# Namespace NetOpt

### Classes

# Compressor

Compress or decompress packet buffers and their packet deltas.

### DeltaCoder

Encode or decode deltas between two packet buffers.

# DllImportApi

#### **Native**

Managed to unmanaged interaction

### **PacketBuffer**

Buffer for writing and reading packet data.

### **PacketDelta**

Delta for managing differences between packet buffers.

### **PacketReader**

Read packet data from packet buffers

### **PacketWriter**

Write packet data to packet buffers

# Interfaces

### **INative**Api

Unmanaged calls supported by managed environment

### Enums

# Compressor. Algorithm

Compression algorithm to use for compression or decompression.

# DeltaCoder. Algorithm

Delta compression algorithm to use for encoding or decoding.

# Native.InteropApi

Defines how managed to unmanaged calls are executed

# **Class Compressor**

Compress or decompress packet buffers and their packet deltas.

Inheritance

System.Object

Compressor

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public static class Compressor

#### Methods

Compress(PacketBuffer, Int32, Compressor.Algorithm)

Constructs a compressed buffer from a buffer

Declaration

public static PacketBuffer Compress(PacketBuffer buffer, int bytes, Compressor.Algorithm algorithm =
Compressor.Algorithm.LZ4F)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
PacketBuffer	buffer	Buffer instance
System.Int32	bytes	Number of bytes to compress from buffer
Compressor.Algorithm	algorithm	Compression algorithm to use for compression

# Returns

ТУРЕ	DESCRIPTION	
PacketBuffer	Compressed buffer instance	

Compress(PacketDelta, Int32, Compressor.Algorithm)

Constructs a compressed delta from a delta

#### Declaration

public static PacketDelta Compress(PacketDelta delta, int bytes, Compressor.Algorithm algorithm =
Compressor.Algorithm.LZ4F)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
PacketDelta	delta	Delta instance
System.Int32	bytes	Number of bytes to compress from delta
Compressor.Algorithm	algorithm	Compression algorithm to use for compression

#### Returns

ТҮРЕ	DESCRIPTION
PacketDelta	Compressed delta instance

# Decompress(PacketBuffer, Int32, Compressor.Algorithm)

Constructs a decompressed buffer from a compressed buffer

### Declaration

public static PacketBuffer Decompress(PacketBuffer compressedBuffer, int bytes = 0, Compressor.Algorithm
algorithm = Compressor.Algorithm.LZ4F)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
PacketBuffer	compressedBuffer	Compressed buffer instance
System.Int32	bytes	Number of compressed bytes in compressed buffer
Compressor.Algorithm	algorithm	Compression algorithm used for compression

#### Returns

ТУРЕ	DESCRIPTION
PacketBuffer	Decompressed buffer instance

# Decompress(PacketDelta, Int32, Compressor.Algorithm)

Constructs a decompressed delta from a compressed delta

### Declaration

public static PacketDelta Decompress(PacketDelta delta, int bytes, Compressor.Algorithm algorithm =
Compressor.Algorithm.LZ4F)

# Parameters

ТУРЕ	NAME	DESCRIPTION
PacketDelta	delta	Compressed delta instance
System.Int32	bytes	Number of compressed bytes in compressed delta
Compressor.Algorithm	algorithm	Compression algorithm used for compression

ТҮРЕ	DESCRIPTION
PacketDelta	Decompressed delta instance

# Enum Compressor.Algorithm

Compression algorithm to use for compression or decompression.

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public enum Algorithm

# Fields

NAME	DESCRIPTION
ВСМ	BCM is a high-performance file compressor.
BROTLI11	Brotli is a generic-purpose lossless compression algorithm.
BROTLI9	Brotli is a generic-purpose lossless compression algorithm.
BSC	
BZIP2	bzip2 compresses files using block sorting text compression, generally considerably better than LZ77/LZ78-based compressors.
CRUSH	CRUSH is a simple LZ77-based file compressor that features an extremely fast decompression.
CSC20	Loss-less data compression algorithm inspired by LZMA.
LZ4	LZ4 is lossless compression algorithm, providing high compression speed.
LZ4F	LZ4 is lossless compression algorithm, providing high compression speed.
LZIP	Lzip is a lossless data compressor based on the LZMA algorithm.
LZJB	LZJB is a lossless data compression algorithm to compress crash dumps and data.
LZMA20	LZMA is an algorithm used to perform lossless data compression.
LZMA25	LZMA is an algorithm used to perform lossless data compression.

NAME	DESCRIPTION
МСМ	MCM compressor, context mixing and lzp.
MINIZ	Miniz is a lossless, high performance data compression library.
RAW	No compression.
SHOCO	Optimized for <i>very</i> short strings of english words.
SHRINKER	LZ77-based data compression program that can be used in high performance demanding environments.
TANGELO	
ZLING	Zling is an improved lightweight compression utility and library.
ZMOLLY	Zmolly is a generic data compressor with high compression ratio.
ZPAQ	ZPAQ is optimized for fast compression rather than decompression.
ZSTD	Zstandard is a real-time compression algorithm, providing high compression ratios.
ZSTDF	Zstandard is a real-time compression algorithm, providing high compression ratios.

# Class DeltaCoder

Encode or decode deltas between two packet buffers.

Inheritance

System.Object

DeltaCoder

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public static class DeltaCoder

#### Methods

Decode(PacketBuffer, PacketDelta, DeltaCoder.Algorithm)

Constructs a target buffer from a source buffer and delta.

Declaration

public static PacketBuffer Decode(PacketBuffer source, PacketDelta delta, DeltaCoder.Algorithm algorithm =
DeltaCoder.Algorithm.HDiffPatch)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
PacketBuffer	source	Transformation source
PacketDelta	delta	Delta to use for transformation
DeltaCoder.Algorithm	algorithm	Delta compression algorithm used for encoding

# Returns

ТҮРЕ	DESCRIPTION
PacketBuffer	Target buffer constructed using source buffer and delta

Encode(PacketBuffer, PacketBuffer, DeltaCoder.Algorithm)

Constructs a delta from two buffers.

### Declaration

public static PacketDelta Encode(PacketBuffer source, PacketBuffer target, DeltaCoder.Algorithm algorithm =
DeltaCoder.Algorithm.HDiffPatch)

# Parameters

ТУРЕ	NAME	DESCRIPTION
PacketBuffer	source	Transformation source
PacketBuffer	target	Transformation target
DeltaCoder.Algorithm	algorithm	Delta compression algorithm to use for encoding

ТҮРЕ	DESCRIPTION
PacketDelta	Delta instance that transforms source buffer into target buffer

# Enum DeltaCoder.Algorithm

Delta compression algorithm to use for encoding or decoding.

