libemf

1.0.9

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1 Hierarchical Index

1.1 Class Hierarchy

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

2 Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

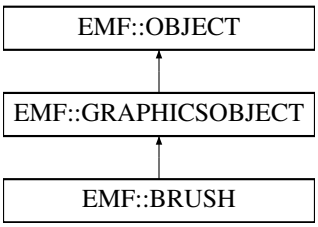
3 Data Structure Documentation

3.1 EMF::BRUSH Class Reference

Graphics Brush.

`#include <libemf.h>`

Inheritance diagram for EMF::BRUSH:



Public Member Functions

- BRUSH (const LOGBRUSH *lbrush)
- OBJECTTYPE getType (void) const
- METARECORD * newEMR (HDC dc, HGDIOBJ emf_handle)

Additional Inherited Members

3.1.1 Detailed Description

Graphics Brush.

Brushes are used for filling shapes.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 BRUSH() `EMF::BRUSH::BRUSH (`

`const LOGBRUSH * lbrush ) [inline]`

Parameters

lbrush	the (logical?) brush definition.

3.1.3 Member Function Documentation

3.1.3.1 getType() `OBJECTTYPE EMF::BRUSH::getType ( void ) const [inline], [virtual]`

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.1.3.2 newEMR() `METARECORD* EMF::BRUSH::newEMR ( HDC dc, HGDIOBJ emf_handle ) [inline], [virtual]`

Return a new metarecord for this object. And record its selection into the given device context.

Parameters

dc	handle of device context into which this object is being selected.
emf_handle	the EMF handle associated with the BRUSH.

Implements EMF::GRAPHICSOBJECT.

References EMF::GRAPHICSOBJECT::contexts.

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

- libemf.h

3.2 EMF::BYTEARRAY Struct Reference

Represent a byte array in a simple way.

`#include <libemf.h>`

Public Member Functions

- BYTEARRAY (BYTE *const array, const int n)

Data Fields

- BYTE ∗const array_

  Array of unsigned bytes.
- const int n_

  Number of bytes in array.

3.2.1 Detailed Description

Represent a byte array in a simple way.

Evidently, an unsigned array of bytes with no particular encoding implied.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 BYTEARRAY() `EMF::BYTEARRAY::BYTEARRAY ( BYTE *const array, const int n ) [inline]`

Simple constructor.

Parameters

array	pointer to array of bytes
n	number of bytes in array

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

- libemf.h

3.3 EMF::CHARSTR Struct Reference

Represent an ASCII character string in a simple way.

`#include <libemf.h>`

Public Member Functions

- CHARSTR (CHAR ∗const string, const int length)

Data Fields

- CHAR ∗const string_

  Array of single byte characters.
- const int length_

  Number of single byte characters in array.

3.3.1 Detailed Description

Represent an ASCII character string in a simple way.

ASCII strings don't have to be byte swapped, but this structure allows us to provide a uniform stream-like interface for writing out all the components of metafiles.

3.3.2 Constructor & Destructor Documentation

3.3.2.1 CHARSTR()

```
EMF::CHARSTR::CHARSTR (
        CHAR *const string,
        const int length )  [inline]
```

Simple constructor.

Parameters

string	pointer to array of single byte characters.
length	number of bytes in array.

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

- libemf.h

3.4 EMF::DATASTREAM Class Reference

Support different endian modes when reading and writing the metafile.

```
#include <libemf.h>
```

Public Member Functions

- DATASTREAM (::FILE *fp=0)
- void setStream (::FILE *fp)
- DATASTREAM & operator<< (const BYTE &byte)
- DATASTREAM & operator>> (BYTE &byte)
- DATASTREAM & operator<< (const WORD &word)
- DATASTREAM & operator>> (WORD &word)
- DATASTREAM & operator<< (const INT16 &word)
- DATASTREAM & operator>> (INT16 &word)
- DATASTREAM & operator<< (const DWORD &dword)
- DATASTREAM & operator>> (DWORD &dword)
- DATASTREAM & operator<< (const LONG &long_)
- DATASTREAM & operator>> (LONG &long_)
- DATASTREAM & operator<< (const INT &int_)
- DATASTREAM & operator>> (INT &int_)

