3)

Temporal relation

- boolean VxRelEquals (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelMeets (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelBefore (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelOverlaps (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelDur (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelCon (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelMeetsAnywhere (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelBeforeAfter (in VxTimeSpan elt1, in VxTimeSpan elt2)
- boolean VxRelOverlapsAnywhere (in VxTimeSpan elt1, in VxTimeSpan elt2)
- string VxRelAsString (in VxTimeSpan elt1, in VxTimeSpan elt2)

Retrieval

- void HxIDBOpen (in string name, in string indexFile)
- StringSeq HxIDBRandom (in string name, in long n)
- StringSeq HxIDBSearch (in string key, in string name, in long n)
- void HxInvarOpenDB (in string indexFile, in string dbDir)
- StringSeq HxInvarRandom (in string invar, in long n)
- StringSeq HxInvarSearch (in ImageRep im, in string invar, in long n)
- StringSeq HxInvarSearchHisto (in HistogramList target, in string invar, in long n)
- double HxInvarMatchHistos (in HistogramList l1, in HistogramList l2)
- void HxInvarIndexDB (in string indexFile, in string dbDir, in string invar, in double s, in long bins)
- long HxInvarDBSize (in string invar)
- long HxInvarBinsPerHistogram (in string invar)
- long HxInvarChannels (in string invar)
- StringSeq HxInvarDBList (in string invar)
- FloatSeq HxInvarGetHistos (in string invar, in string key)
- StringSeq HxInvarSearchKey (in string key, in string invar, in long n)
- DoubleSeq HxInvarScores (in string invar, in long n)

ColorInvar

- ImageRep HxNJetInvarE (in NJet nj)
- ImageRep HxNJetInvarC (in NJet nj)
- ImageRep HxNJetInvarWw (in NJet nj)
- ImageRep HxNJetInvarCw (in NJet nj)
- HistogramList HxNJetInvarEHisto (in NJet nj, in long nBin)
- HistogramList HxNJetInvarCHisto (in NJet nj, in long nBin)
- HistogramList HxNJetInvarWwHisto (in NJet nj, in long nBin)
- HistogramList HxNJetInvarCwHisto (in NJet nj, in long nBin)
- HistogramList HxInvarEHisto (in ImageRep im, in double scale, in long nBin)
- HistogramList HxInvarCHisto (in ImageRep im, in double scale, in long nBin)
- HistogramList HxInvarWwHisto (in ImageRep im, in double scale, in long nBin)
- HistogramList HxInvarCwHisto (in ImageRep im, in double scale, in long nBin)
- DoubleSeqSeq HxNJetInvar (in ImageRep im, in string invar, in double scale, in long nBin)
- ImageRep HxColorInvarEw (in ImageRep im, in double scale)
- ImageRep HxColorInvarWw (in ImageRep im, in double scale)
- ImageRep HxColorInvarCw (in ImageRep im, in double scale)
- ImageRep HxColorInvarNw (in ImageRep im, in double scale)
- ImageRep HxColorInvarHw (in ImageRep im, in double scale)

2.10.1 Detailed Description

Global operations.

2.10.2 Member Function Documentation

- 2.10.2.1 ImageRep HxCorba::GlobalOps::HxAbs (in ImageRep *im*)
- 2.10.2.2 ImageRep HxCorba::GlobalOps::HxCeil (in ImageRep *im*)
- 2.10.2.3 ImageRep HxCorba::GlobalOps::HxComplement (in ImageRep *im*)
- 2.10.2.4 ImageRep HxCorba::GlobalOps::HxExp (in ImageRep *im*)
- 2.10.2.5 ImageRep HxCorba::GlobalOps::HxFloor (in ImageRep *im*)
- 2.10.2.6 ImageRep HxCorba::GlobalOps::HxLog (in ImageRep *im*)
- 2.10.2.7 ImageRep HxCorba::GlobalOps::HxLog10 (in ImageRep *im*)
- 2.10.2.8 ImageRep HxCorba::GlobalOps::HxNegate (in ImageRep *im*)
- 2.10.2.9 ImageRep HxCorba::GlobalOps::HxNorm1 (in ImageRep *im*)
- 2.10.2.10 ImageRep HxCorba::GlobalOps::HxNorm2 (in ImageRep *im*)
- 2.10.2.11 ImageRep HxCorba::GlobalOps::HxNormInf (in ImageRep *im*)
- 2.10.2.12 ImageRep HxCorba::GlobalOps::HxProjectRange (in ImageRep *im*, in long *dimension*)
- 2.10.2.13 ImageRep HxCorba::GlobalOps::HxReciprocal (in ImageRep *im*)
- 2.10.2.14 ImageRep HxCorba::GlobalOps::HxSqrt (in ImageRep *im*)
- 2.10.2.15 ImageRep HxCorba::GlobalOps::HxRound (in ImageRep *im*)
- 2.10.2.16 ImageRep HxCorba::GlobalOps::HxUnaryMax (in ImageRep *im*)
- 2.10.2.17 ImageRep HxCorba::GlobalOps::HxUnaryMin (in ImageRep *im*)
- 2.10.2.18 ImageRep HxCorba::GlobalOps::HxUnaryProduct (in ImageRep *im*)
- 2.10.2.19 ImageRep HxCorba::GlobalOps::HxUnarySum (in ImageRep *im*)
- 2.10.2.20 ImageRep HxCorba::GlobalOps::HxAcos (in ImageRep *im*)
- 2.10.2.21 ImageRep HxCorba::GlobalOps::HxAsin (in ImageRep *im*)
- 2.10.2.22 ImageRep HxCorba::GlobalOps::HxAtan (in ImageRep *im*)
- 2.10.2.23 ImageRep HxCorba::GlobalOps::HxAtan2 (in ImageRep *im*)
- 2.10.2.24 ImageRep HxCorba::GlobalOps::HxCos (in ImageRep *im*)
- 2.10.2.25 ImageRep HxCorba::GlobalOps::HxCosh (in ImageRep *im*)
- 2.10.2.26 ImageRep HxCorba::GlobalOps::HxSin (in ImageRep *im*)
- 2.10.2.27 ImageRep HxCorba::GlobalOps::HxSinh (in ImageRep *im*)
- 2.10.2.28 ImageRep HxCorba::GlobalOps::HxTan (in ImageRep *im*)
- 2.10.2.29 ImageRep HxCorba::GlobalOps::HxTanh (in ImageRep *im*)

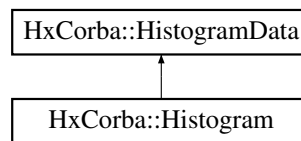
- HxCorbaGlobalOps.idl

2.11 HxCorba::HistogramData Interface Reference

All histogram data related functionality.

```
#include <HxCorbaHistogram.idl>
```

Inheritance diagram for HxCorba::HistogramData::



Public Methods

- long dimensionality ()
- long dimensionSize (in long dim)
- long nrOfBins ()
- double lowBin (in long dim)
- double highBin (in long dim)
- double binWidth (in long dim)
- double binToValue (in long bin, in long dim)
- long valueToBin (in double value, in long dim)
- double get1 (in long bin1)
- double get2 (in long bin1, in long bin2)
- double get3 (in long bin1, in long bin2, in long bin3)
- double sum ()
- double minVal ()
- double maxVal ()
- double maxValIndex (out long index)
- BinDataSequence getDataDouble ()

2.11.1 Detailed Description

All histogram data related functionality.

2.11.2 Member Function Documentation

2.11.2.1 long HxCorba::HistogramData::dimensionality ()

2.11.2.2 long HxCorba::HistogramData::dimensionSize (in long *dim*)

2.11.2.3 long HxCorba::HistogramData::nrOfBins ()

2.11.2.4 double HxCorba::HistogramData::lowBin (in long *dim*)

2.11.2.5 double HxCorba::HistogramData::highBin (in long *dim*)

2.11.2.6 double HxCorba::HistogramData::binWidth (in long *dim*)

2.11.2.7 double HxCorba::HistogramData::binToValue (in long *bin*, in long *dim*)

2.11.2.8 long HxCorba::HistogramData::valueToBin (in double *value*, in long *dim*)

2.11.2.9 double HxCorba::HistogramData::get1 (in long *bin1*)

2.11.2.10 double HxCorba::HistogramData::get2 (in long *bin1*, in long *bin2*)

2.11.2.11 double HxCorba::HistogramData::get3 (in long *bin1*, in long *bin2*, in long *bin3*)

2.11.2.12 double HxCorba::HistogramData::sum ()

2.11.2.13 double HxCorba::HistogramData::minVal ()

2.11.2.14 double HxCorba::HistogramData::maxVal ()

2.11.2.15 double HxCorba::HistogramData::maxValIndex (out long *index*)

2.11.2.16 BinDataSequence HxCorba::HistogramData::getDataDouble ()

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

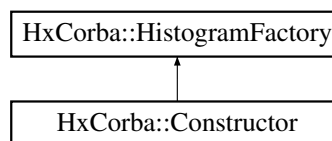
- HxCorbaHistogram.idl

2.12 HxCorba::HistogramFactory Interface Reference

A factory for [Histogram](#) (p. 42)'s.

```
#include <HxCorbaHistogram.idl>
```

Inheritance diagram for HxCorba::HistogramFactory::



Public Methods

- Histogram `makeHistogramFromFile` (in string *filename*)

2.12.1 Detailed Description

A factory for Histogram (p. 42)'s.

2.12.2 Member Function Documentation

2.12.2.1 Histogram `HxCorba::HistogramFactory::makeHistogramFromFile` (in string *filename*)

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

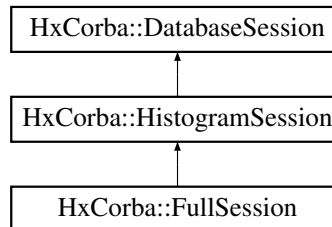
- `HxCorbaHistogram.idl`

2.13 HxCorba::HistogramSession Interface Reference

A database session for Histogram (p. 42)'s.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for `HxCorba::HistogramSession`:



Public Methods

- void `addHistogram` (in string *imageName*, in string *setName*, in `FloatSeq` *histoData*) raises (`DatabaseException`)
- `FloatSeq` `getHistogram` (in string *imageName*, in string *setName*) raises (`DatabaseException`)
- `StringSeq` `nearest` (in string *imageName*, in string *setName*, in long *count*) raises (`DatabaseException`)
- `StringSeq` `random` (in string *setName*, in long *count*) raises (`DatabaseException`)
- `StringSeq` `search` (in long *count*, in `FloatSeq` *sample*) raises (`DatabaseException`)

2.13.1 Detailed Description

A database session for Histogram (p. 42)'s.