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public enum Algorithm

# Fields

NAME	DESCRIPTION
BsDiff	Intended for building and applying patches to binary executable files. NOTE: requires secondary compression through Compressor.
HDiffPatch	Binary data build and patch, fast with small delta/differential. NOTE: Very effective for data with low variability.

# Class DllImportApi

Inheritance

System.Object

DIIImportApi

Implements

# **INativeApi**

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt

Assembly: NetOpt.dll

Syntax

public class DllImportApi : INativeApi

### Methods

# AllocPacketDelta(IntPtr, Int32)

Declaration

public IntPtr AllocPacketDelta(IntPtr data, int bytes)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	

#### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# $Compress Packet Buffer (Int Ptr,\ Int 32,\ Compressor. Algorithm)$

Declaration

public IntPtr CompressPacketBuffer(IntPtr buffer, int bytes, Compressor.Algorithm algorithm)

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.Int32	bytes	

ТҮРЕ	NAME	DESCRIPTION
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# CompressPacketDelta(IntPtr, Int32, Compressor.Algorithm)

Declaration

public IntPtr CompressPacketDelta(IntPtr data, int bytes, Compressor.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

# Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# CopyPacketBuffer(IntPtr, IntPtr, Int32)

Declaration

public void CopyPacketBuffer(IntPtr buffer, IntPtr destination, int bytes)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.IntPtr	destination	
System.Int32	bytes	

# CopyPacketDelta(IntPtr, IntPtr, Int32)

Declaration

public void CopyPacketDelta(IntPtr delta, IntPtr destination, int bytes)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	delta	
System.IntPtr	destination	
System.Int32	bytes	

# DecompressPacketBuffer(IntPtr, Int32, Compressor.Algorithm)

Declaration

public IntPtr DecompressPacketBuffer(IntPtr buffer, int bytes, Compressor.Algorithm algorithm)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# DecompressPacketDelta(IntPtr, Int32, Compressor.Algorithm)

Declaration

public IntPtr DecompressPacketDelta(IntPtr data, int bytes, Compressor.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# DifferencerDecodeDelta(IntPtr, IntPtr, DeltaCoder.Algorithm)

Declaration

public IntPtr DifferencerDecodeDelta(IntPtr source, IntPtr delta, DeltaCoder.Algorithm algorithm)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	source	
System.IntPtr	delta	
DeltaCoder.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# $Differencer Encode Buffer (IntPtr,\ IntPtr,\ Delta Coder. Algorithm)$

Declaration

public IntPtr DifferencerEncodeBuffer(IntPtr source, IntPtr buffer, DeltaCoder.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	source	
System.IntPtr	buffer	
DeltaCoder.Algorithm	algorithm	

### Returns

ТҮР	E	DESCRIPTION
Syst	em.IntPtr	

# FreePacketDelta(IntPtr)

Declaration

public void FreePacketDelta(IntPtr delta)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	delta	

### GetPacketBufferSize(IntPtr)

Declaration

public int GetPacketBufferSize(IntPtr buffer)

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	

### Returns

ТУРЕ	DESCRIPTION
System.Int32	

### GetPacketDeltaSize(IntPtr)

Declaration

public int GetPacketDeltaSize(IntPtr delta)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	delta	

#### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# PackBool(IntPtr, Boolean)

Declaration

public void PackBool(IntPtr writeStream, bool value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Boolean	value	

# PackDouble(IntPtr, Double)

Declaration

public void PackDouble(IntPtr writeStream, double value)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Double	value	

# PackDoubleCompressed(IntPtr, Double, Double, Double, Double)

Declaration

public void PackDoubleCompressed(IntPtr writeStream, double value, double min, double max, double precision)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Double	value	
System.Double	min	
System.Double	max	
System.Double	precision	

# PackFloat(IntPtr, Single)

Declaration

public void PackFloat(IntPtr writeStream, float value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Single	value	

# PackFloatCompressed(IntPtr, Single, Single, Single, Single)

Declaration

public void PackFloatCompressed(IntPtr writeStream, float value, float min, float max, float precision)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Single	value	
System.Single	min	
System.Single	max	
System.Single	precision	

### PackInt16(IntPtr, Int16)

Declaration

public void PackInt16(IntPtr writeStream, short value)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int16	value	

# PackInt16Quantized(IntPtr, Int16, Int16, Int16)

Declaration

public void PackInt16Quantized(IntPtr writeStream, short value, short min, short max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int16	value	
System.Int16	min	
System.Int16	max	

# PackInt32(IntPtr, Int32)

Declaration

public void PackInt32(IntPtr writeStream, int value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int32	value	

# PackInt32Quantized(IntPtr, Int32, Int32, Int32)

Declaration

public void PackInt32Quantized(IntPtr writeStream, int value, int min, int max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int32	value	
System.Int32	min	
System.Int32	max	

# PackInt64(IntPtr, Int64)

#### Declaration

public void PackInt64(IntPtr writeStream, long value)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int64	value	

# PackInt64Quantized(IntPtr, Int64, Int64, Int64)

Declaration

public void PackInt64Quantized(IntPtr writeStream, long value, long min, long max)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int64	value	
System.Int64	min	
System.Int64	max	

# PackInt8(IntPtr, SByte)

Declaration

public void PackInt8(IntPtr writeStream, sbyte value)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.SByte	value	

# PackInt8Quantized(IntPtr, SByte, SByte, SByte)

Declaration

public void PackInt8Quantized(IntPtr writeStream, sbyte value, sbyte min, sbyte max)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.SByte	value	
System.SByte	min	

ТУРЕ	NAME	DESCRIPTION
System.SByte	max	

# PackUInt16(IntPtr, UInt16)

Declaration

public void PackUInt16(IntPtr writeStream, ushort value)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt16	value	

# PackUInt32(IntPtr, UInt32)

Declaration

public void PackUInt32(IntPtr writeStream, uint value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt32	value	

# PackUInt64(IntPtr, UInt64)

Declaration

public void PackUInt64(IntPtr writeStream, ulong value)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt64	value	