- DATASTREAM & operator<< (const UINT &uint)
- DATASTREAM & operator>> (UINT &uint)
- DATASTREAM & operator<< (const FLOAT &float_)
- DATASTREAM & operator>> (FLOAT &float_)
- DATASTREAM & operator<< (const PADDING &padding)
- DATASTREAM & operator<< (const RECTL &rectl)
- DATASTREAM & operator>> (RECTL &rectl)
- DATASTREAM & operator<< (const SIZEL &sizel)
- DATASTREAM & operator>> (SIZEL &sizel)
- DATASTREAM & operator<< (const WCHARSTR &wcharstr)
- DATASTREAM & operator>> (WCHARSTR &wcharstr)
- DATASTREAM & operator<< (const CHARSTR &charstr)
- DATASTREAM & operator>> (CHARSTR &charstr)
- DATASTREAM & operator<< (const ::EMR &emr)
- DATASTREAM & operator>> (::EMR &emr)
- DATASTREAM & operator<< (const POINT &point)
- DATASTREAM & operator>> (POINT &point)
- DATASTREAM & operator<< (const POINTL &pointl)
- DATASTREAM & operator>> (POINTL &pointl)
- DATASTREAM & operator<< (const POINT16 &point)
- DATASTREAM & operator>> (POINT16 &point)
- DATASTREAM & operator<< (const XFORM &xform)
- DATASTREAM & operator>> (XFORM &xform)
- DATASTREAM & operator<< (const BYTEARRAY &array)
- DATASTREAM & operator>> (BYTEARRAY &array)
- DATASTREAM & operator<< (const POINTLARRAY &array)
- DATASTREAM & operator>> (POINTLARRAY &array)
- DATASTREAM & operator<< (const POINT16ARRAY &array)
- DATASTREAM & operator>> (POINT16ARRAY &array)
- DATASTREAM & operator<< (const INTARRAY &array)
- DATASTREAM & operator>> (INTARRAY &array)
- DATASTREAM & operator<< (const DWORDARRAY &array)
- DATASTREAM & operator>> (DWORDARRAY &array)
- DATASTREAM & operator<< (const ::EMRTEXT &text)
- DATASTREAM & operator>> (::EMRTEXT &text)
- DATASTREAM & operator<< (const LOGPEN &pen)
- DATASTREAM & operator>> (LOGPEN &pen)
- DATASTREAM & operator<< (const EXTLOGPEN &pen)
- DATASTREAM & operator>> (EXTLOGPEN &pen)
- DATASTREAM & operator<< (const LOGBRUSH &brush)
- DATASTREAM & operator>> (LOGBRUSH &brush)
- DATASTREAM & operator<< (const LOGFONTW &font)
- DATASTREAM & operator>> (LOGFONTW &font)
- DATASTREAM & operator<< (const PANOSE &panose)
- DATASTREAM & operator>> (PANOSE &panose)
- DATASTREAM & operator<< (const EXTLOGFONTW &font)
- DATASTREAM & operator>> (EXTLOGFONTW &font)
- DATASTREAM & operator<< (const LOGPALETTE &palette)
- DATASTREAM & operator>> (LOGPALETTE &palette)

3.4.1 Detailed Description

Support different endian modes when reading and writing the metafile.

To support different endian modes, rather than just writing the structures directly to a file via fwrite(&emr, ...), we have to write each element of the structure separately, swapping bytes as necessary. datastream supports this. Remarkably similar to the QDataStream class from Qt. So, too, for reading.

3.4.2 Constructor & Destructor Documentation

3.4.2.1 DATASTREAM() `EMF::DATASTREAM::DATASTREAM ( ::FILE * fp = 0 ) [inline]`

Constructor for DATASTREAM.