2.13.2 Member Function Documentation

- 2.13.2.1 void HxCorba::HistogramSession::addHistogram (in string *imageName*, in string *setName*, in FloatSeq *histoData*) raises (DatabaseException)
- 2.13.2.2 FloatSeq HxCorba::HistogramSession::getHistogram (in string *imageName*, in string *setName*) raises (DatabaseException)
- 2.13.2.3 StringSeq HxCorba::HistogramSession::nearest (in string *imageName*, in string *setName*, in long *count*) raises (DatabaseException)
- 2.13.2.4 StringSeq HxCorba::HistogramSession::random (in string *setName*, in long *count*) raises (DatabaseException)
- 2.13.2.5 StringSeq HxCorba::HistogramSession::search (in long *count*, in FloatSeq *sample*) raises (DatabaseException)

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

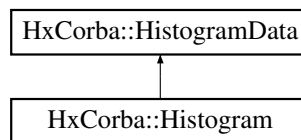
- HxCorbaDatabaseSessions.idl

2.14 HxCorba::Histogram Interface Reference

A histogram (HxHistogram in C++).

```
#include <HxCorbaHistogram.idl>
```

Inheritance diagram for HxCorba::Histogram::



Public Methods

- Histogram smooth (in double *sigma*)
- HistogramModeSeq modes ()
- Histogram normalize (in double *weight*)
- double intersection (in Histogram *h*)
- double chiSquare (in Histogram *h*)
- double chiSquareNorm (in Histogram *h*)
- Histogram threshold (in double *valThreshold*)
- long countBins (in double *valThreshold*)
- Histogram reduceRange (in long *binMin1*, in long *binMax1*, in long *binMin2*, in long *binMax2*, in long *binMin3*, in long *binMax3*)
- Histogram reduceRangeVal (in double *binValMin1*, in double *binValMax1*, in double *binValMin2*, in double *binValMax2*, in double *binValMin3*, in double *binValMax3*)
- Histogram to1D (in long *dim*)

- void render3d (in RgbBuffer buf, in long dataWidth, in long dataHeight, in double elevation, in double alpha, in double threshold)
- void destroy ()
- void put ()

2.14.1 Detailed Description

A histogram (HxHistogram in C++).

2.14.2 Member Function Documentation

- 2.14.2.1 Histogram HxCorba::Histogram::smooth (in double *sigma*)
- 2.14.2.2 HistogramModeSeq HxCorba::Histogram::modes ()
- 2.14.2.3 Histogram HxCorba::Histogram::normalize (in double *weight*)
- 2.14.2.4 double HxCorba::Histogram::intersection (in Histogram *h*)
- 2.14.2.5 double HxCorba::Histogram::chiSquare (in Histogram *h*)
- 2.14.2.6 double HxCorba::Histogram::chiSquareNorm (in Histogram *h*)
- 2.14.2.7 Histogram HxCorba::Histogram::threshold (in double *valThreshold*)
- 2.14.2.8 long HxCorba::Histogram::countBins (in double *valThreshold*)
- 2.14.2.9 Histogram HxCorba::Histogram::reduceRange (in long *binMin1*, in long *binMax1*, in long *binMin2*, in long *binMax2*, in long *binMin3*, in long *binMax3*)
- 2.14.2.10 Histogram HxCorba::Histogram::reduceRangeVal (in double *binValMin1*, in double *binValMax1*, in double *binValMin2*, in double *binValMax2*, in double *binValMin3*, in double *binValMax3*)
- 2.14.2.11 Histogram HxCorba::Histogram::to1D (in long *dim*)
- 2.14.2.12 void HxCorba::Histogram::render3d (in RgbBuffer *buf*, in long *dataWidth*, in long *dataHeight*, in double *elevation*, in double *alpha*, in double *threshold*)
- 2.14.2.13 void HxCorba::Histogram::destroy ()
- 2.14.2.14 void HxCorba::Histogram::put ()

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

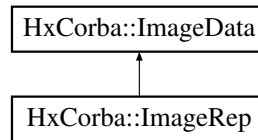
- HxCorbaHistogram.idl

2.15 HxCorba::ImageData Interface Reference

All image data related functionality.

```
#include <HxCorbaImageRep.idl>
```

Inheritance diagram for HxCorba::ImageData::



Public Methods

- long dimensionality ()
- long numberOfPixels ()
- long pixelDimensionality ()
- long pixelPrecision ()
- PixelT pixelType ()
- Sizes getSizes ()
- long dimensionSize (in long i)
- ImageSignature signature ()
- RgbSeq getRgb2d (in string displayMode)
- void fillRgb2d (in RgbBuffer buf, in string displayMode)
- ImageRepRgbSource getRgbSource ()

2.15.1 Detailed Description

All image data related functionality.

2.15.2 Member Function Documentation

2.15.2.1 long HxCorba::ImageData::dimensionality ()

2.15.2.2 long HxCorba::ImageData::numberOfPixels ()

2.15.2.3 long HxCorba::ImageData::pixelDimensionality ()

2.15.2.4 long HxCorba::ImageData::pixelPrecision ()

2.15.2.5 PixelT HxCorba::ImageData::pixelType ()

2.15.2.6 Sizes HxCorba::ImageData::getSizes ()

2.15.2.7 long HxCorba::ImageData::dimensionSize (in long *i*)

2.15.2.8 ImageSignature HxCorba::ImageData::signature ()

2.15.2.9 RgbSeq HxCorba::ImageData::getRgb2d (in string *displayMode*)

2.15.2.10 void HxCorba::ImageData::fillRgb2d (in RgbBuffer *buf*, in string *displayMode*)

2.15.2.11 ImageRepRgbSource HxCorba::ImageData::getRgbSource ()

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

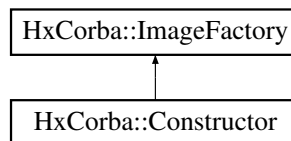
- HxCorbaImageRep.idl

2.16 HxCorba::ImageFactory Interface Reference

A factory for ImageRep (p. 49)'s.

```
#include <HxCorbaImageRep.idl>
```

Inheritance diagram for HxCorba::ImageFactory::



Public Methods

- ImageRep importImage (in ImageData data)
- ImageRep fromSignature (in ImageSignature sig, in Sizes size)
- ImageRep fromImage (in ImageSignature sig, in ImageRep src)
- ImageRep fromValue (in ImageSignature sig, in Sizes size, in PixValue val)
- ImageRep fromByteData (in long pixelDimensionality, in long dimensions, in Sizes size, in OctetSeq data)

- **ImageRep fromShortData** (in long pixelDimensionality, in long dimensions, in Sizes size, in ShortSeq data)
- **ImageRep fromIntData** (in long pixelDimensionality, in long dimensions, in Sizes size, in LongSeq data)
- **ImageRep fromFloatData** (in long pixelDimensionality, in long dimensions, in Sizes size, in FloatSeq data)
- **ImageRep fromDoubleData** (in long pixelDimensionality, in long dimensions, in Sizes size, in DoubleSeq data)
- **ImageRep fromJavaRgb** (in ImageSignature sig, in Sizes size, in RgbSeq pixels)
- **ImageRep fromGrayValue** (in ImageSignature sig, in Sizes size, in OctetSeq pixels)
- **ImageRep fromMatlab** (in ImageSignature sig, in Sizes size, in DoubleSeq pixels)
- **ImageRep fromNamedGenerator** (in ImageSignature sig, in string generatorName, in TagList tags)
- **ImageRep fromImport** (in ImageSignature sig, in Sizes size, in string importOp, in TagList tags)
- **ImageRep from2Images** (in ImageRep i1, in ImageRep i2)
- **ImageRep from3Images** (in ImageRep i1, in ImageRep i2, in ImageRep i3)
- **ImageRep fromFile** (in string fileName)

2.16.1 Detailed Description

A factory for **ImageRep** (p. 49)'s.

2.16.2 Member Function Documentation

- 2.16.2.1 ImageRep HxCorba::ImageFactory::importImage (in ImageData *data*)
- 2.16.2.2 ImageRep HxCorba::ImageFactory::fromSignature (in ImageSignature *sig*, in Sizes *size*)
- 2.16.2.3 ImageRep HxCorba::ImageFactory::fromImage (in ImageSignature *sig*, in ImageRep *src*)
- 2.16.2.4 ImageRep HxCorba::ImageFactory::fromValue (in ImageSignature *sig*, in Sizes *size*, in PixValue *val*)
- 2.16.2.5 ImageRep HxCorba::ImageFactory::fromByteData (in long *pixelDimensionality*, in long *dimensions*, in Sizes *size*, in OctetSeq *data*)
- 2.16.2.6 ImageRep HxCorba::ImageFactory::fromShortData (in long *pixelDimensionality*, in long *dimensions*, in Sizes *size*, in ShortSeq *data*)
- 2.16.2.7 ImageRep HxCorba::ImageFactory::fromIntData (in long *pixelDimensionality*, in long *dimensions*, in Sizes *size*, in LongSeq *data*)
- 2.16.2.8 ImageRep HxCorba::ImageFactory::fromFloatData (in long *pixelDimensionality*, in long *dimensions*, in Sizes *size*, in FloatSeq *data*)
- 2.16.2.9 ImageRep HxCorba::ImageFactory::fromDoubleData (in long *pixelDimensionality*, in long *dimensions*, in Sizes *size*, in DoubleSeq *data*)
- 2.16.2.10 ImageRep HxCorba::ImageFactory::fromJavaRgb (in ImageSignature *sig*, in Sizes *size*, in RgbSeq *pixels*)
- 2.16.2.11 ImageRep HxCorba::ImageFactory::fromGrayValue (in ImageSignature *sig*, in Sizes *size*, in OctetSeq *pixels*)
- 2.16.2.12 ImageRep HxCorba::ImageFactory::fromMatlab (in ImageSignature *sig*, in Sizes *size*, in DoubleSeq *pixels*)
- 2.16.2.13 ImageRep HxCorba::ImageFactory::fromNamedGenerator (in ImageSignature *sig*, in string *generatorName*, in TagList *tags*)
- 2.16.2.14 ImageRep HxCorba::ImageFactory::fromImport (in ImageSignature *sig*, in Sizes *size*, in string *importOp*, in TagList *tags*)
- 2.16.2.15 ImageRep HxCorba::ImageFactory::from2Images (in ImageRep *i1*, in ImageRep *i2*)
- 2.16.2.16 ImageRep HxCorba::ImageFactory::from3Images (in ImageRep *i1*, in ImageRep *i2*, in ImageRep *i3*)
- 2.16.2.17 ImageRep HxCorba::ImageFactory::fromFile (in string *fileName*)

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

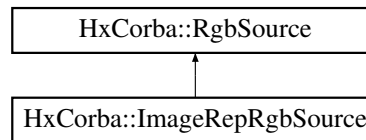
- HxCorbaImageRep.idl

2.17 HxCorba::ImageRepRgbSource Interface Reference

An [RgbSource](#) (p. 65) for display of [ImageRep](#) (p. 49)'s.

```
#include <HxCorbaImageRep.idl>
```

Inheritance diagram for HxCorba::ImageRepRgbSource::



Public Methods

- void `setDisplayMode` (in string `displayMode`)
- string `getDisplayMode` ()
- void `setSize` (in Sizes `newSize`)
- void `setMaxSize` (in Sizes `maxSize`)
- void `scale` (in float `factor`)
- void `setTransferSize` (in long `nLines`)
- long `getTransferSize` ()
- void `setTransferPos` (in long `line`)
- long `getTransferPos` ()
- Sizes `getSizes` ()
- Sizes `getOriginalSizes` ()
- void `close` ()

2.17.1 Detailed Description

An [RgbSource](#) (p. 65) for display of [ImageRep](#) (p. 49)'s.

