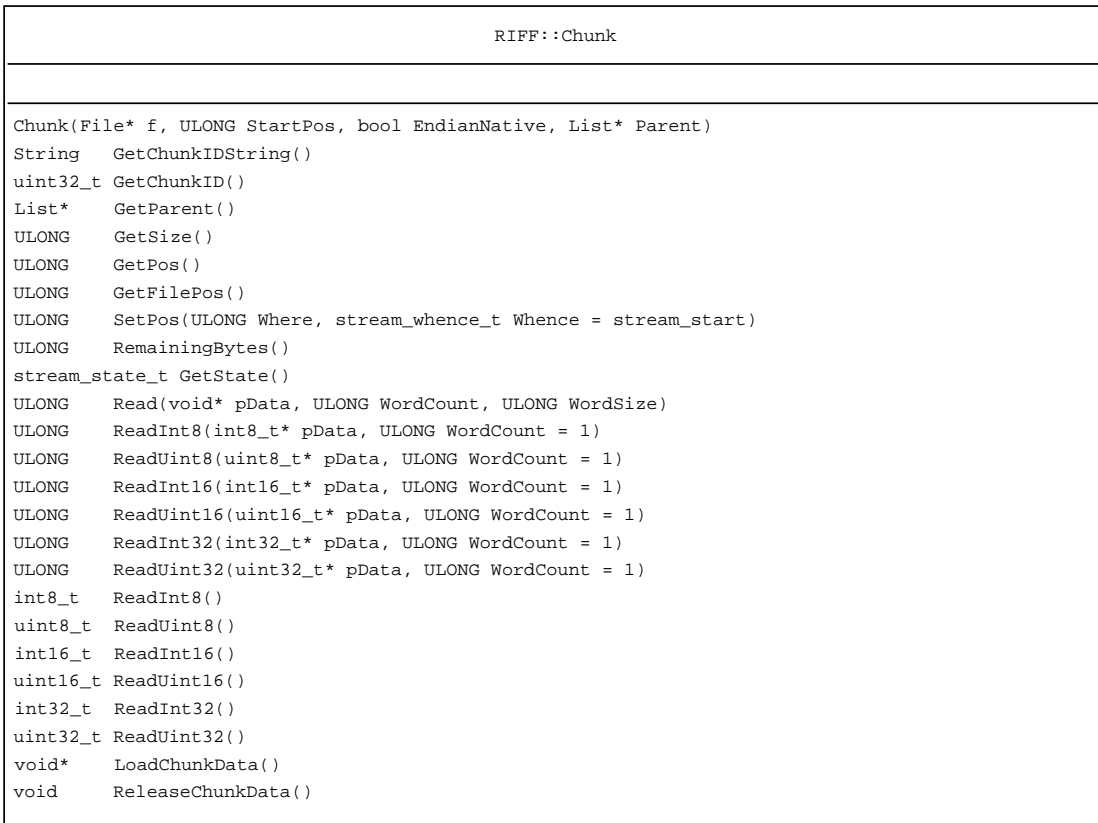