Parameters

fp	optional file pointer (but must be assigned before any output occurs.)

3.4.3 Member Function Documentation

3.4.3.1 operator<<() [1/31] `DATASTREAM& EMF::DATASTREAM::operator<< ( const ::EMR & emr ) [inline]`

Output an Enhanced Metafile Record header.

Parameters

emr	Enhanced Metafile Record header to output.

3.4.3.2 operator<<() [2/31] `DATASTREAM& EMF::DATASTREAM::operator<< ( const ::EMRTEXT & text ) [inline]`

Output an Enhanced Metafile Text Record.

Parameters

text	Enhanced Metafile Text Record to output.

3.4.3.3 operator<<() [3/31] `DATASTREAM& EMF::DATASTREAM::operator<< ( const BYTE & byte ) [inline]`

Output a byte to the stream (not swabbed or anything).

Parameters

byte	byte to output.

3.4.3.4 operator<<() [4/31] DATASTREAM& EMF::DATASTREAM::operator<< (const BYTEARRAY & *array*) [inline]

Output an array of BYTEs.

Parameters

array	array of BYTEs to output.

References EMF::BYTEARRAY::array_, and EMF::BYTEARRAY::n_.

3.4.3.5 operator<<() [5/31] DATASTREAM& EMF::DATASTREAM::operator<< (const CHARSTR & *charstr*) [inline]

Output a single byte character string.

Parameters

charstr	structure to output.

References EMF::CHARSTR::length_, and EMF::CHARSTR::string_.

3.4.3.6 operator<<() [6/31] DATASTREAM& EMF::DATASTREAM::operator<< (const DWORD & *dword*) [inline]

Output a double word (long) to the stream (swabbed).

Parameters

dword	double word (long) to output.

3.4.3.7 operator<<() [7/31] DATASTREAM& EMF::DATASTREAM::operator<< (const DWORDARRAY & *array*) [inline]

Output an array of double words (longs).

Parameters

array	array of double words (longs) to output.

References EMF::DWORDARRAY::dwords_, and EMF::DWORDARRAY::n_.

3.4.3.8 operator<<() [8/31] DATASTREAM& EMF::DATASTREAM::operator<< (const EXTLOGFONTW & *font*) [inline]

Output an Extended Logical Font definition (using WCHAR strings).

Parameters

font	Extended Logical Font definition to output.

3.4.3.9 operator<<() [9/31] DATASTREAM& EMF::DATASTREAM::operator<< (const EXTLOGPEN & *pen*) [inline]

Output an Extended Logical Pen definition.

Parameters

pen	Extended Logical Pen definition to output.

3.4.3.10 operator<<() [10/31] DATASTREAM& EMF::DATASTREAM::operator<< (const FLOAT & *float_*) [inline]

Output a single precision float to the stream (swabbed).

Parameters

*float_*	single precision float to output.

3.4.3.11 operator<<() [11/31] DATASTREAM& EMF::DATASTREAM::operator<< (const INT & *int_*) [inline]

Output a (long) int to the stream (swabbed).

Parameters

*int_*	(long) int to output.

3.4.3.12 operator<<() [12/31] DATASTREAM& EMF::DATASTREAM::operator<< (const INT16 & *word*) [inline]

Output a (short, 16-bit) word to the stream (swabbed).

Parameters

word	(short, 16-bit) word to output.

3.4.3.13 operator<<() [13/31] DATASTREAM& EMF::DATASTREAM::operator<< (const INTARRAY & *array*) [inline]

Output an array of (long) ints.

Parameters

array	array of (long) ints to output.

References EMF::INTARRAY::ints_, and EMF::INTARRAY::n_.

3.4.3.14 operator<<() [14/31] DATASTREAM& EMF::DATASTREAM::operator<< (const LOGBRUSH & *brush*) [inline]

Output a Logical Brush definition.

Parameters

brush	Logical Brush definition to output.