# PackUInt8(IntPtr, Byte)

Declaration

public void PackUInt8(IntPtr writeStream, byte value)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Byte	value	

# UnpackBool(IntPtr)

### Declaration

public bool UnpackBool(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

# UnpackDouble(IntPtr)

Declaration

public double UnpackDouble(IntPtr readStream)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

#### Returns

ТҮРЕ	DESCRIPTION
System.Double	

# UnpackDoubleCompressed(IntPtr, Double, Double, Double)

Declaration

public double UnpackDoubleCompressed(IntPtr readStream, double min, double max, double precision)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Double	min	
System.Double	max	
System.Double	precision	

ТУРЕ	DESCRIPTION
System.Double	

# UnpackFloat(IntPtr)

Declaration

public	float	UnpackFloat(IntPtr	readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Single	

# UnpackFloatCompressed(IntPtr, Single, Single, Single)

Declaration

public float UnpackFloatCompressed(IntPtr readStream, float min, float max, float precision)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Single	min	
System.Single	max	
System.Single	precision	

### Returns

ТУРЕ	DESCRIPTION
System.Single	

# UnpackInt16(IntPtr)

Declaration

public short UnpackInt16(IntPtr readStream)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТҮРЕ	DESCRIPTION
System.Int16	

# UnpackInt16Quantized(IntPtr, Int16, Int16)

### Declaration

public short UnpackInt16Quantized(IntPtr readStream, short min, short max)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int16	min	
System.Int16	max	

### Returns

ТҮРЕ	DESCRIPTION
System.Int16	

# UnpackInt32(IntPtr)

Declaration

public int UnpackInt32(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# UnpackInt32Quantized(IntPtr, Int32, Int32)

Declaration

public int UnpackInt32Quantized(IntPtr readStream, int min, int max)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int32	min	
System.Int32	max	

ТҮРЕ	DESCRIPTION
System.Int32	

# UnpackInt64(IntPtr)

Declaration

public long UnpackInt64(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Int64	

# UnpackInt64Quantized(IntPtr, Int64, Int64)

Declaration

public long UnpackInt64Quantized(IntPtr readStream, long min, long max)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int64	min	
System.Int64	max	

### Returns

ТҮРЕ	DESCRIPTION
System.Int64	

# UnpackInt8(IntPtr)

Declaration

public sbyte UnpackInt8(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТҮРЕ	DESCRIPTION
System.SByte	

# UnpackInt8Quantized(IntPtr, SByte, SByte)

Declaration

public sbyte UnpackInt8Quantized(IntPtr readStream, sbyte min, sbyte max)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.SByte	min	
System.SByte	max	

### Returns

ТҮРЕ	DESCRIPTION
System.SByte	

# UnpackUInt16(IntPtr)

Declaration

public ushort UnpackUInt16(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.UInt16	

# UnpackUInt32(IntPtr)

Declaration

public uint UnpackUInt32(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТҮРЕ	DESCRIPTION
System.UInt32	

# UnpackUInt64(IntPtr)

Declaration

public ulong UnpackUInt64(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.UInt64	

# UnpackUInt8(IntPtr)

Declaration

public byte UnpackUInt8(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

## Returns

ТҮРЕ	DESCRIPTION
System.Byte	

# **Explicit Interface Implementations**

INativeApi.AllocPacketBuffer(Int32)

Declaration

IntPtr INativeApi.AllocPacketBuffer(int bytes)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	bytes	

ТУРЕ	DESCRIPTION
System.IntPtr	

# INativeApi.AllocPacketBufferUnmanaged(IntPtr, Int32)

Declaration

IntPtr INativeApi.AllocPacketBufferUnmanaged(IntPtr buffer, int bytes)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.Int32	bytes	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# INativeApi.AllocPacketReader(IntPtr)

Declaration

IntPtr INativeApi.AllocPacketReader(IntPtr packetBuffer)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# INativeApi.AllocPacketWriter(IntPtr)

Declaration

IntPtr INativeApi.AllocPacketWriter(IntPtr packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

#### Returns

ТУРЕ	DESCRIPTION
System.IntPtr	

# INativeApi.FlushPacketWriter(IntPtr)

Declaration

int INativeApi.FlushPacketWriter(IntPtr packetWriter)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

#### Returns

ТУРЕ	DESCRIPTION
System.Int32	

# INativeApi.FreePacketBuffer(IntPtr)

Declaration

void INativeApi.FreePacketBuffer(IntPtr packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

# INativeApi.FreePacketReader(IntPtr)

Declaration

void INativeApi.FreePacketReader(IntPtr packetReader)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetReader	

# INativeApi.FreePacketWriter(IntPtr)

Declaration

void INativeApi.FreePacketWriter(IntPtr packetWriter)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

# IN a tive Api. Get Bits Processed Packet Writer (Int Ptr)

Declaration

int INativeApi.GetBitsProcessedPacketWriter(IntPtr packetWriter)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

ТҮРЕ	DESCRIPTION
System.Int32	

# IN a tive Api. Get Bytes Processed Packet Writer (Int Ptr)

### Declaration

int INativeApi.GetBytesProcessedPacketWriter(IntPtr packetWriter)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

# Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# Implements

INativeApi

# Interface INativeApi

Unmanaged calls supported by managed environment

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public interface INativeApi

### Methods

### AllocPacketBuffer(Int32)

Declaration

IntPtr AllocPacketBuffer(int bytes)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	bytes	

### Returns

ТУРЕ	DESCRIPTION
System.IntPtr	

# AllocPacketBufferUnmanaged(IntPtr, Int32)

Declaration

IntPtr AllocPacketBufferUnmanaged(IntPtr buffer, int bytes)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.Int32	bytes	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# AllocPacketDelta(IntPtr, Int32)

Declaration

IntPtr AllocPacketDelta(IntPtr data, int bytes)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	

#### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# AllocPacketReader(IntPtr)

Declaration

IntPtr AllocPacketReader(IntPtr packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

### Returns

ТУРЕ	DESCRIPTION
System.IntPtr	

# AllocPacketWriter(IntPtr)

Declaration

IntPtr AllocPacketWriter(IntPtr packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

### Returns

1	ГҮРЕ	DESCRIPTION
9	System.IntPtr	

# CompressPacketBuffer(IntPtr, Int32, Compressor.Algorithm)

Declaration

IntPtr CompressPacketBuffer(IntPtr buffer, int bytes, Compressor.Algorithm algorithm)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	