2.17.2 Member Function Documentation

2.17.2.1 void HxCorba::ImageRepRgbSource::setDisplayMode (in string *displayMode*)

2.17.2.2 string HxCorba::ImageRepRgbSource::getDisplayMode ()

2.17.2.3 void HxCorba::ImageRepRgbSource::setSize (in Sizes *newSize*)

2.17.2.4 void HxCorba::ImageRepRgbSource::setMaxSize (in Sizes *maxSize*)

2.17.2.5 void HxCorba::ImageRepRgbSource::scale (in float *factor*)

2.17.2.6 void HxCorba::ImageRepRgbSource::setTransferSize (in long *nLines*)

2.17.2.7 long HxCorba::ImageRepRgbSource::getTransferSize ()

2.17.2.8 void HxCorba::ImageRepRgbSource::setTransferPos (in long *line*)

2.17.2.9 long HxCorba::ImageRepRgbSource::getTransferPos ()

2.17.2.10 Sizes HxCorba::ImageRepRgbSource::getSizes ()

2.17.2.11 Sizes HxCorba::ImageRepRgbSource::getOriginalSizes ()

2.17.2.12 void HxCorba::ImageRepRgbSource::close ()

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

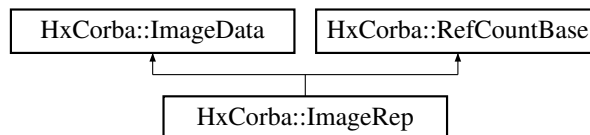
- HxCorbaImageRep.idl

2.18 HxCorba::ImageRep Interface Reference

An image representation (HxImageRep in C++).

```
#include <HxCorbaImageRep.idl>
```

Inheritance diagram for HxCorba::ImageRep::



Public Methods

- ImageRep binaryPixOp (in ImageRep arg, in string bpoName, in TagList tags) raises (ImageException)
- ImageRep binaryPixOpVal (in PixValue arg, in string bpoName, in TagList tags) raises (ImageException)
- ImageRep unaryPixOp (in string upoName, in TagList tags) raises (ImageException)

- ImageRep multiPixOp (in ImageList args, in string mpoName, in TagList tags) raises (ImageException)
- ImageList MNPixOp (in ImageList args, in string mpoName, in TagList tags) raises (ImageException)
- PixValue reduceOp (in string op, in TagList tags) raises (ImageException)
- ImageRep generalizedConvolution (in ImageRep kernel, in string gMul, in string gAdd, in ResultPrecision resPrec, in TagList tags) raises (ImageException)
- ImageRep genConv2dSep (in ImageRep kernel1, in ImageRep kernel2, in string gMul, in string gAdd, in ResultPrecision resPrec, in TagList tags) raises (ImageException)
- ImageRep recGenConv (in ImageRep kerImg, in string gMul, in string gAdd, in ResultPrecision resPrec, in TagList tags) raises (ImageException)
- ImageRep neighbourhoodOp (in string ngbName, in TagList tags) raises (ImageException)
- ImageRep geometricOp2d (in Matrix func, in GeoIntType gi, in GeoTransType gt, in boolean adjustSize, in PixValue background) raises (ImageException)
- ImageRep scale (in double sx, in double sy, in GeoIntType gi)
- PixValue getAt (in long x, in long y, in long zz)
- void destroy ()

2.18.1 Detailed Description

An image representation (HxImageRep in C++).

2.18.2 Member Function Documentation

- 2.18.2.1 ImageRep HxCorba::ImageRep::binaryPixOp (in ImageRep *arg*, in string *bpoName*, in TagList *tags*) raises (ImageException)
- 2.18.2.2 ImageRep HxCorba::ImageRep::binaryPixOpVal (in PixValue *arg*, in string *bpoName*, in TagList *tags*) raises (ImageException)
- 2.18.2.3 ImageRep HxCorba::ImageRep::unaryPixOp (in string *upoName*, in TagList *tags*) raises (ImageException)
- 2.18.2.4 ImageRep HxCorba::ImageRep::multiPixOp (in ImageList *args*, in string *mpoName*, in TagList *tags*) raises (ImageException)
- 2.18.2.5 ImageList HxCorba::ImageRep::MNPixOp (in ImageList *args*, in string *mpoName*, in TagList *tags*) raises (ImageException)
- 2.18.2.6 PixValue HxCorba::ImageRep::reduceOp (in string *op*, in TagList *tags*) raises (ImageException)
- 2.18.2.7 ImageRep HxCorba::ImageRep::generalizedConvolution (in ImageRep *kernel*, in string *gMul*, in string *gAdd*, in ResultPrecision *resPrec*, in TagList *tags*) raises (ImageException)
- 2.18.2.8 ImageRep HxCorba::ImageRep::genConv2dSep (in ImageRep *kernel1*, in ImageRep *kernel2*, in string *gMul*, in string *gAdd*, in ResultPrecision *resPrec*, in TagList *tags*) raises (ImageException)
- 2.18.2.9 ImageRep HxCorba::ImageRep::recGenConv (in ImageRep *kerImg*, in string *gMul*, in string *gAdd*, in ResultPrecision *resPrec*, in TagList *tags*) raises (ImageException)
- 2.18.2.10 ImageRep HxCorba::ImageRep::neighbourhoodOp (in string *ngbName*, in TagList *tags*) raises (ImageException)
- 2.18.2.11 ImageRep HxCorba::ImageRep::geometricOp2d (in Matrix *func*, in GeoIntType *gi*, in GeoTransType *gt*, in boolean *adjustSize*, in PixValue *background*) raises (ImageException)
- 2.18.2.12 ImageRep HxCorba::ImageRep::scale (in double *sx*, in double *sy*, in GeoIntType *gi*)
- 2.18.2.13 PixValue HxCorba::ImageRep::getAt (in long *x*, in long *y*, in long *zz*)
- 2.18.2.14 void HxCorba::ImageRep::destroy ()

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

- HxCorbaImageRep.idl

2.19 HxCorba::ImageSeqDisplayer Interface Reference

Deprecated.

```
#include <HxCorbaImageSeq.idl>
```

Public Methods

- **RgbSeq** `getRgb2d` (in long *frameNr*)
- **void** `fillRgb2d` (in long *frameNr*, in **RgbBuffer** *buf*)
- **long** `nrFrames` ()
- **void** `setDisplayMode` (in string *displayMode*)
- **string** `getDisplayMode` ()
- **void** `setSize` (in **Sizes** *newSize*)
- **Sizes** `getSizes` ()
- **Sizes** `getOriginalSizes` ()
- **void** `close` ()

2.19.1 Detailed Description

Deprecated.

2.19.2 Member Function Documentation

2.19.2.1 **RgbSeq** `HxCorba::ImageSeqDisplayer::getRgb2d` (in long *frameNr*)

2.19.2.2 **void** `HxCorba::ImageSeqDisplayer::fillRgb2d` (in long *frameNr*, in **RgbBuffer** *buf*)

2.19.2.3 **long** `HxCorba::ImageSeqDisplayer::nrFrames` ()

2.19.2.4 **void** `HxCorba::ImageSeqDisplayer::setDisplayMode` (in string *displayMode*)

2.19.2.5 **string** `HxCorba::ImageSeqDisplayer::getDisplayMode` ()

2.19.2.6 **void** `HxCorba::ImageSeqDisplayer::setSize` (in **Sizes** *newSize*)

2.19.2.7 **Sizes** `HxCorba::ImageSeqDisplayer::getSizes` ()

2.19.2.8 **Sizes** `HxCorba::ImageSeqDisplayer::getOriginalSizes` ()

2.19.2.9 **void** `HxCorba::ImageSeqDisplayer::close` ()

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

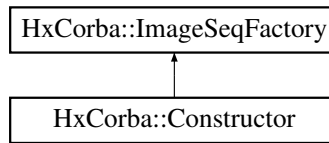
- `HxCorbaImageSeq.idl`

2.20 HxCorba::ImageSeqFactory Interface Reference

A factory for `ImageSeq` (p. 53)'s.

```
#include <HxCorbaImageSeq.idl>
```

Inheritance diagram for `HxCorba::ImageSeqFactory::`



Public Methods

- ImageSeq `constructImageSeq` (in string *name*)
- ImageSeq `constructBufferedImageSeq` (in string *name*, in long *bufSize*)
- void `setUseMDC` (in long *flag*)

2.20.1 Detailed Description

A factory for ImageSeq (p. 53)'s.

2.20.2 Member Function Documentation

2.20.2.1 ImageSeq `HxCorba::ImageSeqFactory::constructImageSeq` (in string *name*)

2.20.2.2 ImageSeq `HxCorba::ImageSeqFactory::constructBufferedImageSeq` (in string *name*, in long *bufSize*)

2.20.2.3 void `HxCorba::ImageSeqFactory::setUseMDC` (in long *flag*)

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

- HxCorbaImageSeq.idl

2.21 HxCorba::ImageSeq Interface Reference

An image sequence (HxImageSeq in C++).

```
#include <HxCorbaImageSeq.idl>
```

Public Methods

- ImageRep `getFrame` (in long *frameNr*)
- long `nrFrames` ()
- Sizes `frameSizes` ()
- RgbSeq `getRgb2d` (in long *frameNr*, in string *displayMode*)
- void `fillRgb2d` (in long *frameNr*, in RgbBuffer *buf*, in string *displayMode*)
- ImageSeqDisplayer `getDisplayer` ()
- VxSegmentation `findCuts` (in TagList *tags*)
- void `destroy` ()

2.21.1 Detailed Description

An image sequence (`HxImageSeq` in C++).

2.21.2 Member Function Documentation

2.21.2.1 `ImageRep HxCorba::ImageSeq::getFrame (in long frameNr)`

2.21.2.2 `long HxCorba::ImageSeq::nrFrames ()`

2.21.2.3 `Sizes HxCorba::ImageSeq::frameSizes ()`

2.21.2.4 `RgbSeq HxCorba::ImageSeq::getRgb2d (in long frameNr, in string displayMode)`

2.21.2.5 `void HxCorba::ImageSeq::fillRgb2d (in long frameNr, in RgbBuffer buf, in string displayMode)`

2.21.2.6 `ImageSeqDisplayer HxCorba::ImageSeq::getDisplayer ()`

2.21.2.7 `VxSegmentation HxCorba::ImageSeq::findCuts (in TagList tags)`

2.21.2.8 `void HxCorba::ImageSeq::destroy ()`

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

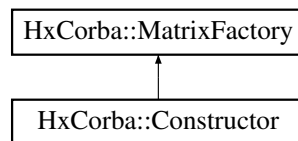
- `HxCorbaImageSeq.idl`

2.22 HxCorba::MatrixFactory Interface Reference

A factory for `Matrix` (p. 56)'s.

```
#include <HxCorbaMatrix.idl>
```

Inheritance diagram for `HxCorba::MatrixFactory`:



Public Methods

- `Matrix translate2d (in double x, in double y)`
- `Matrix scale2d (in double sx, in double sy)`
- `Matrix rotate2d (in double alpha)`
- `Matrix rotate2dDeg (in double alpha)`
- `Matrix reflect2d (in boolean doX, in boolean doY)`
- `Matrix shear2d (in double sx, in double sy)`
- `Matrix translate3d (in double x, in double y, in double z)`

- **Matrix scale3d** (in double sx, in double sy, in double sz)
- **Matrix rotateX3d** (in double alpha)
- **Matrix rotateX3dDeg** (in double alpha)
- **Matrix rotateY3d** (in double alpha)
- **Matrix rotateY3dDeg** (in double alpha)
- **Matrix rotateZ3d** (in double alpha)
- **Matrix rotateZ3dDeg** (in double alpha)
- **Matrix reflect3d** (in boolean doX, in boolean doY, in boolean doZ)
- **Matrix projection** (in double f)
- **Matrix camera** (in double f)
- **Matrix lift2dTo3dXY** ()

2.22.1 Detailed Description

A factory for **Matrix** (p. [56](#))'s.