3.4.3.15 operator<<() [15/31] DATASTREAM& EMF::DATASTREAM::operator<< (const LOGFONTW & *font*) [inline]

Output a Logical Font definition (using WCHAR strings).

Parameters

font	Logical Font definition to output.

3.4.3.16 operator<<() [16/31] DATASTREAM& EMF::DATASTREAM::operator<< (const LOGPALETTE & *palette*) [inline]

Output a Logical Palette.

Parameters

palette	Logical Palette to output.

3.4.3.17 operator<<() [17/31] DATASTREAM& EMF::DATASTREAM::operator<< (const LOGPEN & *pen*) [inline]

Output a Logical Pen definition.

Parameters

pen	Logical Pen definition to output.

3.4.3.18 operator<<() [18/31] DATASTREAM& EMF::DATASTREAM::operator<< (const LONG & *long_*) [inline]

Output a long int to the stream (swabbed).

Parameters

*long_*	long int to output.

3.4.3.19 operator<<() [19/31] DATASTREAM& EMF::DATASTREAM::operator<< (const PADDING & *padding*) [inline]

Output a series of '\0's to pad out a record.

Parameters

padding	simple padding structure (length and number of nulls).

References EMF::PADDING::padding_, and EMF::PADDING::size_.

3.4.3.20 operator<<() [20/31] DATASTREAM& EMF::DATASTREAM::operator<< (const PANOSE & *panose*) [inline]

Output a Panose structure.

Parameters

panose	Panose structure to output.

3.4.3.21 operator<<() [21/31] DATASTREAM& EMF::DATASTREAM::operator<< (const POINT & *point*) [inline]

Output a POINT structure.

Parameters

point	POINT to output.

3.4.3.22 operator<<() [22/31] DATASTREAM& EMF::DATASTREAM::operator<< (const POINT16 & *point*) [inline]

Output a POINT16 structure.

Parameters

point	POINT16 to output.

3.4.3.23 operator<<() [23/31] DATASTREAM& EMF::DATASTREAM::operator<< (const POINT16ARRAY & *array*) [inline]

Output an array of POINT16s.

Parameters

array	array of POINT16s to output.

References EMF::POINT16ARRAY::n_, and EMF::POINT16ARRAY::points_.

3.4.3.24 operator<<() [24/31] DATASTREAM& EMF::DATASTREAM::operator<< (const POINTL & *pointl*) [inline]

Output a POINTL structure.

Parameters

pointl	POINTL to output.

3.4.3.25 operator<<() [25/31] DATASTREAM& EMF::DATASTREAM::operator<< (const POINTLARRAY & *array*) [inline]

Output an array of POINTLs.

Parameters

array	array of POINTLs to output.

References EMF::POINTLARRAY::n_, and EMF::POINTLARRAY::points_.

3.4.3.26 operator<<() [26/31] DATASTREAM& EMF::DATASTREAM::operator<< (const RECTL & *rectl*) [inline]

Output a RECTL structure.

Parameters

rectl	structure to output.

3.4.3.27 operator<<() [27/31] DATASTREAM& EMF::DATASTREAM::operator<< (const SIZEL & *sizel*) [inline]

Output a SIZEL structure.

Parameters

sizel	structure to output.

3.4.3.28 operator<<() [28/31] DATASTREAM& EMF::DATASTREAM::operator<< (const UINT & *uint*) [inline]

Output a (long) unsigned int to the stream (swabbed).

Parameters

uint	(long) unsigned int to output.

3.4.3.29 operator<<() [29/31] DATASTREAM& EMF::DATASTREAM::operator<< (const WCHARSTR & *wcharstr*) [inline]

Output a WCHAR string (note: the individual characters are swabbed).

Parameters

wcharstr	structure to output.

References EMF::WCHARSTR::length_, and EMF::WCHARSTR::string_.

3.4.3.30 operator<<() [30/31] DATASTREAM& EMF::DATASTREAM::operator<< (const WORD & *word*) [inline]

Output a (short) word to the stream (swabbed).