ТҮРЕ	NAME	DESCRIPTION
System.Int32	bytes	
Compressor.Algorithm	algorithm	

#### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# $Compress Packet Delta (Int Ptr,\ Int 32,\ Compressor. Algorithm)$

Declaration

IntPtr CompressPacketDelta(IntPtr data, int bytes, Compressor.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# CopyPacketBuffer(IntPtr, IntPtr, Int32)

Declaration

void CopyPacketBuffer(IntPtr buffer, IntPtr destination, int bytes)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.IntPtr	destination	
System.Int32	bytes	

# CopyPacketDelta(IntPtr, IntPtr, Int32)

Declaration

void CopyPacketDelta(IntPtr delta, IntPtr destination, int bytes)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	delta	
System.IntPtr	destination	
System.Int32	bytes	

# DecompressPacketBuffer(IntPtr, Int32, Compressor.Algorithm)

Declaration

IntPtr DecompressPacketBuffer(IntPtr buffer, int bytes, Compressor.Algorithm algorithm)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# DecompressPacketDelta(IntPtr, Int32, Compressor.Algorithm)

Declaration

IntPtr DecompressPacketDelta(IntPtr data, int bytes, Compressor.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	data	
System.Int32	bytes	
Compressor.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# DifferencerDecodeDelta(IntPtr, IntPtr, DeltaCoder.Algorithm)

Declaration

IntPtr DifferencerDecodeDelta(IntPtr source, IntPtr delta, DeltaCoder.Algorithm algorithm)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	source	
System.IntPtr	delta	
DeltaCoder.Algorithm	algorithm	

### Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# $Differencer Encode Buffer (IntPtr,\ IntPtr,\ Delta Coder. Algorithm)$

Declaration

IntPtr DifferencerEncodeBuffer(IntPtr source, IntPtr target, DeltaCoder.Algorithm algorithm)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	source	
System.IntPtr	target	
DeltaCoder.Algorithm	algorithm	

# Returns

ТҮРЕ	DESCRIPTION
System.IntPtr	

# FlushPacketWriter(IntPtr)

Declaration

int FlushPacketWriter(IntPtr packetWriter)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# FreePacketBuffer(IntPtr)

Declaration

### void FreePacketBuffer(IntPtr packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetBuffer	

### FreePacketDelta(IntPtr)

Declaration

void FreePacketDelta(IntPtr delta)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	delta	

### FreePacketReader(IntPtr)

Declaration

void FreePacketReader(IntPtr packetReader)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetReader	

# FreePacketWriter(IntPtr)

Declaration

void FreePacketWriter(IntPtr packetWriter)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

### GetBitsProcessedPacketWriter(IntPtr)

Declaration

int GetBitsProcessedPacketWriter(IntPtr packetWriter)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

ТҮРЕ	DESCRIPTION
System.Int32	

# GetBytesProcessedPacketWriter(IntPtr)

Declaration

int GetBytesProcessedPacketWriter(IntPtr packetWriter)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	packetWriter	

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# GetPacketBufferSize(IntPtr)

Declaration

int GetPacketBufferSize(IntPtr buffer)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	buffer	

## Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# GetPacketDeltaSize(IntPtr)

Declaration

int GetPacketDeltaSize(IntPtr delta)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	delta	

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# PackBool(IntPtr, Boolean)

#### Declaration

void PackBool(IntPtr writeStream, bool value)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Boolean	value	

# PackDouble(IntPtr, Double)

Declaration

void PackDouble(IntPtr writeStream, double value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Double	value	

# PackDoubleCompressed(IntPtr, Double, Double, Double, Double)

Declaration

void PackDoubleCompressed(IntPtr writeStream, double value, double min, double max, double precision)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Double	value	
System.Double	min	
System.Double	max	
System.Double	precision	

# PackFloat(IntPtr, Single)

Declaration

void PackFloat(IntPtr writeStream, float value)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Single	value	

# PackFloatCompressed(IntPtr, Single, Single, Single, Single)

Declaration

void PackFloatCompressed(IntPtr writeStream, float value, float min, float max, float precision)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Single	value	
System.Single	min	
System.Single	max	
System.Single	precision	

# PackInt16(IntPtr, Int16)

Declaration

void PackInt16(IntPtr writeStream, short value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int16	value	

# PackInt16Quantized(IntPtr, Int16, Int16, Int16)

Declaration

void PackInt16Quantized(IntPtr writeStream, short value, short min, short max)

# Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int16	value	
System.Int16	min	
System.Int16	max	

# PackInt32(IntPtr, Int32)

Declaration

void PackInt32(IntPtr writeStream, int value)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int32	value	

# PackInt32Quantized(IntPtr, Int32, Int32, Int32)

Declaration

void PackInt32Quantized(IntPtr writeStream, int value, int min, int max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int32	value	
System.Int32	min	
System.Int32	max	

# PackInt64(IntPtr, Int64)

Declaration

void PackInt64(IntPtr writeStream, long value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int64	value	

### PackInt64Quantized(IntPtr, Int64, Int64, Int64)

Declaration

void PackInt64Quantized(IntPtr writeStream, long value, long min, long max)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Int64	value	
System.Int64	min	
System.Int64	max	

# PackInt8(IntPtr, SByte)

#### Declaration

void PackInt8(IntPtr writeStream, sbyte value)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.SByte	value	

# PackInt8Quantized(IntPtr, SByte, SByte, SByte)

Declaration

void PackInt8Quantized(IntPtr writeStream, sbyte value, sbyte min, sbyte max)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.SByte	value	
System.SByte	min	
System.SByte	max	

# PackUInt16(IntPtr, UInt16)

Declaration

void PackUInt16(IntPtr writeStream, ushort value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt16	value	

### PackUInt32(IntPtr, UInt32)

Declaration

void PackUInt32(IntPtr writeStream, uint value)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt32	value	

### PackUInt64(IntPtr, UInt64)

#### Declaration

void PackUInt64(IntPtr writeStream, ulong value)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.UInt64	value	

# PackUInt8(IntPtr, Byte)

Declaration

void PackUInt8(IntPtr writeStream, byte value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	writeStream	
System.Byte	value	

# UnpackBool(IntPtr)

Declaration

bool UnpackBool(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Boolean	

# UnpackDouble(IntPtr)

Declaration

double UnpackDouble(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТҮРЕ	DESCRIPTION
System.Double	