2.22.2 Member Function Documentation

- 2.22.2.1 Matrix HxCorba::MatrixFactory::translate2d (in double *x*, in double *y*)
- 2.22.2.2 Matrix HxCorba::MatrixFactory::scale2d (in double *sx*, in double *sy*)
- 2.22.2.3 Matrix HxCorba::MatrixFactory::rotate2d (in double *alpha*)
- 2.22.2.4 Matrix HxCorba::MatrixFactory::rotate2dDeg (in double *alpha*)
- 2.22.2.5 Matrix HxCorba::MatrixFactory::reflect2d (in boolean *doX*, in boolean *doY*)
- 2.22.2.6 Matrix HxCorba::MatrixFactory::shear2d (in double *sx*, in double *sy*)
- 2.22.2.7 Matrix HxCorba::MatrixFactory::translate3d (in double *x*, in double *y*, in double *z*)
- 2.22.2.8 Matrix HxCorba::MatrixFactory::scale3d (in double *sx*, in double *sy*, in double *sz*)
- 2.22.2.9 Matrix HxCorba::MatrixFactory::rotateX3d (in double *alpha*)
- 2.22.2.10 Matrix HxCorba::MatrixFactory::rotateX3dDeg (in double *alpha*)
- 2.22.2.11 Matrix HxCorba::MatrixFactory::rotateY3d (in double *alpha*)
- 2.22.2.12 Matrix HxCorba::MatrixFactory::rotateY3dDeg (in double *alpha*)
- 2.22.2.13 Matrix HxCorba::MatrixFactory::rotateZ3d (in double *alpha*)
- 2.22.2.14 Matrix HxCorba::MatrixFactory::rotateZ3dDeg (in double *alpha*)
- 2.22.2.15 Matrix HxCorba::MatrixFactory::reflect3d (in boolean *doX*, in boolean *doY*, in boolean *doZ*)
- 2.22.2.16 Matrix HxCorba::MatrixFactory::projection (in double *f*)
- 2.22.2.17 Matrix HxCorba::MatrixFactory::camera (in double *f*)
- 2.22.2.18 Matrix HxCorba::MatrixFactory::lift2dTo3dXY ()

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

- HxCorbaMatrix.idl

2.23 HxCorba::Matrix Interface Reference

A matrix (HxMatrix in C++).

```
#include <HxCorbaMatrix.idl>
```

2.23.1 Detailed Description

A matrix (HxMatrix in C++).

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

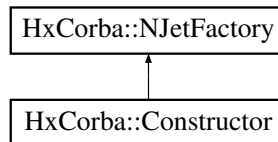
- HxCorbaMatrix.idl

2.24 HxCorba::NJetFactory Interface Reference

A factory for NJet (p. 57)'s.

```
#include <HxCorbaNJet.idl>
```

Inheritance diagram for HxCorba::NJetFactory::



Public Methods

- NJet makeNJet (in ImageRep *im*, in long *N*, in double *scale*, in double *precision*)

2.24.1 Detailed Description

A factory for NJet (p. 57)'s.

2.24.2 Member Function Documentation

2.24.2.1 NJet HxCorba::NJetFactory::makeNJet (in ImageRep *im*, in long *N*, in double *scale*, in double *precision*)

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

- HxCorbaNJet.idl

2.25 HxCorba::NJet Interface Reference

An Njet (HxNJet in C++).

```
#include <HxCorbaNJet.idl>
```

Public Methods

- long order ()

- **double scale ()**
- **long nrComponents ()**
- **boolean isColor ()**
- **ImageRep getLidx (in long i)**
- **ImageRep getJidx (in long i)**
- **ImageRep getMidx (in long i)**
- **ImageRep xy (in long x, in long y)**
- **ImageRep xyz (in long x, in long y, in long z)**
- **ImageRep xyl (in long x, in long y, in long l)**
- **ImageRep xyzl (in long x, in long y, in long z, in long l)**
- **ImageList getLList ()**
- **ImageList getJList ()**
- **ImageList getMList ()**
- **ImageList getList ()**
- **ImageRep getLw ()**
- **ImageRep getJw ()**
- **ImageRep getMw ()**

2.25.1 Detailed Description

An Njet (HxNJet in C++).

2.25.2 Member Function Documentation

2.25.2.1 long HxCorba::NJet::order ()

2.25.2.2 double HxCorba::NJet::scale ()

2.25.2.3 long HxCorba::NJet::nrComponents ()

2.25.2.4 boolean HxCorba::NJet::isColor ()

2.25.2.5 ImageRep HxCorba::NJet::getLidx (in long *i*)

2.25.2.6 ImageRep HxCorba::NJet::getJidx (in long *i*)

2.25.2.7 ImageRep HxCorba::NJet::getMidx (in long *i*)

2.25.2.8 ImageRep HxCorba::NJet::xy (in long *x*, in long *y*)

2.25.2.9 ImageRep HxCorba::NJet::xyz (in long *x*, in long *y*, in long *z*)

2.25.2.10 ImageRep HxCorba::NJet::xyl (in long *x*, in long *y*, in long *l*)

2.25.2.11 ImageRep HxCorba::NJet::xyzl (in long *x*, in long *y*, in long *z*, in long *l*)

2.25.2.12 ImageList HxCorba::NJet::getLList ()

2.25.2.13 ImageList HxCorba::NJet::getJList ()

2.25.2.14 ImageList HxCorba::NJet::getMList ()

2.25.2.15 ImageList HxCorba::NJet::getList ()

2.25.2.16 ImageRep HxCorba::NJet::getLw ()

2.25.2.17 ImageRep HxCorba::NJet::getJw ()

2.25.2.18 ImageRep HxCorba::NJet::getMw ()

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

- HxCorbaNJet.idl

2.26 HxCorba::ObjectUsage Interface Reference

Interface to configure object management in the Horus server.

```
#include <HxCorbaConfigure.idl>
```

Public Methods

- long getUsed (in string unit)

- long getTotalLimit (in string unit)
- void setTotalLimit (in string unit, in long limit)
- long getObjectLimit (in string unit)
- void setObjectLimit (in string unit, in long limit)
- StringSeq listUnits ()
- void close ()

2.26.1 Detailed Description

Interface to configure object management in the Horus server.

2.26.2 Member Function Documentation

2.26.2.1 long HxCorba::ObjectUsage::getUsed (in string *unit*)

2.26.2.2 long HxCorba::ObjectUsage::getTotalLimit (in string *unit*)

2.26.2.3 void HxCorba::ObjectUsage::setTotalLimit (in string *unit*, in long *limit*)

2.26.2.4 long HxCorba::ObjectUsage::getObjectLimit (in string *unit*)

2.26.2.5 void HxCorba::ObjectUsage::setObjectLimit (in string *unit*, in long *limit*)

2.26.2.6 StringSeq HxCorba::ObjectUsage::listUnits ()

2.26.2.7 void HxCorba::ObjectUsage::close ()

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

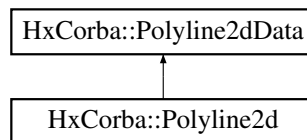
- HxCorbaConfigure.idl

2.27 HxCorba::Polyline2dData Interface Reference

All polyline data related functionality.

```
#include <HxCorbaPolyline2d.idl>
```

Inheritance diagram for HxCorba::Polyline2dData::



Public Methods

- boolean getClosed ()
- long getNrPoints ()

- PointR2 getPoint (in long i)
- PointR2Seq getPoints ()

2.27.1 Detailed Description

All polyline data related functionality.

2.27.2 Member Function Documentation

2.27.2.1 boolean HxCorba::Polyline2dData::getClosed ()

2.27.2.2 long HxCorba::Polyline2dData::getNrPoints ()

2.27.2.3 PointR2 HxCorba::Polyline2dData::getPoint (in long i)

2.27.2.4 PointR2Seq HxCorba::Polyline2dData::getPoints ()

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

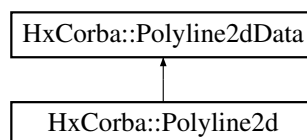
- HxCorbaPolyline2d.idl

2.28 HxCorba::Polyline2d Interface Reference

A polyline in 2D (HxPolyline2d in C++).

```
#include <HxCorbaPolyline2d.idl>
```

Inheritance diagram for HxCorba::Polyline2d::



2.28.1 Detailed Description

A polyline in 2D (HxPolyline2d in C++).

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

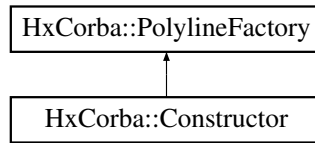
- HxCorbaPolyline2d.idl

2.29 HxCorba::PolylineFactory Interface Reference

A factory for Polyline2d (p. 61)'s.

```
#include <HxCorbaPolyline2d.idl>
```

Inheritance diagram for HxCorba::PolylineFactory::



Public Methods

- Polyline2d importPolyline (in Polyline2dData data)
- Polyline2d createPolyline (in PointR2Seq points, in boolean closed)

2.29.1 Detailed Description

A factory for Polyline2d (p. 61)'s.

2.29.2 Member Function Documentation

2.29.2.1 Polyline2d HxCorba::PolylineFactory::importPolyline (in Polyline2dData data)

2.29.2.2 Polyline2d HxCorba::PolylineFactory::createPolyline (in PointR2Seq points, in boolean closed)

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

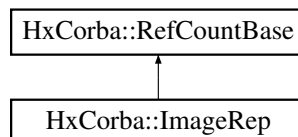
- HxCorbaPolyline2d.idl

2.30 HxCorba::RefCountBase Interface Reference

Base class for all reference counted objects.

```
#include <HxCorbaRefCountBase.idl>
```

Inheritance diagram for HxCorba::RefCountBase::



Public Methods

- void addRef ()
- void removeRef ()

2.30.1 Detailed Description

Base class for all reference counted objects.

2.30.2 Member Function Documentation

2.30.2.1 void HxCorba::RefCountBase::addRef ()

2.30.2.2 void HxCorba::RefCountBase::removeRef ()

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

- HxCorbaRefCountBase.idl

2.31 HxCorba::Registry Interface Reference

The registry (HxRegistry in C++).

```
#include <HxCorbaRegistry.idl>
```

Public Methods

- NameList getKeyNames (in string cursorKey)
- NameList getValueNames (in string cursorKey)
- NameList getValueData (in string cursorKey)

2.31.1 Detailed Description

The registry (HxRegistry in C++).