Parameters

word	(short) word to output.

3.4.3.31 operator<<() [31/31] DATASTREAM& EMF::DATASTREAM::operator<< (const XFORM & *xform*) [inline]

Output an XFORM structure.

Parameters

xform	XFORM to output.

3.4.3.32 operator>>() [1/30] DATASTREAM& EMF::DATASTREAM::operator>> (::EMR & *emr*) [inline]

Input an Enhanced Metafile Record header.

Parameters

emr	destination of Enhanced Metafile Record header.

3.4.3.33 operator>>() [2/30] DATASTREAM& EMF::DATASTREAM::operator>> (::EMRTEXT & *text*) [inline]

Input an Enhanced Metafile Text Record.

Parameters

text	destination of Enhanced Metafile Text Record.

3.4.3.34 operator>>() [3/30] DATASTREAM& EMF::DATASTREAM::operator>> (BYTE & *byte*) [inline]

Input a byte from the stream (not swabbed or anything).

Parameters

byte	destination for input byte.

3.4.3.35 operator>>() [4/30] DATASTREAM& EMF::DATASTREAM::operator>> (BYTEARRAY & *array*) [inline]

Input an array of BYTEs.

Parameters

array	destination of array of input BYTEs.

References EMF::BYTEARRAY::array_, and EMF::BYTEARRAY::n_.

3.4.3.36 operator>>() [5/30] DATASTREAM& EMF::DATASTREAM::operator>> (CHARSTR & *charstr*) [inline]

Input a single byte character string.

Parameters

charstr	destination of input CHAR string.

References EMF::CHARSTR::length_, and EMF::CHARSTR::string_.

3.4.3.37 operator>>() [6/30] DATASTREAM& EMF::DATASTREAM::operator>> (DWORD & *dword*) [inline]

Input a double word (long) from the stream (swabbed).

Parameters

dword	destination for double word (long).

3.4.3.38 operator>>() [7/30] DATASTREAM& EMF::DATASTREAM::operator>> (DWORDARRAY & *array*) [inline]

Input an array of double words (longs).

Parameters

array	destination of array of input double words (longs).

References EMF::DWORDARRAY::dwords_, and EMF::DWORDARRAY::n_.

3.4.3.39 operator>>() [8/30] DATASTREAM& EMF::DATASTREAM::operator>> (EXTLOGFONTW & *font*) [inline]

Input an Extended Logical Font definition (using WCHAR strings).

Parameters

font	destination of Extended Logical Font definition.

3.4.3.40 operator>>() [9/30] DATASTREAM& EMF::DATASTREAM::operator>> (EXTLOGPEN & *pen*) [inline]

Input an Extended Logical Pen definition.

Parameters

pen	destination of Extended Logical Pen definition.

3.4.3.41 operator>>() [10/30] DATASTREAM& EMF::DATASTREAM::operator>> (FLOAT & *float_*) [inline]

Input a single precision float from the stream (swabbed).

Parameters

*float_*	destination for single precision float.

3.4.3.42 operator>>() [11/30] DATASTREAM& EMF::DATASTREAM::operator>> (INT & *int_*) [inline]

Input a (long) int from the stream (swabbed).

Parameters

*int_*	destination for (long) int.

3.4.3.43 operator>>() [12/30] DATASTREAM& EMF::DATASTREAM::operator>> (INT16 & *word*) [inline]

Input a (short, 16-bit) word from the stream (swabbed).

Parameters

word	destination for (short, 16-bit) word.

3.4.3.44 operator>>() [13/30] DATASTREAM& EMF::DATASTREAM::operator>> (INTARRAY & *array*) [inline]

Input an array of (long) ints.

Parameters

array	destination of array of input (long) ints.

References EMF::INTARRAY::ints_, and EMF::INTARRAY::n_.

3.4.3.45 operator>>() [14/30] DATASTREAM& EMF::DATASTREAM::operator>> (LOGBRUSH & *brush*) [inline]

Input a Logical Brush definition.