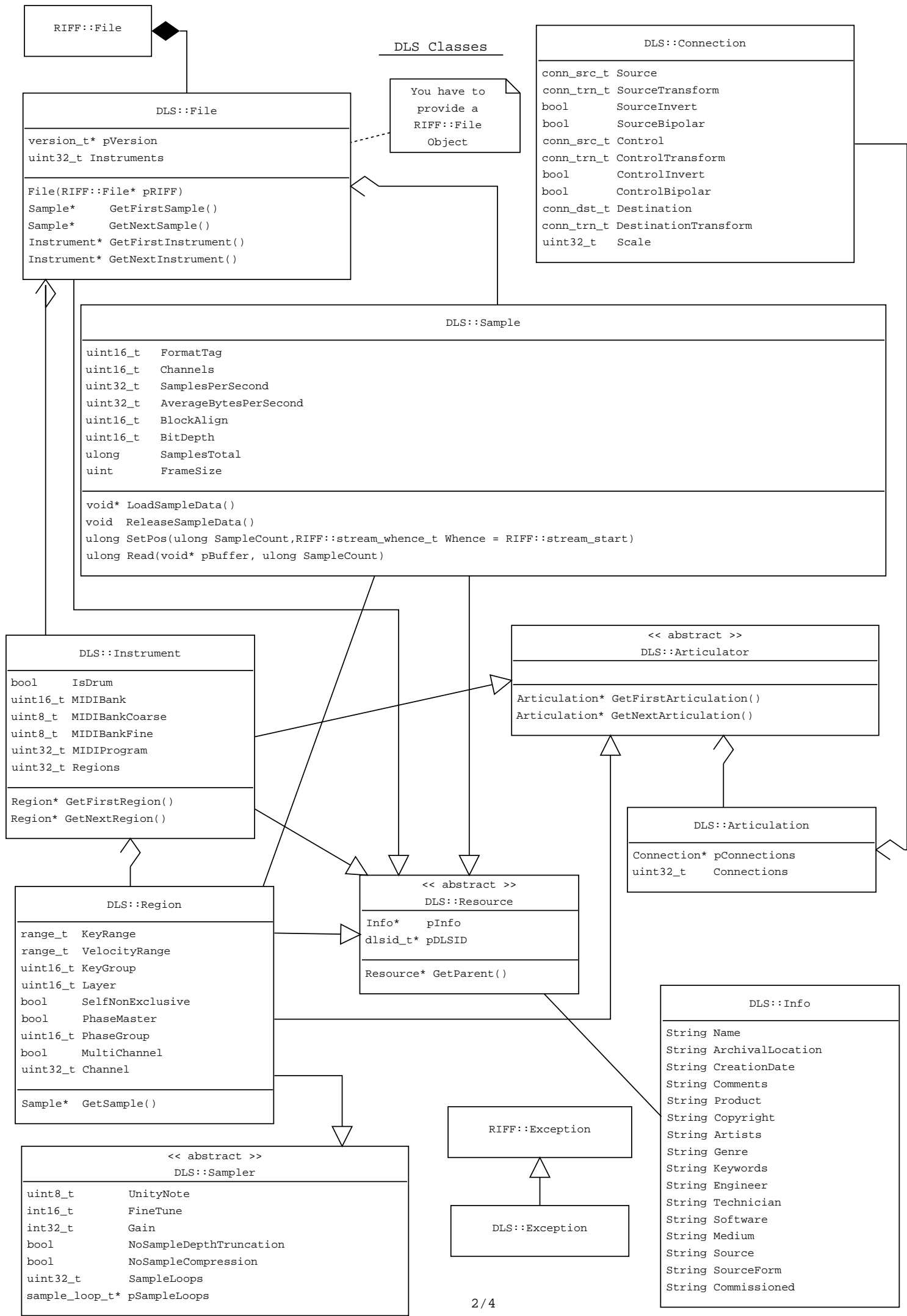