2.31.2 Member Function Documentation

2.31.2.1 NameList HxCorba::Registry::getKeyNames (in string *cursorKey*)

2.31.2.2 NameList HxCorba::Registry::getValueNames (in string *cursorKey*)

2.31.2.3 NameList HxCorba::Registry::getValueData (in string *cursorKey*)

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

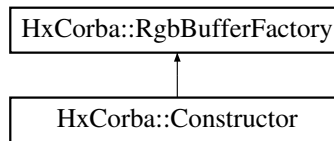
- HxCorbaRegistry.idl

2.32 HxCorba::RgbBufferFactory Interface Reference

Factory for RgbBuffer (p. 64)'s.

```
#include <HxCorbaRgbBuffer.idl>
```

Inheritance diagram for HxCorba::RgbBufferFactory::



Public Methods

- **RgbBuffer createRgbBuffer (in long size)**
Create an RgbBuffer (p. 64) with given size.

2.32.1 Detailed Description

Factory for RgbBuffer (p. 64)'s.

2.32.2 Member Function Documentation

2.32.2.1 RgbBuffer HxCorba::RgbBufferFactory::createRgbBuffer (in long size)

Create an RgbBuffer (p. 64) with given size.

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

- HxCorbaRgbBuffer.idl

2.33 HxCorba::RgbBuffer Interface Reference

A buffer for transfer of RGB data.

```
#include <HxCorbaRgbBuffer.idl>
```

Public Methods

- **long size ()**
The number of elements in the buffer.
- **RgbSeq getRgb ()**
Get the RGB data as an RgbSeq.
- **void setRgb (in RgbSeq pixels)**
Set the RGB data.

2.33.1 Detailed Description

A buffer for transfer of RGB data.

2.33.2 Member Function Documentation

2.33.2.1 long HxCorba::RgbBuffer::size ()

The number of elements in the buffer.

2.33.2.2 RgbSeq HxCorba::RgbBuffer::getRgb ()

Get the RGB data as an RgbSeq.

2.33.2.3 void HxCorba::RgbBuffer::setRgb (in RgbSeq *pixels*)

Set the RGB data.

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

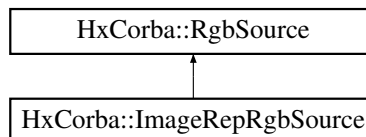
- HxCorbaRgbBuffer.idl

2.34 HxCorba::RgbSource Interface Reference

Base class for objects that deliver Rgb data.

```
#include <HxCorbaRgbBuffer.idl>
```

Inheritance diagram for HxCorba::RgbSource::



Public Methods

- RgbSeq getRgb ()
Obtain RGB data as an RgbSeq.
- void fillRgb (in RgbBuffer *buffer*)
Fill the given RgbBuffer (p. 64) with data.

2.34.1 Detailed Description

Base class for objects that deliver Rgb data.

2.34.2 Member Function Documentation

2.34.2.1 RgbSeq HxCorba::RgbSource::getRgb ()

Obtain RGB data as an RgbSeq.

2.34.2.2 void HxCorba::RgbSource::fillRgb (in RgbBuffer *buffer*)

Fill the given RgbBuffer (p. 64) with data.

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

- HxCorbaRgbBuffer.idl

2.35 HxCorba::SampledBSPlineCurve Interface Reference

A sampled BSplineCurve (p. 22) (HxSampledBSPlineCurve in C++).

```
#include <HxCorbaBSplineCurve.idl>
```

Public Methods

- BSplineCurve continuousCurve ()
- long nSamples ()
- Polyline2d CPoly ()
- PointR2 C (in long i)
- PointR2Seq allC ()
- double length ()
- Polyline2d controlP ()
- long numP ()
- PointR2Seq allP ()

2.35.1 Detailed Description

A sampled BSplineCurve (p. 22) (HxSampledBSPlineCurve in C++).

2.35.2 Member Function Documentation

2.35.2.1 `BSplineCurve HxCorba::SampledBSplineCurve::continuousCurve ()`

2.35.2.2 `long HxCorba::SampledBSplineCurve::nSamples ()`

2.35.2.3 `Polyline2d HxCorba::SampledBSplineCurve::CPoly ()`

2.35.2.4 `PointR2 HxCorba::SampledBSplineCurve::C (in long i)`

2.35.2.5 `PointR2Seq HxCorba::SampledBSplineCurve::allC ()`

2.35.2.6 `double HxCorba::SampledBSplineCurve::length ()`

2.35.2.7 `Polyline2d HxCorba::SampledBSplineCurve::controlP ()`

2.35.2.8 `long HxCorba::SampledBSplineCurve::numP ()`

2.35.2.9 `PointR2Seq HxCorba::SampledBSplineCurve::allP ()`

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

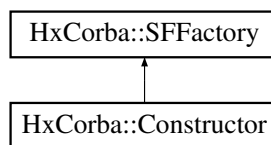
- `HxCorbaBSplineCurve.idl`

2.36 HxCorba::SFFactory Interface Reference

A factory for SF (p. 68)'s.

```
#include <HxCorbaSF.idl>
```

Inheritance diagram for `HxCorba::SFFactory::`



Public Methods

- SF `makeSFfromImage (in ImageRep im)`
- SF `makeFlatSF (in ImageSignature sig, in Sizes sz, in PixValue val)`
- SF `makeBoxSF (in ImageSignature sig, in Sizes sz, in PixValue val)`
- SF `makeCrossSF (in ImageSignature sig, in Sizes sz, in PixValue val)`
- SF `makeDiskSF (in ImageSignature sig, in Sizes sz, in PixValue val)`
- SF `makeDiamondSF (in ImageSignature sig, in Sizes sz, in PixValue val)`
- SF `makeGaussianSF (in Sizes sz, in double sigma)`
- SF `makeParabolaSF (in Sizes sz, in double sigma)`

2.36.1 Detailed Description

A factory for SF (p. 68)'s.

2.36.2 Member Function Documentation

2.36.2.1 SF HxCorba::SFFactory::makeSFfromImage (in ImageRep *im*)

2.36.2.2 SF HxCorba::SFFactory::makeFlatSF (in ImageSignature *sig*, in Sizes *sz*, in PixValue *val*)

2.36.2.3 SF HxCorba::SFFactory::makeBoxSF (in ImageSignature *sig*, in Sizes *sz*, in PixValue *val*)

2.36.2.4 SF HxCorba::SFFactory::makeCrossSF (in ImageSignature *sig*, in Sizes *sz*, in PixValue *val*)

2.36.2.5 SF HxCorba::SFFactory::makeDiskSF (in ImageSignature *sig*, in Sizes *sz*, in PixValue *val*)

2.36.2.6 SF HxCorba::SFFactory::makeDiamondSF (in ImageSignature *sig*, in Sizes *sz*, in PixValue *val*)

2.36.2.7 SF HxCorba::SFFactory::makeGaussianSF (in Sizes *sz*, in double *sigma*)

2.36.2.8 SF HxCorba::SFFactory::makeParabolaSF (in Sizes *sz*, in double *sigma*)

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

- HxCorbaSF.idl

2.37 HxCorba::SF Interface Reference

A structuring function (HxSF in C++).

```
#include <HxCorbaSF.idl>
```

Public Methods

- ImageRep getKernel ()
- ImageRep getHorizontalKernel ()
- ImageRep getVerticalKernel ()
- long isSeparable ()
- long isSymetric ()
- long getConnectivity ()

2.37.1 Detailed Description

A structuring function (HxSF in C++).

2.37.2 Member Function Documentation

2.37.2.1 ImageRep HxCorba::SF::getKernel ()

2.37.2.2 ImageRep HxCorba::SF::getHorizontalKernel ()

2.37.2.3 ImageRep HxCorba::SF::getVerticalKernel ()

2.37.2.4 long HxCorba::SF::isSeparable ()

2.37.2.5 long HxCorba::SF::isSymetric ()

2.37.2.6 long HxCorba::SF::getConnectivity ()

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

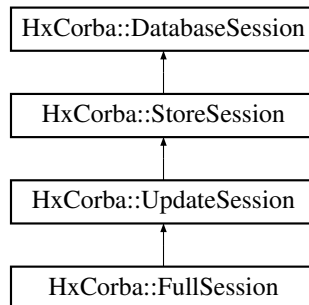
- HxCorbaSF.idl

2.38 HxCorba::StoreSession Interface Reference

A database session for storing data.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::StoreSession::



Public Methods

- void addSegmentation (in VxSegmentation seg, in string videoName, in string segName, in string description) raises (DatabaseException)
- VxSegmentationBuilder buildSegmentation (in string videoName, in string segName) raises (DatabaseException)

2.38.1 Detailed Description

A database session for storing data.

2.38.2 Member Function Documentation

2.38.2.1 void HxCorba::StoreSession::addSegmentation (in VxSegmentation *seg*, in string *videoName*, in string *segName*, in string *description*) raises (DatabaseException)

2.38.2.2 VxSegmentationBuilder HxCorba::StoreSession::buildSegmentation (in string *videoName*, in string *segName*) raises (DatabaseException)

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

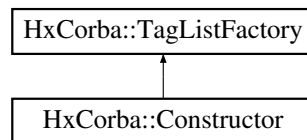
- HxCorbaDatabaseSessions.idl

2.39 HxCorba::TagListFactory Interface Reference

Factory for TagList (p. 71)'s.

```
#include <HxCorbaTagList.idl>
```

Inheritance diagram for HxCorba::TagListFactory::



Public Methods

- TagList emptyTagList ()
- TagList simpleIntTag (in string *name*, in long *val*)
- TagList simpleFloatTag (in string *name*, in double *val*)

2.39.1 Detailed Description

Factory for TagList (p. 71)'s.

2.39.2 Member Function Documentation

2.39.2.1 TagList HxCorba::TagListFactory::emptyTagList ()

2.39.2.2 TagList HxCorba::TagListFactory::simpleIntTag (in string *name*, in long *val*)

2.39.2.3 TagList HxCorba::TagListFactory::simpleFloatTag (in string *name*, in double *val*)

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

- HxCorbaTagList.idl

2.40 HxCorba::TagList Interface Reference

A list of tags (HxTagList in C++).

```
#include <HxCorbaTagList.idl>
```

Public Methods

- void addInt (in string name, in long val)
- long getInt (in string name)
- void addFloat (in string name, in double val)
- double getFloat (in string name)
- void addValue (in string name, in PixValue val)
- PixValue getValue (in string name)

2.40.1 Detailed Description

A list of tags (HxTagList in C++).

2.40.2 Member Function Documentation

2.40.2.1 void HxCorba::TagList::addInt (in string *name*, in long *val*)

2.40.2.2 long HxCorba::TagList::getInt (in string *name*)

2.40.2.3 void HxCorba::TagList::addFloat (in string *name*, in double *val*)

2.40.2.4 double HxCorba::TagList::getFloat (in string *name*)

2.40.2.5 void HxCorba::TagList::addValue (in string *name*, in PixValue *val*)

2.40.2.6 PixValue HxCorba::TagList::getValue (in string *name*)

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

- HxCorbaTagList.idl

2.41 HxCorba::Test Interface Reference

A testing interface.

```
#include <HxCorbaTest.idl>
```

Public Methods

- long printMessage (in string msg)

2.41.1 Detailed Description

A testing interface.