Parameters

brush	destination of Logical Brush definition.

3.4.3.46 operator>>() [15/30] DATASTREAM& EMF::DATASTREAM::operator>> (LOGFONTW & *font*) [inline]

Input a Logical Font definition (using WCHAR strings).

Parameters

font	destination of Logical Font definition.

3.4.3.47 operator>>() [16/30] DATASTREAM& EMF::DATASTREAM::operator>> (LOGPALETTE & *palette*) [inline]

Input a Logical Palette.

Parameters

palette	destination of input Logical Palette.

3.4.3.48 operator>>() [17/30] DATASTREAM& EMF::DATASTREAM::operator>> (LOGPEN & *pen*) [inline]

Input a Logical Pen definition.

Parameters

pen	destination of Logical Pen definition.

3.4.3.49 operator>>() [18/30] DATASTREAM& EMF::DATASTREAM::operator>> (LONG & *long_*) [inline]

Input a long int from the stream (swabbed).

Parameters

*long_*	destination for long int.

3.4.3.50 operator>>() [19/30] DATASTREAM& EMF::DATASTREAM::operator>> (PANOSE & *panose*) [inline]

Input a Panose structure.

Parameters

panose	destinatino of input Panose structure.

3.4.3.51 operator>>() [20/30] DATASTREAM& EMF::DATASTREAM::operator>> (POINT & *point*) [inline]

Input a POINT structure.

Parameters

point	destination of input POINT.

3.4.3.52 operator>>() [21/30] DATASTREAM& EMF::DATASTREAM::operator>> (POINT16 & *point*) [inline]

Input a POINT16 structure.

Parameters

point	destination of input POINT16.

3.4.3.53 operator>>() [22/30] DATASTREAM& EMF::DATASTREAM::operator>> (POINT16ARRAY & *array*) [inline]

Input an array of POINT16s.

Parameters

array	destination of array of input POINT16s.

References EMF::POINT16ARRAY::n_, and EMF::POINT16ARRAY::points_.

3.4.3.54 operator>>() [23/30] DATASTREAM& EMF::DATASTREAM::operator>> (POINTL & *pointl*) [inline]

Input a POINTL structure.

Parameters

pointl	destination of input POINTL.

3.4.3.55 operator>>() [24/30] DATASTREAM& EMF::DATASTREAM::operator>> (POINTLARRAY & *array*) [inline]

Input an array of POINTLs.

Parameters

array	destination of array of input POINTLs.

References EMF::POINTLARRAY::n_, and EMF::POINTLARRAY::points_.

3.4.3.56 operator>>() [25/30] DATASTREAM& EMF::DATASTREAM::operator>> (RECTL & *rectl*) [inline]

Input a RECTL structure.

Parameters

rectl	destination of input RECTL.

3.4.3.57 operator>>() [26/30] DATASTREAM& EMF::DATASTREAM::operator>> (SIZEL & *sizel*) [inline]

Input a SIZEL structure.

Parameters

sizel	destination of input SIZEL.

3.4.3.58 operator>>() [27/30] DATASTREAM& EMF::DATASTREAM::operator>> (UINT & *uint*) [inline]

Input a (long) unsigned int from the stream (swabbed).

Parameters

uint	destination for (long) unsigned int.

3.4.3.59 operator>>() [28/30] DATASTREAM& EMF::DATASTREAM::operator>> (WCHARSTR & *wcharstr*) [inline]

Input a WCHAR string (note: the individual characters are swabbed.)

Parameters

wcharstr	destination of input WCHAR string.

References EMF::WCHARSTR::length_, and EMF::WCHARSTR::string_.

3.4.3.60 operator>>() [29/30] DATASTREAM& EMF::DATASTREAM::operator>> (WORD & *word*) [inline]

Input a (short) word from the stream (swabbed).

Parameters

word	destination for (short) word.