# UnpackDoubleCompressed(IntPtr, Double, Double, Double)

#### Declaration

double UnpackDoubleCompressed(IntPtr readStream, double min, double max, double precision)

#### Parameters

TYPE	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Double	min	
System.Double	max	
System.Double	precision	

#### Returns

ТҮРЕ	DESCRIPTION
System.Double	

### UnpackFloat(IntPtr)

Declaration

float UnpackFloat(IntPtr readStream)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

#### Returns

ТҮРЕ	DESCRIPTION
System.Single	

# UnpackFloatCompressed(IntPtr, Single, Single, Single)

Declaration

float UnpackFloatCompressed(IntPtr readStream, float min, float max, float precision)

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТҮРЕ	NAME	DESCRIPTION
System.Single	min	
System.Single	max	
System.Single	precision	

ТҮРЕ	DESCRIPTION
System.Single	

# UnpackInt16(IntPtr)

Declaration

short UnpackInt16(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.Int16	

# UnpackInt16Quantized(IntPtr, Int16, Int16)

Declaration

short UnpackInt16Quantized(IntPtr readStream, short min, short max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int16	min	
System.Int16	max	

### Returns

ТУРЕ	DESCRIPTION
System.Int16	

# UnpackInt32(IntPtr)

Declaration

int UnpackInt32(IntPtr readStream)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

#### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# UnpackInt32Quantized(IntPtr, Int32, Int32)

Declaration

int UnpackInt32Quantized(IntPtr readStream, int min, int max)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int32	min	
System.Int32	max	

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	

# UnpackInt64(IntPtr)

Declaration

long UnpackInt64(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

#### Returns

ТҮРЕ	DESCRIPTION
System.Int64	

# UnpackInt64Quantized(IntPtr, Int64, Int64)

Declaration

long UnpackInt64Quantized(IntPtr readStream, long min, long max)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.Int64	min	
System.Int64	max	

ТҮРЕ	DESCRIPTION
System.Int64	

# UnpackInt8(IntPtr)

Declaration

sbyte UnpackInt8(IntPtr readStream)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

#### Returns

ТҮРЕ	DESCRIPTION
System.SByte	

# UnpackInt8Quantized(IntPtr, SByte, SByte)

Declaration

sbyte UnpackInt8Quantized(IntPtr readStream, sbyte min, sbyte max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	
System.SByte	min	
System.SByte	max	

### Returns

ТҮРЕ	DESCRIPTION
System.SByte	

# UnpackUInt16(IntPtr)

Declaration

ushort UnpackUInt16(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.UInt16	

# UnpackUInt32(IntPtr)

Declaration

uint UnpackUInt32(IntPtr readStream)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

### Returns

ТҮРЕ	DESCRIPTION
System.UInt32	

# UnpackUInt64(IntPtr)

Declaration

ulong UnpackUInt64(IntPtr readStream)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

# Returns

ТҮРЕ	DESCRIPTION
System.UInt64	

# UnpackUInt8(IntPtr)

Declaration

byte UnpackUInt8(IntPtr readStream)

ТҮРЕ	NAME	DESCRIPTION
System.IntPtr	readStream	

ТУРЕ	DESCRIPTION
System.Byte	

# Class Native

Managed to unmanaged interaction

Inheritance

System.Object

Native

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

```
public static class Native
```

### **Properties**

#### Instance

Current managed to unmanaged instance

Declaration

```
public static INativeApi Instance { get; }
```

Property Value

ТҮРЕ	DESCRIPTION
INativeApi	

### Interop

Current managed to unmanaged interop strategy

Declaration

```
public static Native.InteropApi Interop { get; }
```

Property Value

Т	ТУРЕ	DESCRIPTION
N	Native.InteropApi	

# Enum Native.InteropApi

Defines how managed to unmanaged calls are executed

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public enum InteropApi

# Fields

NAME	DESCRIPTION
Calli	Experimental faster interop
DllImport	Standard widely supported interop

# Class PacketBuffer

Buffer for writing and reading packet data.

Inheritance

System.Object

PacketBuffer

Implements

System.IDisposable

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public class PacketBuffer : IDisposable

#### Constructors

# PacketBuffer(Byte[], Boolean)

Constructs a buffer based on contents of existing byte[].

Declaration

public PacketBuffer(byte[] bufferData, bool clone = false)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Byte[]	bufferData	Data to fill the buffer with.
System.Boolean	clone	Whether or not to clone the buffer data. Clone is useful if buffer data may be modified externally (outside of this instance).

### ${\sf Exceptions}$

ТУРЕ	CONDITION
System.ArgumentNullException	bufferData may not be null.

### PacketBuffer(Int32)

Allocates a new buffer.

Declaration

### public PacketBuffer(int size)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	size	Number of bytes to allocate.

### **Properties**

### Length

Length of the buffer in bytes.

Declaration

```
public int Length { get; }
```

### Property Value

ТҮРЕ	DESCRIPTION
System.Int32	

### NativeHandle

Pointer to native object.

Declaration

```
public IntPtr NativeHandle { get; }
```

### Property Value

ТҮРЕ	DESCRIPTION
System.IntPtr	

### Methods

# Dispose()

Disposes this instance and releases all unmanaged resources.

Declaration

```
public void Dispose()
```

### Finalize()

Declaration

```
protected void Finalize()
```

# GetBytes(Boolean)

Retrieves the underlying buffer data as byte[].

Declaration

```
public byte[] GetBytes(bool clone = false)
```

### Parameters

ТҮРЕ	NAME	DESCRIPTION		
System.Boolean	clone	Whether or not to clone the buffer data. Clone is useful if buffer data may be modified externally (outside of this instance).		

# Returns

ТУРЕ	DESCRIPTION
System.Byte[]	Underlying buffer data

# Implements

System.IDisposable

# Class PacketDelta

Delta for managing differences between packet buffers.

Inheritance

System.Object

PacketDelta

Implements

System.IDisposable

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public class PacketDelta : IDisposable

#### Constructors

PacketDelta(Byte[], Boolean)

Constructs a delta based on contents of existing byte[].

Declaration

public PacketDelta(byte[] deltaData, bool clone = false)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Byte[]	deltaData	Data to construct the delta with.
System.Boolean	clone	Whether or not to clone the delta data. Clone is useful if delta data may be modified externally (outside of this instance).