2.41.2 Member Function Documentation

2.41.2.1 long HxCorba::Test::printMessage (in string *msg*)

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

- HxCorbaTest.idl

2.42 HxCorba::TVCapture Interface Reference

A TV capture device.

```
#include <HxCorbaTVCapture.idl>
```

Public Methods

- Sizes getSizes ()
- RgbSeq getRgb ()
- void close ()

2.42.1 Detailed Description

A TV capture device.

2.42.2 Member Function Documentation

2.42.2.1 Sizes HxCorba::TVCapture::getSizes ()

2.42.2.2 RgbSeq HxCorba::TVCapture::getRgb ()

2.42.2.3 void HxCorba::TVCapture::close ()

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

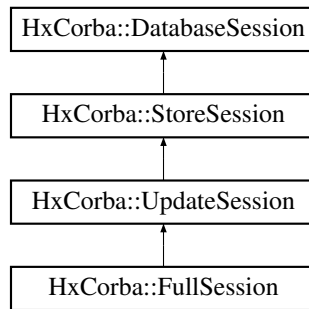
- HxCorbaTVCapture.idl

2.43 HxCorba::UpdateSession Interface Reference

A database session for modifying data.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::UpdateSession::



Public Methods

- `void removeVideo (in string videoName) raises (DatabaseException)`
- `void removeSegmentation (in VxSegmentation seg) raises (DatabaseException)`
- `void removeSegment (in VxSegment segment) raises (DatabaseException)`

2.43.1 Detailed Description

A database session for modifying data.

2.43.2 Member Function Documentation

2.43.2.1 `void HxCorba::UpdateSession::removeVideo (in string videoName) raises (DatabaseException)`

2.43.2.2 `void HxCorba::UpdateSession::removeSegmentation (in VxSegmentation seg) raises (DatabaseException)`

2.43.2.3 `void HxCorba::UpdateSession::removeSegment (in VxSegment segment) raises (DatabaseException)`

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

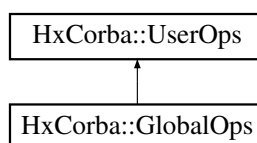
- `HxCorbaDatabaseSessions.idl`

2.44 HxCorba::UserOps Interface Reference

Global operations defined by the user.

```
#include <HxCorbaUserOps.idl>
```

Inheritance diagram for HxCorba::UserOps::



Public Methods

- void HxOpenTrecDB (in string *indexFile*, in string *dbDir*)
- SegmentQueryResultSeq HxTrecDemo (in TrecFaceT *faces*, in TrecYesNoT *monologue*, in TrecYesNoT *speech*, in TrecCameraT *camera*, in ImageRep *qimage*)
- void HxInitTrack (in ImageSeq *seq*, in long *startFrame*, in long *x0*, in long *y0*, in long *x1*, in long *y1*)
- boolean HxDoTrack (in long *nextFrame*, out long *x0*, out long *y0*, out long *x1*, out long *y1*, out boolean *occlusion*)
- void HxEndTrack ()
- string MyStringFunction ()
- MyMessage MyStringFunction2 ()
- AapFeatures JmCalcAapFeatures (in ImageRep *aap*, in ImageRep *aapSegmentation*)

2.44.1 Detailed Description

Global operations defined by the user.

2.44.2 Member Function Documentation

- 2.44.2.1 void HxCorba::UserOps::HxOpenTrecDB (in string *indexFile*, in string *dbDir*)
- 2.44.2.2 SegmentQueryResultSeq HxCorba::UserOps::HxTrecDemo (in TrecFaceT *faces*, in TrecYesNoT *monologue*, in TrecYesNoT *speech*, in TrecCameraT *camera*, in ImageRep *qimage*)
- 2.44.2.3 void HxCorba::UserOps::HxInitTrack (in ImageSeq *seq*, in long *startFrame*, in long *x0*, in long *y0*, in long *x1*, in long *y1*)
- 2.44.2.4 boolean HxCorba::UserOps::HxDoTrack (in long *nextFrame*, out long *x0*, out long *y0*, out long *x1*, out long *y1*, out boolean *occlusion*)
- 2.44.2.5 void HxCorba::UserOps::HxEndTrack ()
- 2.44.2.6 string HxCorba::UserOps::MyStringFunction ()
- 2.44.2.7 MyMessage HxCorba::UserOps::MyStringFunction2 ()
- 2.44.2.8 AapFeatures HxCorba::UserOps::JmCalcAapFeatures (in ImageRep *aap*, in ImageRep *aapSegmentation*)

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

- HxCorbaUserOps.idl

2.45 HxCorba::VideoPlayerFactory Interface Reference

A factory for VideoPlayer (p. 75)'s.

```
#include <HxCorbaVideoPlayer.idl>
```

Public Methods

- VideoPlayer makeFullPlayer (in string fileName)
- VideoPlayer makeAudioPlayer (in string fileName)

2.45.1 Detailed Description

A factory for VideoPlayer (p. 75)'s.

2.45.2 Member Function Documentation

2.45.2.1 VideoPlayer HxCorba::VideoPlayerFactory::makeFullPlayer (in string *fileName*)

2.45.2.2 VideoPlayer HxCorba::VideoPlayerFactory::makeAudioPlayer (in string *fileName*)

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

- HxCorbaVideoPlayer.idl

2.46 HxCorba::VideoPlayer Interface Reference

A video player device.

```
#include <HxCorbaVideoPlayer.idl>
```

Public Methods

- void play ()
- void stop ()
- void seek (in long frame)
- void close ()

2.46.1 Detailed Description

A video player device.

2.46.2 Member Function Documentation

2.46.2.1 void HxCorba::VideoPlayer::play ()

2.46.2.2 void HxCorba::VideoPlayer::stop ()

2.46.2.3 void HxCorba::VideoPlayer::seek (in long *frame*)

2.46.2.4 void HxCorba::VideoPlayer::close ()

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

- HxCorbaVideoPlayer.idl

2.47 HxCorba::VideoWriterFactory Interface Reference

A factory for VideoWriter (p. 76)'s.

```
#include <HxCorbaVideoWriter.idl>
```

Public Methods

- VideoWriter openVideo (in string videoName, in long w, in long h)

2.47.1 Detailed Description

A factory for VideoWriter (p. 76)'s.

2.47.2 Member Function Documentation

2.47.2.1 VideoWriter HxCorba::VideoWriterFactory::openVideo (in string *videoName*, in long *w*, in long *h*)

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

- HxCorbaVideoWriter.idl

2.48 HxCorba::VideoWriter Interface Reference

A video file writer device.

```
#include <HxCorbaVideoWriter.idl>
```

Public Methods

- void putFrame (in octet r, in octet g, in octet b)
- void putImage (in ImageRep img, in string mode)
- void closeVideo ()

2.48.1 Detailed Description

A video file writer device.

2.48.2 Member Function Documentation

2.48.2.1 void HxCorba::VideoWriter::putFrame (in octet *r*, in octet *g*, in octet *b*)

2.48.2.2 void HxCorba::VideoWriter::putImage (in ImageRep *img*, in string *mode*)

2.48.2.3 void HxCorba::VideoWriter::closeVideo ()

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

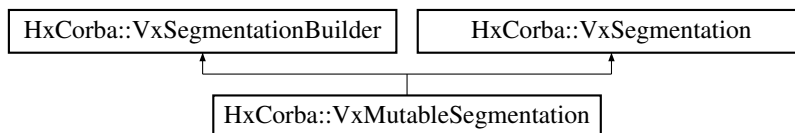
- HxCorbaVideoWriter.idl

2.49 HxCorba::VxMutableSegmentation Interface Reference

A VxSegmentation (p. 80) builder and modifier.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::VxMutableSegmentation::



Public Methods

- void removeSegment (in long *index*) raises (DatabaseException)

2.49.1 Detailed Description

A VxSegmentation (p. 80) builder and modifier.

2.49.2 Member Function Documentation

2.49.2.1 void HxCorba::VxMutableSegmentation::removeSegment (in long *index*) raises (DatabaseException)

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

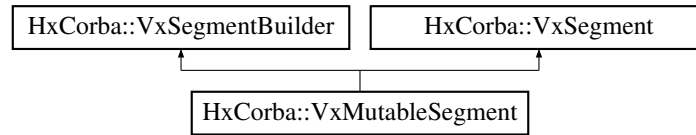
- HxCorbaDatabaseSessions.idl

2.50 HxCorba::VxMutableSegment Interface Reference

A VxSegment (p. 82) builder and modifier.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::VxMutableSegment::



Public Methods

- void setStart (in long start)
- void setEnd (in long end)
- void removeInt (in string id) raises (DatabaseException)
- void removeDouble (in string id) raises (DatabaseException)
- void removeString (in string id) raises (DatabaseException)
- void changeInt (in string id, in long newValue) raises (DatabaseException)
- void changeDouble (in string id, in double newValue) raises (DatabaseException)
- void changeString (in string id, in string newValue) raises (DatabaseException)

2.50.1 Detailed Description

A VxSegment (p. 82) builder and modifier.

2.50.2 Member Function Documentation

2.50.2.1 void HxCorba::VxMutableSegment::setStart (in long *start*)

2.50.2.2 void HxCorba::VxMutableSegment::setEnd (in long *end*)

2.50.2.3 void HxCorba::VxMutableSegment::removeInt (in string *id*) raises (DatabaseException)

2.50.2.4 void HxCorba::VxMutableSegment::removeDouble (in string *id*) raises (DatabaseException)

2.50.2.5 void HxCorba::VxMutableSegment::removeString (in string *id*) raises (DatabaseException)

2.50.2.6 void HxCorba::VxMutableSegment::changeInt (in string *id*, in long *newValue*) raises (DatabaseException)

2.50.2.7 void HxCorba::VxMutableSegment::changeDouble (in string *id*, in double *newValue*) raises (DatabaseException)

2.50.2.8 void HxCorba::VxMutableSegment::changeString (in string *id*, in string *newValue*) raises (DatabaseException)

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

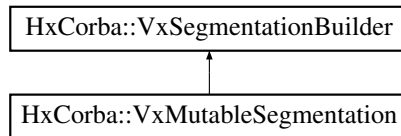
- HxCorbaDatabaseSessions.idl

2.51 HxCorba::VxSegmentationBuilder Interface Reference

A [VxSegmentation](#) (p. 80) builder.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::VxSegmentationBuilder::



Public Methods

- void `setDescription` (in string `description`)
- `VxSegmentBuilder` `buildSegment` (in long `start`, in long `end`) raises (`DatabaseException`)

2.51.1 Detailed Description

A [VxSegmentation](#) (p. 80) builder.

2.51.2 Member Function Documentation

2.51.2.1 void `HxCorba::VxSegmentationBuilder::setDescription` (in string *description*)

2.51.2.2 `VxSegmentBuilder` `HxCorba::VxSegmentationBuilder::buildSegment` (in long *start*, in long *end*) raises (`DatabaseException`)

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

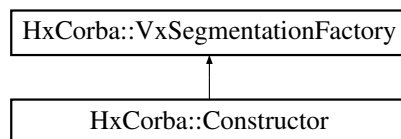
- `HxCorbaDatabaseSessions.idl`

2.52 HxCorba::VxSegmentationFactory Interface Reference

A factory for [VxSegmentation](#) (p. 80)'s.

```
#include <HxCorbaVxSegmentation.idl>
```

Inheritance diagram for HxCorba::VxSegmentationFactory::



Public Methods

- VxSegmentation makeVxSegmentation (in string filename)
- VxSegmentation importSegmentation (in VxSegmentation seg)

2.52.1 Detailed Description

A factory for VxSegmentation (p. 80)'s.