RIFF classes

If you just want to load a Gigasampler or DLS file, the only class here you should know about is the RIFF::File class. You have to provide an instantiation of that class to either the gig::File constructor or the DLS::File constructor.





**DLS Classes**

You have to provide a RIFF::File Object

```

class DLS::Connection {
  conn_src_t Source
  conn_trn_t SourceTransform
  bool SourceInvert
  bool SourceBipolar
  conn_src_t Control
  conn_trn_t ControlTransform
  bool ControlInvert
  bool ControlBipolar
  conn_dst_t Destination
  conn_trn_t DestinationTransform
  uint32_t Scale
}
  
```

```

class DLS::File {
  version_t* pVersion
  uint32_t Instruments

  File(RIFF::File* pRIFF)
  Sample* GetFirstSample()
  Sample* GetNextSample()
  Instrument* GetFirstInstrument()
  Instrument* GetNextInstrument()
}
  
```

```

class DLS::Sample {
  uint16_t FormatTag
  uint16_t Channels
  uint32_t SamplesPerSecond
  uint32_t AverageBytesPerSecond
  uint16_t BlockAlign
  uint16_t BitDepth
  ulong SamplesTotal
  uint FrameSize

  void* LoadSampleData()
  void ReleaseSampleData()
  ulong SetPos(ulong SampleCount, RIFF::stream_whence_t Whence = RIFF::stream_start)
  ulong Read(void* pBuffer, ulong SampleCount)
}
  
```

```

class DLS::Instrument {
  bool IsDrum
  uint16_t MIDIBank
  uint8_t MIDIBankCoarse
  uint8_t MIDIBankFine
  uint32_t MIDIProgram
  uint32_t Regions

  Region* GetFirstRegion()
  Region* GetNextRegion()
}
  
```

```

class << abstract >> DLS::Articulator {
  Articulation* GetFirstArticulation()
  Articulation* GetNextArticulation()
}
  
```

```

class DLS::Articulation {
  Connection* pConnections
  uint32_t Connections
}
  
```

```

class DLS::Region {
  range_t KeyRange
  range_t VelocityRange
  uint16_t KeyGroup
  uint16_t Layer
  bool SelfNonExclusive
  bool PhaseMaster
  uint16_t PhaseGroup
  bool MultiChannel
  uint32_t Channel

  Sample* GetSample()
}
  
```

```

class << abstract >> DLS::Resource {
  Info* pInfo
  dlsid_t* pDLSID

  Resource* GetParent()
}
  
```

```

class DLS::Info {
  String Name
  String ArchivalLocation
  String CreationDate
  String Comments
  String Product
  String Copyright
  String Artists
  String Genre
  String Keywords
  String Engineer
  String Technician
  String Software
  String Medium
  String Source
  String SourceForm
  String Commissioned
}
  