### ${\sf Exceptions}$

ТҮРЕ	CONDITION
System.ArgumentNullException	deltaData may not be null.

### **Properties**

### Length

Length of the delta in bytes.

#### Declaration

public	int	Length	{	get:	}
PUDITE	THE	LCIISCII	ι	500	J

# Property Value

ТУРЕ	DESCRIPTION
System.Int32	

### NativeHandle

Pointer to native object.

Declaration

```
public IntPtr NativeHandle { get; }
```

### Property Value

ТҮРЕ	DESCRIPTION
System.IntPtr	

### Methods

### Dispose()

Disposes this instance and releases all unmanaged resources.

Declaration

```
public void Dispose()
```

### Finalize()

Declaration

```
protected void Finalize()
```

# GetBytes(Boolean)

Retrieves the underlying delta data as byte[].

Declaration

```
public byte[] GetBytes(bool clone = false)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	clone	Whether or not to clone the delta data. Clone is useful if delta data may be modified externally (outside of this instance).

ТУРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
System.Byte[]	Underlying delta data

# Implements

System.IDisposable

# Class PacketReader

Read packet data from packet buffers

Inheritance

System.Object

PacketReader

Implements

System.IDisposable

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public class PacketReader : IDisposable

#### Constructors

### PacketReader(PacketBuffer)

Allocates a new reader.

Declaration

public PacketReader(PacketBuffer packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
PacketBuffer	packetBuffer	Buffer to read from.

### Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	packetBuffer may not be null.

### **Properties**

### NativeHandle

Pointer to native object.

Declaration

```
public IntPtr NativeHandle { get; }
```

### Property Value

ТҮРЕ	DESCRIPTION
System.IntPtr	

### Methods

# Dispose()

Disposes this instance and releases all unmanaged resources.

Declaration

public void Dispose()

# Finalize()

Declaration

protected void Finalize()

# Unpack(out Boolean)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out bool destination)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Boolean	destination	Next packed value.

### Returns

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Byte)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out byte destination)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Byte	destination	Next packed value.

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Char)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out char destination)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Char	destination	Next packed value.

#### Returns

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Double)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out double destination)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Double	destination	Next packed value.

### Returns

TY	YPE	DESCRIPTION
Pa	acketReader	This instance.

# Unpack(out Double, Double, Double, Double)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out double destination, double min, double max, double precision)

ТҮРЕ	NAME	DESCRIPTION
System.Double	destination	Next packed value.
System.Double	min	Lower bound of packed value.
System.Double	max	Upper bound of packed value.
System.Double	precision	Precision of packed value in decimal form.

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Int16)

Unpacks next packed value from buffer.

### Declaration

public PacketReader Unpack(out short destination)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int16	destination	Next packed value.

### Returns

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Int16, Int16, Int16)

Unpacks next packed value from buffer.

### Declaration

public PacketReader Unpack(out short destination, short min, short max)

ТҮРЕ	NAME	DESCRIPTION

ТҮРЕ	NAME	DESCRIPTION
System.Int16	destination	Next packed value.
System.Int16	min	Lower bound of packed value.
System.Int16	max	Upper bound of packed value.

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Int32)

Unpacks next packed value from buffer.

### Declaration

public PacketReader Unpack(out int destination)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int32	destination	Next packed value.

### Returns

TYF	PE	DESCRIPTION
Pac	cketReader	This instance.

# Unpack(out Int32, Int32, Int32)

Unpacks next packed value from buffer.

### Declaration

public PacketReader Unpack(out int destination, int min, int max)

ТҮРЕ	NAME	DESCRIPTION
System.Int32	destination	Next packed value.

ТҮРЕ	NAME	DESCRIPTION
System.Int32	min	Lower bound of packed value.
System.Int32	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Int64)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out long destination)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int64	destination	Next packed value.

### Returns

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Int64, Int64, Int64)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out long destination, long min, long max)

ТҮРЕ	NAME	DESCRIPTION
System.Int64	destination	Next packed value.
System.Int64	min	Lower bound of packed value.
system.mto4	11101	Lower bound of packed value.

ТҮРЕ	NAME	DESCRIPTION
System.Int64	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out SByte)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out sbyte destination)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.SByte	destination	Next packed value.

#### Returns

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out SByte, SByte, SByte)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out sbyte destination, sbyte min, sbyte max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.SByte	destination	Next packed value.
System.SByte	min	Lower bound of packed value.
System.SByte	max	Upper bound of packed value.

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Single)

Unpacks next packed value from buffer.

### Declaration

public PacketReader Unpack(out float destination)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Single	destination	Next packed value.