2.52.2 Member Function Documentation

2.52.2.1 VxSegmentation HxCorba::VxSegmentationFactory::makeVxSegmentation (in string filename)

2.52.2.2 VxSegmentation HxCorba::VxSegmentationFactory::importSegmentation (in VxSegmentation seg)

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

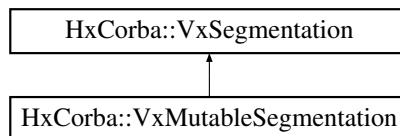
- HxCorbaVxSegmentation.idl

2.53 HxCorba::VxSegmentation Interface Reference

A video segmentation.

```
#include <HxCorbaVxSegmentation.idl>
```

Inheritance diagram for HxCorba::VxSegmentation::



Public Methods

- long size ()
- VxSegmentSeq getAll ()
- VxTimeSpanSeq getTimeSpans ()
- StringSeq getIds ()
- StringSeq getTypes ()
- VxSegment getSegment (in long index)
- VxSegment mapsToSegment (in long timeSpan)

2.53.1 Detailed Description

A video segmentation.

2.53.2 Member Function Documentation

2.53.2.1 `long HxCorba::VxSegmentation::size ()`

2.53.2.2 `VxSegmentSeq HxCorba::VxSegmentation::getAll ()`

2.53.2.3 `VxTimeSpanSeq HxCorba::VxSegmentation::getTimeSpans ()`

2.53.2.4 `StringSeq HxCorba::VxSegmentation::getIds ()`

2.53.2.5 `StringSeq HxCorba::VxSegmentation::getTypes ()`

2.53.2.6 `VxSegment HxCorba::VxSegmentation::getSegment (in long index)`

2.53.2.7 `VxSegment HxCorba::VxSegmentation::mapsToSegment (in long timeSpan)`

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

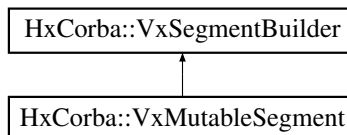
- `HxCorbaVxSegmentation.idl`

2.54 HxCorba::VxSegmentBuilder Interface Reference

A `VxSegment` (p. 82) builder.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for `HxCorba::VxSegmentBuilder::`



Public Methods

- `void addInt (in string id, in long value)` raises (`DatabaseException`)
- `void addDouble (in string id, in double value)` raises (`DatabaseException`)
- `void addString (in string id, in string value)` raises (`DatabaseException`)

2.54.1 Detailed Description

A `VxSegment` (p. 82) builder.

2.54.2 Member Function Documentation

2.54.2.1 void HxCorba::VxSegmentBuilder::addInt (in string *id*, in long *value*) raises (DatabaseException)

2.54.2.2 void HxCorba::VxSegmentBuilder::addDouble (in string *id*, in double *value*) raises (DatabaseException)

2.54.2.3 void HxCorba::VxSegmentBuilder::addString (in string *id*, in string *value*) raises (DatabaseException)

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

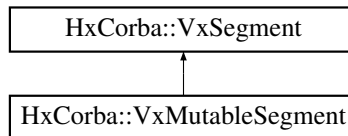
- HxCorbaDatabaseSessions.idl

2.55 HxCorba::VxSegment Interface Reference

A video segment (VxSegment (p. 82) in C++).

```
#include <HxCorbaVxSegmentation.idl>
```

Inheritance diagram for HxCorba::VxSegment::



Public Methods

- long start ()
- long end ()
- long length ()
- StringSeq getIds ()
- StringSeq getTypes ()
- long getInt (in string id)
- double getDouble (in string id)
- string getString (in string id)
- long getIntFlag (in string id, out boolean present)
- double getDoubleFlag (in string id, out boolean present)
- string getStringFlag (in string id, out boolean present)

2.55.1 Detailed Description

A video segment (VxSegment (p. 82) in C++).

2.55.2 Member Function Documentation

2.55.2.1 long HxCorba::VxSegment::start ()

2.55.2.2 long HxCorba::VxSegment::end ()

2.55.2.3 long HxCorba::VxSegment::length ()

2.55.2.4 StringSeq HxCorba::VxSegment::getIds ()

2.55.2.5 StringSeq HxCorba::VxSegment::getTypes ()

2.55.2.6 long HxCorba::VxSegment::getInt (in string *id*)

2.55.2.7 double HxCorba::VxSegment::getDouble (in string *id*)

2.55.2.8 string HxCorba::VxSegment::getString (in string *id*)

2.55.2.9 long HxCorba::VxSegment::getIntFlag (in string *id*, out boolean *present*)

2.55.2.10 double HxCorba::VxSegment::getDoubleFlag (in string *id*, out boolean *present*)

2.55.2.11 string HxCorba::VxSegment::getStringFlag (in string *id*, out boolean *present*)

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

- HxCorbaVxSegmentation.idl

2.56 HxCorba::VxSimilarityBuilder Interface Reference

A VxSimilarity builder.

```
#include <HxCorbaDatabaseSessions.idl>
```

Public Methods

- void addSimilarity (in long *index1*, in long *index2*, in double *value*, in long *keyFrame1*, in long *keyFrame2*) raises (DatabaseException)

2.56.1 Detailed Description

A VxSimilarity builder.

2.56.2 Member Function Documentation

2.56.2.1 void HxCorba::VxSimilarityBuilder::addSimilarity (in long *index1*, in long *index2*, in double *value*, in long *keyFrame1*, in long *keyFrame2*) raises (DatabaseException)

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

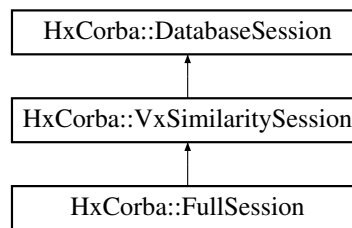
- HxCorbaDatabaseSessions.idl

2.57 HxCorba::VxSimilaritySession Interface Reference

A database session for VxSimilarity's.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::VxSimilaritySession::



Public Methods

- VxSimilarityBuilder addSimilarities (in string videoName, in string segName, in string featureName) raises (DatabaseException)

2.57.1 Detailed Description

A database session for VxSimilarity's.

2.57.2 Member Function Documentation

- 2.57.2.1 VxSimilarityBuilder HxCorba::VxSimilaritySession::addSimilarities (in string *videoName*, in string *segName*, in string *featureName*) raises (DatabaseException)

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

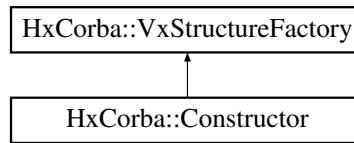
- HxCorbaDatabaseSessions.idl

2.58 HxCorba::VxStructureFactory Interface Reference

A factory for VxStructure (p. 85)'s.

```
#include <HxCorbaVxStructure.idl>
```

Inheritance diagram for HxCorba::VxStructureFactory::



Public Methods

- VxStructure `makeVxStructure` (in `string base`, in `StringSeq extLevels`)

2.58.1 Detailed Description

A factory for VxStructure (p. 85)'s.

2.58.2 Member Function Documentation

2.58.2.1 VxStructure HxCorba::VxStructureFactory::makeVxStructure (in `string base`, in `StringSeq extLevels`)

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

- `HxCorbaVxStructure.idl`

2.59 HxCorba::VxStructure Interface Reference

A video structure (VxStructure (p. 85) in C++).

```
#include <HxCorbaVxStructure.idl>
```

Public Methods

- `StringSeq getLevelNames` ()
- `boolean exist` (in `string levelId`)
- `long size` (in `string levelId`)
- `boolean push` (in `string level`, in `VxSegmentation seg`)
- `boolean pushFromFile` (in `string level`, in `string filename`)
- `VxSegmentation get` (in `string levelId`)
- `VxSegment getSegment` (in `string levelId`, in `long index`)
- `VxSegment mapsToSegment` (in `string levelId`, in `long timeSpan`)
- `VxSegmentation getFromInterval` (in `string levelId`, in `VxTimeSpan timeSpan`, in `boolean complete`)
- `VxSegmentation getWhereInt` (in `string levelId`, in `string strType`, in `long val`)
- `VxSegmentation getWhereString` (in `string levelId`, in `string strType`, in `string val`)
- `VxSegmentation getShots` ()
- `VxSegmentation getEffects` ()
- `long mapsToIndex` (in `string levelId`, in `VxTimeSpan timeSpan`)
- `long mapsToIndexInt` (in `string levelId`, in `long timeSpan`)

- LongSeq getSegmentBoundaries (in string levelId, in VxTimeSpan timeSpan)
- boolean isContinuous (in string levelId)
- boolean isSequential (in string levelId)
- boolean isParentOf (in string levelId1, in string levelId2)
- boolean isChildOf (in string levelId1, in string levelId2)
- VxStructureEval compare (in string levelId, in VxSegmentation foundTruth)

Public Attributes

- const string BLOCKS = "blocks"
- const string SHOTS = "shots"
- const string EFFECTS = "effects"
- const string SCENES = "scenes"

2.59.1 Detailed Description

A video structure (VxStructure (p. 85) in C++).

2.59.2 Member Function Documentation

- 2.59.2.1 StringSeq HxCorba::VxStructure::getLevelNames ()
- 2.59.2.2 boolean HxCorba::VxStructure::exist (in string *levelId*)
- 2.59.2.3 long HxCorba::VxStructure::size (in string *levelId*)
- 2.59.2.4 boolean HxCorba::VxStructure::push (in string *level*, in VxSegmentation *seg*)
- 2.59.2.5 boolean HxCorba::VxStructure::pushFromFile (in string *level*, in string *filename*)
- 2.59.2.6 VxSegmentation HxCorba::VxStructure::get (in string *levelId*)
- 2.59.2.7 VxSegment HxCorba::VxStructure::getSegment (in string *levelId*, in long *index*)
- 2.59.2.8 VxSegment HxCorba::VxStructure::mapsToSegment (in string *levelId*, in long *timeSpan*)
- 2.59.2.9 VxSegmentation HxCorba::VxStructure::getFromInterval (in string *levelId*, in VxTimeSpan *timeSpan*, in boolean *complete*)
- 2.59.2.10 VxSegmentation HxCorba::VxStructure::getWhereInt (in string *levelId*, in string *strType*, in long *val*)
- 2.59.2.11 VxSegmentation HxCorba::VxStructure::getWhereString (in string *levelId*, in string *strType*, in string *val*)
- 2.59.2.12 VxSegmentation HxCorba::VxStructure::getShots ()
- 2.59.2.13 VxSegmentation HxCorba::VxStructure::getEffects ()
- 2.59.2.14 long HxCorba::VxStructure::mapsToIndex (in string *levelId*, in VxTimeSpan *timeSpan*)
- 2.59.2.15 long HxCorba::VxStructure::mapsToIndexInt (in string *levelId*, in long *timeSpan*)
- 2.59.2.16 LongSeq HxCorba::VxStructure::getSegmentBoundaries (in string *levelId*, in VxTimeSpan *timeSpan*)
- 2.59.2.17 boolean HxCorba::VxStructure::isContinuous (in string *levelId*)
- 2.59.2.18 boolean HxCorba::VxStructure::isSequential (in string *levelId*)
- 2.59.2.19 boolean HxCorba::VxStructure::isParentOf (in string *levelId1*, in string *levelId2*)
- 2.59.2.20 boolean HxCorba::VxStructure::isChildOf (in string *levelId1*, in string *levelId2*)
- 2.59.2.21 VxStructureEval HxCorba::VxStructure::compare (in string *levelId*, in VxSegmentation *foundTruth*)

2.59.3 Member Data Documentation

- 2.59.3.1 const string HxCorba::VxStructure::BLOCKS = "blocks"
- 2.59.3.2 const string HxCorba::VxStructure::SHOTS = "shots"
- 2.59.3.3 const string HxCorba::VxStructure::EFFECTS = "effects"
- 2.59.3.4 const string HxCorba::VxStructure::SCENES = "scenes"

- HxCorbaVxStructure.idl

2.60 HxCorba::WebImageFactory Interface Reference

A factory for ImageData (p. 43)'s from web images.

```
#include <HxCorbaWebImageFactory.idl>
```

Public Methods

- ImageData makeImageFromURL (in string url)

2.60.1 Detailed Description

A factory for ImageData (p. 43)'s from web images.