```

```

class RIFF::Exception
  
```

```

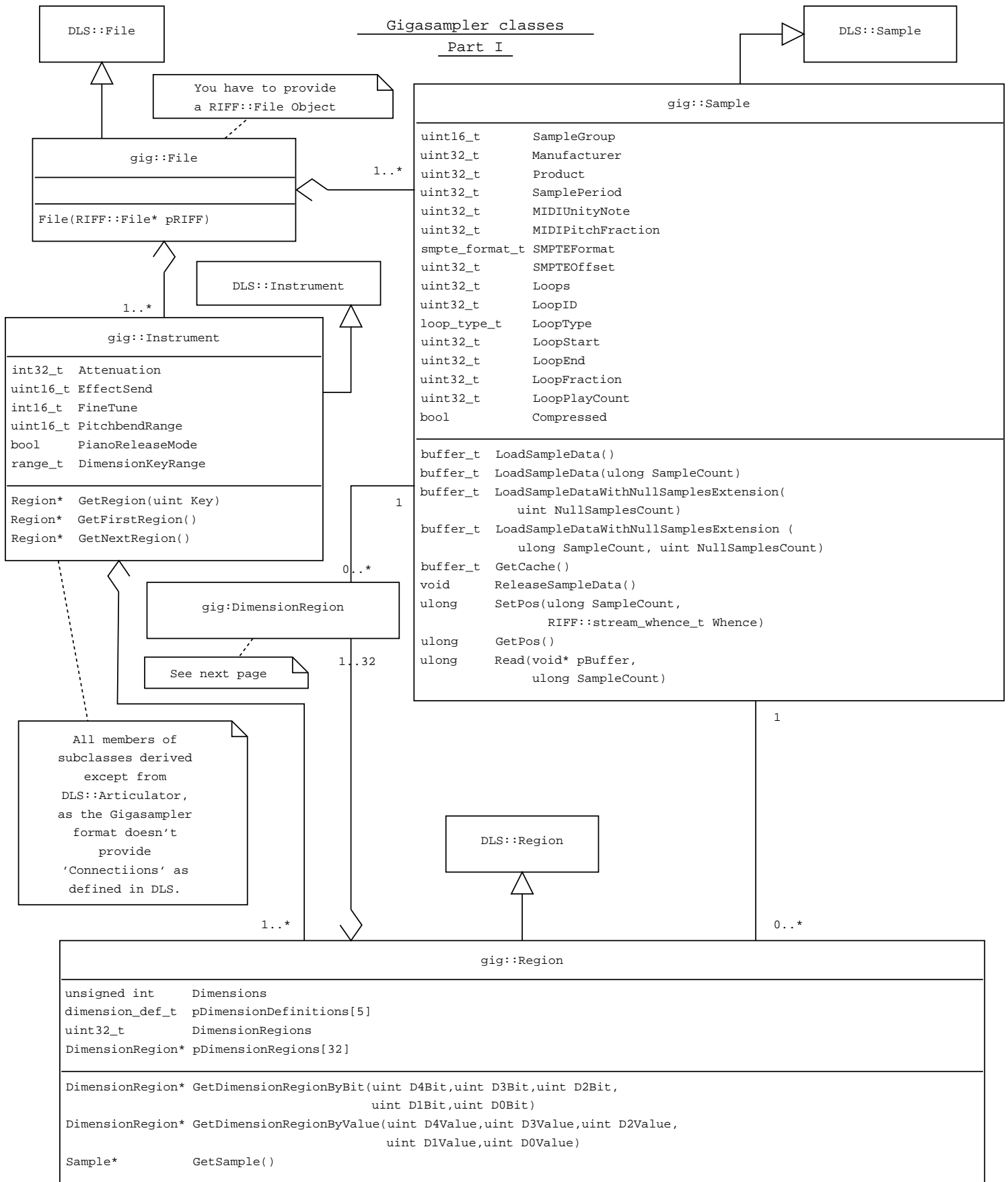
class DLS::Exception
  
```

```

class << abstract >> DLS::Sampler {
  uint8_t UnityNote
  int16_t FineTune
  int32_t Gain
  bool NoSampleDepthTruncation
  bool NoSampleCompression
  uint32_t SampleLoops
  sample_loop_t* pSampleLoops
}
  