3.4.3.61 operator>>() [30/30] DATASTREAM& EMF::DATASTREAM::operator>> (XFORM & *xform*) [inline]

Input an XFORM structure.

Parameters

xform	destination of input XFORM.

3.4.3.62 setStream() void EMF::DATASTREAM::setStream (::FILE * *fp*) [inline]

Use the given FILE stream as the input/output destination.

Parameters

fp	file point for i/o.

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

- libemf.h

3.5 EMF::DWORDARRAY Struct Reference

Represent an array of double word integers in a simple way.

`#include <libemf.h>`

Public Member Functions

- DWORDARRAY (DWORD *const dwords, const DWORD n)

Data Fields

- DWORD *const dwords_

  Array of double words.
- const DWORD n_

  Number of double words in array.

3.5.1 Detailed Description

Represent an array of double word integers in a simple way.

Allow an array of DWORD's to be written out at once.

3.5.2 Constructor & Destructor Documentation

3.5.2.1 DWORDARRAY() `EMF::DWORDARRAY::DWORDARRAY ( DWORD *const dwords, const DWORD n ) [inline]`

simple constructor.

Parameters

dwords	pointer to double words.
n	number double words in array.

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

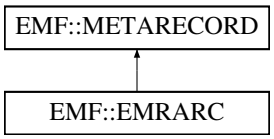
- libemf.h

3.6 EMF::EMRARC Class Reference

EMF Arc.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRARC:



Public Member Functions

- EMRARC (INT left, INT top, INT right, INT bottom, INT xstart, INT ystart, INT xend, INT yend)
- EMRARC (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.6.1 Detailed Description

EMF Arc.

Draw an arc. Not sure what the specification here means, though.

3.6.2 Constructor & Destructor Documentation

3.6.2.1 EMRARC() [1/2] EMF::EMRARC::EMRARC (

```
INT left,
INT top,
INT right,
INT bottom,
INT xstart,
INT ystart,
INT xend,
INT yend )  [inline]
```

Take these descriptions with a grain of salt...

Parameters

left	x position of left edge of arc box.
top	y position of top edge of arc box.
right	x position of right edge of arc box.
bottom	y position bottom edge of arc box.
xstart	x position of arc start.
ystart	y position of arc start.
xend	x position of arc end.
yend	y position of arc end.

3.6.2.2 EMRARC() [2/2] EMF::EMRARC::EMRARC (

```
DATASTREAM & ds )  [inline]
```

Construct an Arc record from the input datastream.

Parameters

ds	Metafile datastream.

3.6.3 Member Function Documentation

3.6.3.1 execute() void EMF::EMRARC::execute (

```
METAFILEDEVICECONTEXT * source,
HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.6.3.2 serialize() `bool EMF::EMRARC::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.6.3.3 size() `int EMF::EMRARC::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

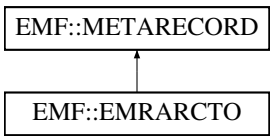
- libemf.h

3.7 EMF::EMRARCTO Class Reference

EMF Arc To.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRARCTO:



Public Member Functions

- EMRARCTO (INT left, INT top, INT right, INT bottom, INT xstart, INT ystart, INT xend, INT yend)
- EMRARCTO (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.7.1 Detailed Description

EMF Arc To.

Draw another arc. Not sure what the specification here means, though.

3.7.2 Constructor & Destructor Documentation

3.7.2.1 EMRARCTO() [1/2]

```
EMF::EMRARCTO::EMRARCTO (
        INT left,
        INT top,
        INT right,
        INT bottom,
        INT xstart,
        INT ystart,
        INT xend,
        INT yend )  [inline]
```

Take these descriptions with a grain of salt...

Parameters

left	x position of left edge of arc box.
top	y position of top edge of arc box.
right	x position of right edge of arc box.
bottom	y position bottom edge of arc box.
xstart	x position of arc start.
ystart	y position of arc start.
xend	x position of arc end.
yend	y position of arc end.

3.7.2.2 EMRARCTO() [2/2]