### Returns

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out Single, Single, Single, Single)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out float destination, float min, float max, float precision)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Single	destination	Next packed value.
System.Single	min	Lower bound of packed value.
System.Single	max	Upper bound of packed value.
System.Single	precision	Precision of packed value in decimal form.

ТҮРЕ	DESCRIPTION

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out UInt16)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out ushort destination)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt16	destination	Next packed value.

### Returns

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out UInt32)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out uint destination)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	destination	Next packed value.

### Returns

ТУРЕ	DESCRIPTION
PacketReader	This instance.

# Unpack(out UInt64)

Unpacks next packed value from buffer.

Declaration

public PacketReader Unpack(out ulong destination)

ТҮРЕ	NAME	DESCRIPTION
System.UInt64	destination	Next packed value.

ТҮРЕ	DESCRIPTION
PacketReader	This instance.

# UnpackBool()

Unpacks next packed value from buffer.

Declaration

public bool UnpackBool()

### Returns

ТҮРЕ	DESCRIPTION
System.Boolean	Next packed value.

# UnpackByte()

Unpacks next packed value from buffer.

Declaration

public byte UnpackByte()

### Returns

ТУРЕ	DESCRIPTION
System.Byte	Next packed value.

# UnpackChar()

Unpacks next packed value from buffer.

Declaration

public char UnpackChar()

### Returns

ТҮРЕ	DESCRIPTION
System.Char	Next packed value.

# UnpackDouble()

Unpacks next packed value from buffer.

#### Declaration

public double UnpackDouble()

#### Returns

ТУРЕ	DESCRIPTION
System.Double	Next packed value.

# UnpackDouble(Double, Double, Double)

Unpacks next packed value from buffer.

Declaration

public double UnpackDouble(double min, double max, double precision)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Double	min	Lower bound of packed value.
System.Double	max	Upper bound of packed value.
System.Double	precision	Precision of packed value in decimal form.

### Returns

ТУРЕ	DESCRIPTION
System.Double	Next packed value.

# UnpackFloat()

Unpacks next packed value from buffer.

Declaration

public float UnpackFloat()

### Returns

ТУРЕ	DESCRIPTION
System.Single	Next packed value.

UnpackFloat(Single, Single, Single)

Unpacks next packed value from buffer.

### Declaration

public float UnpackFloat(float min, float max, float precision)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Single	min	Lower bound of packed value.
System.Single	max	Upper bound of packed value.
System.Single	precision	Precision of packed value in decimal form.

#### Returns

ТУРЕ	DESCRIPTION
System.Single	Next packed value.

# UnpackInt()

Unpacks next packed value from buffer.

Declaration

public int UnpackInt()

### Returns

ТҮРЕ	DESCRIPTION
System.Int32	Next packed value.

# UnpackInt(Int32, Int32)

Unpacks next packed value from buffer.

Declaration

public int UnpackInt(int min, int max)

ТУРЕ	NAME	DESCRIPTION
System.Int32	min	Lower bound of packed value.

ТУРЕ	NAME	DESCRIPTION
System.Int32	max	Upper bound of packed value.

ТҮРЕ	DESCRIPTION
System.Int32	Next packed value.

# UnpackLong()

Unpacks next packed value from buffer.

Declaration

public long UnpackLong()

### Returns

ТУРЕ	DESCRIPTION
System.Int64	Next packed value.

# UnpackLong(Int64, Int64)

Unpacks next packed value from buffer.

Declaration

public long UnpackLong(long min, long max)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int64	min	Lower bound of packed value.
System.Int64	max	Upper bound of packed value.

#### Returns

ТҮРЕ	DESCRIPTION
System.Int64	Next packed value.

# UnpackSByte()

Unpacks next packed value from buffer.

Declaration

### public sbyte UnpackSByte()

#### Returns

ТҮРЕ	DESCRIPTION
System.SByte	Next packed value.

# UnpackSByte(SByte, SByte)

Unpacks next packed value from buffer.

Declaration

public sbyte UnpackSByte(sbyte min, sbyte max)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.SByte	min	Lower bound of packed value.
System.SByte	max	Upper bound of packed value.

#### Returns

ТҮРЕ	DESCRIPTION
System.SByte	Next packed value.

# UnpackShort()

Unpacks next packed value from buffer.

Declaration

public short UnpackShort()

### Returns

ТУРЕ	DESCRIPTION
System.Int16	Next packed value.

# UnpackShort(Int16, Int16)

Unpacks next packed value from buffer.

Declaration

public short UnpackShort(short min, short max)

ТҮРЕ	NAME	DESCRIPTION
System.Int16	min	Lower bound of packed value.
System.Int16	max	Upper bound of packed value.

ТҮРЕ	DESCRIPTION
System.Int16	Next packed value.

# UnpackUInt()

Unpacks next packed value from buffer.

Declaration

public uint UnpackUInt()

#### Returns

ТҮРЕ	DESCRIPTION
System.UInt32	Next packed value.

# UnpackULong()

Unpacks next packed value from buffer.

Declaration

public ulong UnpackULong()

# Returns

ТУРЕ	DESCRIPTION
System.UInt64	Next packed value.

# UnpackUShort()

Unpacks next packed value from buffer.

Declaration

public ushort UnpackUShort()

ТҮРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
System.UInt16	Next packed value.

# Implements

System.IDisposable

# Class PacketWriter

Write packet data to packet buffers

Inheritance

System.Object

**PacketWriter** 

Implements

System.IDisposable

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: NetOpt
Assembly: NetOpt.dll

Syntax

public class PacketWriter : IDisposable

#### Constructors

### PacketWriter(PacketBuffer)

Allocates a new writer.

Declaration

public PacketWriter(PacketBuffer packetBuffer)

### Parameters

ТҮРЕ	NAME	DESCRIPTION
PacketBuffer	packetBuffer	Buffer to write into.

### Exceptions

ТҮРЕ	CONDITION
System.ArgumentNullException	packetBuffer may not be null.

### **Properties**

### NativeHandle

Pointer to native object.

Declaration