2.60.2 Member Function Documentation

2.60.2.1 ImageData HxCorba::WebImageFactory::makeImageFromURL (in string url)

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

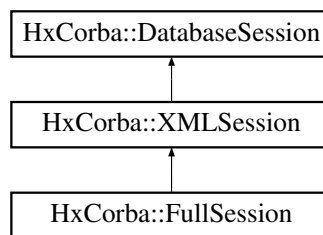
- HxCorbaWebImageFactory.idl

2.61 HxCorba::XMLSession Interface Reference

Am XML database session.

```
#include <HxCorbaDatabaseSessions.idl>
```

Inheritance diagram for HxCorba::XMLSession::



Public Methods

- string queryXML (in string sqlQuery) raises (DatabaseException)
- DBDataRowSeq queryDBData (in string sqlQuery, in DBDataTagSeq resultType) raises (DatabaseException)

2.61.1 Detailed Description

Am XML database session.

2.61.2 Member Function Documentation

2.61.2.1 `string HxCorba::XMLSession::queryXML` (in `string sqlQuery`) raises `(DatabaseException)`

2.61.2.2 `DBDataRowSeq HxCorba::XMLSession::queryDBData` (in `string sqlQuery`, in `DBDataTagSeq resultType`) raises `(DatabaseException)`

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

- `HxCorbaDatabaseSessions.idl`

Chapter 3

Exceptions, structs, and unions

3.1 HxCorba::DatabaseException Exception Reference

An exception in the database.

```
#include <HxCorbaDatabase.idl>
```

Public Attributes

- long dbCode
- string dbMessage
- string message

3.1.1 Detailed Description

An exception in the database.

3.1.2 Member Data Documentation

3.1.2.1 long HxCorba::DatabaseException::dbCode

3.1.2.2 string HxCorba::DatabaseException::dbMessage

3.1.2.3 string HxCorba::DatabaseException::message

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

- HxCorbaDatabase.idl

3.2 HxCorba::ImageException Exception Reference

An exception in an ImageRep (p. 49) operation.

```
#include <HxCorbaImageRep.idl>
```

Public Attributes

- string message

3.2.1 Detailed Description

An exception in an ImageRep (p. 49) operation.

3.2.2 Member Data Documentation

3.2.2.1 string HxCorba::ImageException::message

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

- HxCorbaImageRep.idl

3.3 HxCorba::Color Struct Reference

```
#include <HxCorbaUserOps.idl>
```

Public Attributes

- double x
- double y
- double z

3.3.1 Member Data Documentation

3.3.1.1 double HxCorba::Color::x

3.3.1.2 double HxCorba::Color::y

3.3.1.3 double HxCorba::Color::z

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

- HxCorbaUserOps.idl

3.4 HxCorba::Complex Struct Reference

Complex (p. 92) value (HxComplex in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- double x
- double y

3.4.1 Detailed Description

Complex (p. 92) value (HxComplex in C++).

3.4.2 Member Data Documentation

3.4.2.1 double HxCorba::Complex::x

3.4.2.2 double HxCorba::Complex::y

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

- HxCorbaPixValue.idl

3.5 HxCorba::HistogramMode Struct Reference

HistogramMode (p. 93).

```
#include <HxCorbaHistogram.idl>
```

Public Attributes

- double x
- double y

3.5.1 Detailed Description

HistogramMode (p. 93).

3.5.2 Member Data Documentation

3.5.2.1 double HxCorba::HistogramMode::x

3.5.2.2 double HxCorba::HistogramMode::y

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

- HxCorbaHistogram.idl

3.6 HxCorba::PointR2 Struct Reference

A point in R2 (HxPointR2 in C++).

```
#include <HxCorbaPolyline2d.idl>
```

Public Attributes

- double x
- double y

3.6.1 Detailed Description

A point in R2 (HxPointR2 in C++).

3.6.2 Member Data Documentation

3.6.2.1 double HxCorba::PointR2::x

3.6.2.2 double HxCorba::PointR2::y

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

- HxCorbaPolyline2d.idl

3.7 HxCorba::Point Struct Reference

A point in R3 (HxPoint in C++).

```
#include <HxCorbaImageRep.idl>
```

Public Attributes

- double x
- double y
- double z

3.7.1 Detailed Description

A point in R3 (HxPoint in C++).

3.7.2 Member Data Documentation

3.7.2.1 double HxCorba::Point::x

3.7.2.2 double HxCorba::Point::y

3.7.2.3 double HxCorba::Point::z

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

- HxCorbaImageRep.idl

3.8 HxCorba::SegmentQueryResult Struct Reference

A segment as query result.

```
#include <HxCorbaDatabase.idl>
```

Public Attributes

- string videoName
- string segmentationName
- VxSegment segment
- VxTimeSpan time

3.8.1 Detailed Description

A segment as query result.

3.8.2 Member Data Documentation

3.8.2.1 string HxCorba::SegmentQueryResult::videoName

3.8.2.2 string HxCorba::SegmentQueryResult::segmentationName

3.8.2.3 VxSegment HxCorba::SegmentQueryResult::segment

3.8.2.4 VxTimeSpan HxCorba::SegmentQueryResult::time

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

- HxCorbaDatabase.idl

3.9 HxCorba::Sizes Struct Reference

Size specification in Z3 (HxSizes in C++).

```
#include <HxCorbaImageRep.idl>
```

Public Attributes

- long x
- long y
- long z

3.9.1 Detailed Description

Size specification in Z3 (HxSizes in C++).

3.9.2 Member Data Documentation

3.9.2.1 long HxCorba::Sizes::x

3.9.2.2 long HxCorba::Sizes::y

3.9.2.3 long HxCorba::Sizes::z

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

- HxCorbaImageRep.idl

3.10 HxCorba::Vec2D Struct Reference

Vector of 2 doubles (HxVec2Double in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- double x
- double y

3.10.1 Detailed Description

Vector of 2 doubles (HxVec2Double in C++).

3.10.2 Member Data Documentation

3.10.2.1 double HxCorba::Vec2D::x

3.10.2.2 double HxCorba::Vec2D::y

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

- HxCorbaPixValue.idl

3.11 HxCorba::Vec2I Struct Reference

Vector of 2 integers (HxVec2Int in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- long x
- long y

3.11.1 Detailed Description

Vector of 2 integers (HxVec2Int in C++).

3.11.2 Member Data Documentation

3.11.2.1 long HxCorba::Vec2I::x

3.11.2.2 long HxCorba::Vec2I::y

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

- HxCorbaPixValue.idl

3.12 HxCorba::Vec3D Struct Reference

Vector of 3 doubles (HxVec3Double in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- double x
- double y
- double z

3.12.1 Detailed Description

Vector of 3 doubles (HxVec3Double in C++).

3.12.2 Member Data Documentation

3.12.2.1 double HxCorba::Vec3D::x

3.12.2.2 double HxCorba::Vec3D::y

3.12.2.3 double HxCorba::Vec3D::z

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

- HxCorbaPixValue.idl

3.13 HxCorba::Vec3I Struct Reference

Vector of 3 integers (HxVec3Int in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- long x
- long y
- long z

3.13.1 Detailed Description

Vector of 3 integers (HxVec3Int in C++).

3.13.2 Member Data Documentation

3.13.2.1 long HxCorba::Vec3I::x

3.13.2.2 long HxCorba::Vec3I::y

3.13.2.3 long HxCorba::Vec3I::z

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

- HxCorbaPixValue.idl

3.14 HxCorba::VxStructureEval Struct Reference

A video structure evaluation.

```
#include <HxCorbaVxStructure.idl>
```

Public Attributes

- long correct
- long missed
- long falseAlarm

3.14.1 Detailed Description

A video structure evaluation.

3.14.2 Member Data Documentation

3.14.2.1 long HxCorba::VxStructureEval::correct

3.14.2.2 long HxCorba::VxStructureEval::missed

3.14.2.3 long HxCorba::VxStructureEval::falseAlarm

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

- HxCorbaVxStructure.idl

3.15 HxCorba::VxTimeSpan Struct Reference

A time span in a video.

```
#include <HxCorbaVxSegmentation.idl>
```

Public Attributes

- long start
- long end

3.15.1 Detailed Description

A time span in a video.

3.15.2 Member Data Documentation

3.15.2.1 long HxCorba::VxTimeSpan::start

3.15.2.2 long HxCorba::VxTimeSpan::end

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

- HxCorbaVxSegmentation.idl

3.16 HxCorba::DBData Union Reference

XML database data.

```
#include <HxCorbaDatabaseSessions.idl>
```

Public Attributes

- long intData
- double doubleData
- string stringData
- VxSegmentation segmentation
- VxSegment segment

3.16.1 Detailed Description

XML database data.

3.16.2 Member Data Documentation

3.16.2.1 long HxCorba::DBData::intData

3.16.2.2 double HxCorba::DBData::doubleData

3.16.2.3 string HxCorba::DBData::stringData

3.16.2.4 VxSegmentation HxCorba::DBData::segmentation

3.16.2.5 VxSegment HxCorba::DBData::segment

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

- HxCorbaDatabaseSessions.idl

3.17 HxCorba::PixValue Union Reference

A pixel value (HxValue in C++).

```
#include <HxCorbaPixValue.idl>
```

Public Attributes

- long scalarInt
- double scalarDouble
- Vec2I vect2Int
- Vec2D vect2Double
- Vec3I vect3Int
- Vec3D vect3Double
- Complex cplx

3.17.1 Detailed Description

A pixel value (HxValue in C++).

3.17.2 Member Data Documentation

3.17.2.1 long HxCorba::PixValue::scalarInt

3.17.2.2 double HxCorba::PixValue::scalarDouble

3.17.2.3 Vec2I HxCorba::PixValue::vect2Int

3.17.2.4 Vec2D HxCorba::PixValue::vect2Double

3.17.2.5 Vec3I HxCorba::PixValue::vect3Int

3.17.2.6 Vec3D HxCorba::PixValue::vect3Double

3.17.2.7 Complex HxCorba::PixValue::cplx

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

- HxCorbaPixValue.idl

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