```

Gigasampler classes

Part I



You have to provide a RIFF::File Object

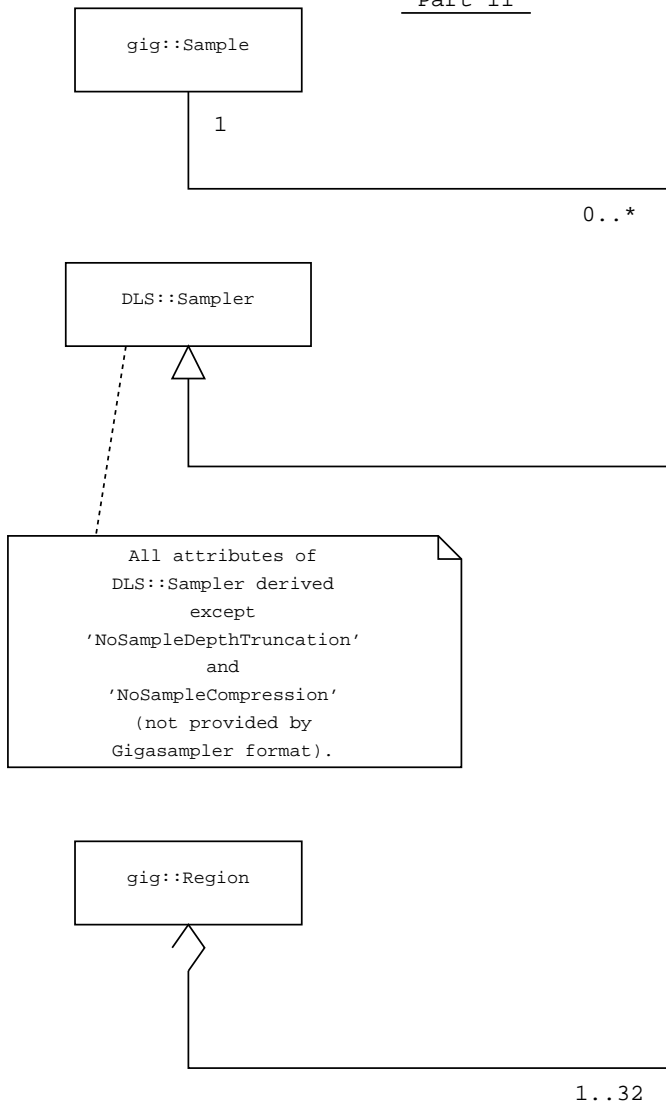
See next page

All members of subclasses derived except from DLS::Articulator, as the Gigasampler format doesn't provide 'Connections' as defined in DLS.

The Gigasampler classes are more or less just extensions of the DLS classes. So also have look at those derived DLS classes to get full overview of all available methods and class attributes the Gigasampler classes provide.

Gigasampler classes

Part II



All attributes of DLS::Sampler derived except 'NoSampleDepthTruncation' and 'NoSampleCompression' (not provided by Gigasampler format).

For full detailed descriptions of all class attributes and methods in libgig have a look at the C++ header files (gig.h, DLS.h, RIFF.h) or the API documentation.

gig::DimensionRegion	
uint8_t	VelocityUpperLimit
Sample*	pSample
uint16_t	EG1PreAttack
double	EG1Attack
double	EG1Decay1
double	EG1Decay2
bool	EG1InfiniteSustain
uint16_t	EG1Sustain
double	EG1Release
bool	EG1Hold
eg1_ctrl_t	EG1Controller
bool	EG1ControllerInvert
uint8_t	EG1ControllerAttackInfluence
uint8_t	EG1ControllerDecayInfluence
uint8_t	EG1ControllerReleaseInfluence
double	LF01Frequency
uint16_t	LF01InternalDepth
uint16_t	LF01ControlDepth
lfo1_ctrl_t	LF01Controller
bool	LF01FlipPhase
bool	LF01Sync
uint16_t	EG2PreAttack
double	EG2Attack
double	EG2Decay1
double	EG2Decay2
bool	EG2InfiniteSustain
uint16_t	EG2Sustain
double	EG2Release
eg2_ctrl_t	EG2Controller
bool	EG2ControllerInvert
uint8_t	EG2ControllerAttackInfluence
uint8_t	EG2ControllerDecayInfluence
uint8_t	EG2ControllerReleaseInfluence
double	LF02Frequency
uint16_t	LF02InternalDepth
uint16_t	LF02ControlDepth
lfo2_ctrl_t	LF02Controller
bool	LF02FlipPhase
bool	LF02Sync
double	EG3Attack
int16_t	EG3Depth
double	LF03Frequency
int16_t	LF03InternalDepth
int16_t	LF03ControlDepth
lfo3_ctrl_t	LF03Controller
bool	LF03Sync
bool	VCFEnabled
vcf_type_t	VCFType
vcf_cutoff_ctrl_t	VCFCutoffController
uint8_t	VCFCutoff
curve_type_t	VCFVelocityCurve
uint8_t	VCFVelocityScale
uint8_t	VCFVelocityDynamicRange
uint8_t	VCFResonance
bool	VCFResonanceDynamic
vcf_res_ctrl_t	VCFResonanceController
bool	VCFKeyboardTracking
uint8_t	VCFKeyboardTrackingBreakpoint
curve_type_t	VelocityResponseCurve
uint8_t	VelocityResponseDepth
uint8_t	VelocityResponseCurveScaling
curve_type_t	ReleaseVelocityResponseCurve
uint8_t	ReleaseVelocityResponseDepth
uint8_t	ReleaseTriggerDecay
crossfade_t	Crossfade
bool	PitchTrack
dim_bypass_ctrl_t	DimensionBypass
int8_t	Pan
bool	SelfMask
attenuation_ctrl_t	AttenuationControl
bool	InvertAttenuationControl
uint8_t	AttenuationControlThreshold
uint8_t	ChannelOffset
bool	SustainDefeat
bool	MSDecode
uint16_t	SampleStartOffset