```
public IntPtr NativeHandle { get; }
```

### Property Value

ТҮРЕ	DESCRIPTION
System.IntPtr	

### Methods

# Dispose()

Disposes this instance and releases all unmanaged resources.

Declaration

```
public void Dispose()
```

### Finalize()

Declaration

```
protected void Finalize()
```

### FlushFinalize()

Flushes the remaining writer bits and finalizes buffer. NOTE: No subsequent pack calls may be made after this point.

Declaration

```
public int FlushFinalize()
```

#### Returns

ТУРЕ	DESCRIPTION
System.Int32	Number of bytes written into buffer

### Pack(Boolean)

Packs value into buffer.

Declaration

```
public PacketWriter Pack(bool value)
```

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Boolean	value	Value to pack.

### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Byte)

Packs value into buffer.

Declaration

public PacketWriter Pack(byte value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Byte	value	Value to pack.

#### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Char)

Packs value into buffer.

Declaration

public PacketWriter Pack(char value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Char	value	Value to pack.

### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Double)

Packs value into buffer.

Declaration

public PacketWriter Pack(double value)

### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Double	value	Value to pack.

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Double, Double, Double)

Packs value into buffer.

Declaration

public PacketWriter Pack(double value, double min, double max, double precision)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Double	value	Value to pack.
System.Double	min	Lower bound of packed value.
System.Double	max	Upper bound of packed value.
System.Double	precision	Precision of packed value in decimal form.

## Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Int16)

Packs value into buffer.

Declaration

public PacketWriter Pack(short value)

# Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int16	value	Value to pack.

#### Returns

ТУРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Int16, Int16, Int16)

Packs value into buffer.

Declaration

public PacketWriter Pack(short value, short min, short max)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int16	value	Value to pack.
System.Int16	min	Lower bound of packed value.
System.Int16	max	Upper bound of packed value.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Int32)

Packs value into buffer.

Declaration

public PacketWriter Pack(int value)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	value	Value to pack.

## Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

Pack(Int32, Int32, Int32)

Packs value into buffer.

## Declaration

public PacketWriter Pack(int value, int min, int max)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	value	Value to pack.
System.Int32	min	Lower bound of packed value.
System.Int32	max	Upper bound of packed value.

#### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

## Pack(Int64)

Packs value into buffer.

Declaration

public PacketWriter Pack(long value)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int64	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Int64, Int64, Int64)

Packs value into buffer.

Declaration

public PacketWriter Pack(long value, long min, long max)

ТҮРЕ	NAME	DESCRIPTION
System.Int64	value	Value to pack.
System.Int64	min	Lower bound of packed value.
System.Int64	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(SByte)

Packs value into buffer.

Declaration

public PacketWriter Pack(sbyte value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.SByte	value	Value to pack.

#### Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(SByte, SByte, SByte)

Packs value into buffer.

Declaration

public PacketWriter Pack(sbyte value, sbyte min, sbyte max)

ТУРЕ	NAME	DESCRIPTION
System.SByte	value	Value to pack.

ТҮРЕ	NAME	DESCRIPTION
System.SByte	min	Lower bound of packed value.
System.SByte	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Single)

Packs value into buffer.

Declaration

public PacketWriter Pack(float value)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Single	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(Single, Single, Single, Single)

Packs value into buffer.

Declaration

public PacketWriter Pack(float value, float min, float max, float precision)

ТҮРЕ	NAME	DESCRIPTION
System.Single	value	Value to pack.
System.Single	min	Lower bound of packed value.

ТҮРЕ	NAME	DESCRIPTION
System.Single	max	Upper bound of packed value.
System.Single	precision	Precision of packed value in decimal form.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(UInt16)

Packs value into buffer.

Declaration

public PacketWriter Pack(ushort value)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.UInt16	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(UInt32)

Packs value into buffer.

Declaration

public PacketWriter Pack(uint value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	value	Value to pack.

## Returns

ТҮРЕ	DESCRIPTION

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# Pack(UInt64)

Packs value into buffer.

Declaration

public PacketWriter Pack(ulong value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt64	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

## PackBool(Boolean)

Packs value into buffer.

Declaration

public PacketWriter PackBool(bool value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Boolean	value	Value to pack.

## Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# PackByte(Byte)

Packs value into buffer.

Declaration

public PacketWriter PackByte(byte value)

ТҮРЕ	NAME	DESCRIPTION
System.Byte	value	Value to pack.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

## PackChar(Char)

Packs value into buffer.

Declaration

public PacketWriter PackChar(char value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Char	value	Value to pack.

#### Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# PackDouble(Double)

Packs value into buffer.

Declaration

public PacketWriter PackDouble(double value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Double	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

PackDouble(Double, Double, Double, Double)

Packs value into buffer.

## Declaration

public PacketWriter PackDouble(double value, double min, double max, double precision)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Double	value	Value to pack.
System.Double	min	Lower bound of packed value.
System.Double	max	Upper bound of packed value.
System.Double	precision	Precision of packed value in decimal form.

#### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackFloat(Single)

Packs value into buffer.

Declaration

public PacketWriter PackFloat(float value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Single	value	Value to pack.

## Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

PackFloat(Single, Single, Single, Single)

Packs value into buffer.

Declaration

## public PacketWriter PackFloat(float value, float min, float max, float precision)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.Single	value	Value to pack.
System.Single	min	Lower bound of packed value.
System.Single	max	Upper bound of packed value.
System.Single	precision	Precision of packed value in decimal form.

#### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackInt(Int32)

Packs value into buffer.

Declaration

public PacketWriter PackInt(int value)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int32	value	Value to pack.

## Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

PackInt(Int32, Int32, Int32)

Packs value into buffer.

Declaration

public PacketWriter PackInt(int value, int min, int max)

ТҮРЕ	NAME	DESCRIPTION
System.Int32	value	Value to pack.
System.Int32	min	Lower bound of packed value.
System.Int32	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackLong(Int64)

Packs value into buffer.

Declaration

public PacketWriter PackLong(long value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int64	value	Value to pack.

#### Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# PackLong(Int64, Int64, Int64)

Packs value into buffer.

Declaration

public PacketWriter PackLong(long value, long min, long max)

ТҮРЕ	NAME	DESCRIPTION
System.Int64	value	Value to pack.

ТУРЕ	NAME	DESCRIPTION
System.Int64	min	Lower bound of packed value.
System.Int64	max	Upper bound of packed value.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackSByte(SByte)

Packs value into buffer.

Declaration

public PacketWriter PackSByte(sbyte value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.SByte	value	Value to pack.

## Returns

1	ГҮРЕ	DESCRIPTION
F	PacketWriter	This instance.

# PackSByte(SByte, SByte, SByte)

Packs value into buffer.

Declaration

public PacketWriter PackSByte(sbyte value, sbyte min, sbyte max)

ТУРЕ	NAME	DESCRIPTION
System.SByte	value	Value to pack.
System.SByte	min	Lower bound of packed value.

ТҮРЕ	NAME	DESCRIPTION
System.SByte	max	Upper bound of packed value.

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

## PackShort(Int16)

Packs value into buffer.

Declaration

public PacketWriter PackShort(short value)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Int16	value	Value to pack.

## Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

# PackShort(Int16, Int16, Int16)

Packs value into buffer.

Declaration

public PacketWriter PackShort(short value, short min, short max)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Int16	value	Value to pack.
System.Int16	min	Lower bound of packed value.
System.Int16	max	Upper bound of packed value.

Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackUInt(UInt32)

Packs value into buffer.

Declaration

public PacketWriter PackUInt(uint value)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt32	value	Value to pack.

#### Returns

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# PackULong(UInt64)

Packs value into buffer.

Declaration

public PacketWriter PackULong(ulong value)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.UInt64	value	Value to pack.

#### Returns

ТҮРЕ	DESCRIPTION
PacketWriter	This instance.

## PackUShort(UInt16)

Packs value into buffer.

Declaration

public PacketWriter PackUShort(ushort value)

ТҮРЕ	NAME	DESCRIPTION
System.UInt16	value	Value to pack.

ТУРЕ	DESCRIPTION
PacketWriter	This instance.

# ProcessedBits()

Retrieves the number of bits written into buffer

Declaration

public int ProcessedBits()

## Returns

ТУРЕ	DESCRIPTION
System.Int32	Number of bits written into buffer

# ProcessedBytes()

Retrieves the number of bytes written into buffer

Declaration

public int ProcessedBytes()

## Returns

ТУРЕ	DESCRIPTION
System.Int32	Number of bytes written into buffer

# Implements

System.IDisposable