```
EMF::EMRARCTO::EMRARCTO (
        DATASTREAM & ds )  [inline]
```

Construct an ArcTo record from the input stream.

Parameters

ds	Metafile datastream.

3.7.3 Member Function Documentation

3.7.3.1 execute()

```
void EMF::EMRARCTO::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.7.3.2 serialize()

```
bool EMF::EMRARCTO::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.7.3.3 size()

```
int EMF::EMRARCTO::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

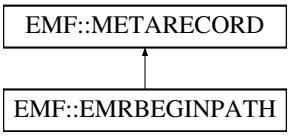
- libemf.h

3.8 EMF::EMRBEGINPATH Class Reference

EMF Begin Path.

```
#include <libemf.h>
```

Inheritance diagram for EMF::EMRBEGINPATH:



Public Member Functions

- EMRBEGINPATH (void)
- EMRBEGINPATH (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.8.1 Detailed Description

EMF Begin Path.

Begin the current path definition.

3.8.2 Constructor & Destructor Documentation

3.8.2.1 EMRBEGINPATH() [1/2] EMF::EMRBEGINPATH::EMRBEGINPATH (void) [inline]

Create a Begin Path record.

3.8.2.2 EMRBEGINPATH() [2/2] EMF::EMRBEGINPATH::EMRBEGINPATH (DATASTREAM & *ds*) [inline]

Construct a BeginPath record from the input stream.

Parameters

ds	Metafile datastream.

3.8.3 Member Function Documentation

3.8.3.1 execute() void EMF::EMRBEGINPATH::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.8.3.2 serialize() `bool EMF::EMRBEGINPATH::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.8.3.3 size() `int EMF::EMRBEGINPATH::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

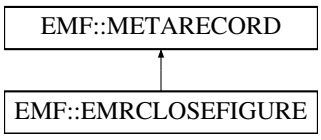
- libemf.h

3.9 EMF::EMRCLOSEFIGURE Class Reference

EMF Close Figure.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRCLOSEFIGURE:



Public Member Functions

- EMRCLOSEFIGURE (void)
- EMRCLOSEFIGURE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.9.1 Detailed Description

EMF Close Figure.

Close the current figure.

3.9.2 Constructor & Destructor Documentation

3.9.2.1 EMRCLOSEFIGURE() [1/2]

```
EMF::EMRCLOSEFIGURE::EMRCLOSEFIGURE (
        void ) [inline]
```

Create a Close Figure record.

3.9.2.2 EMRCLOSEFIGURE() [2/2]

```
EMF::EMRCLOSEFIGURE::EMRCLOSEFIGURE (
        DATASTREAM & ds ) [inline]
```

Construct a CloseFigure record from the input stream.

Parameters

ds	Metafile datastream.

3.9.3 Member Function Documentation

3.9.3.1 execute()

```
void EMF::EMRCLOSEFIGURE::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.9.3.2 serialize()

```
bool EMF::EMRCLOSEFIGURE::serialize (
        DATASTREAM ds ) [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.9.3.3 size() `int EMF::EMRCLOSEFIGURE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

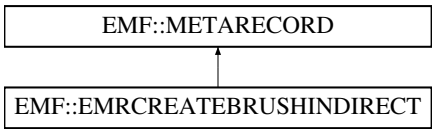
- libemf.h

3.10 EMF::EMRCREATEBRUSHINDIRECT Class Reference

EMF Brush.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRCREATEBRUSHINDIRECT:



Public Member Functions

- EMRCREATEBRUSHINDIRECT (BRUSH *brush, HGDIOBJ handle)
- EMRCREATEBRUSHINDIRECT (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.10.1 Detailed Description

EMF Brush.

Create a new brush (used for filling shapes).

3.10.2 Constructor & Destructor Documentation

3.10.2.1 EMRCREATEBRUSHINDIRECT() [1/2] `EMRCREATEBRUSHINDIRECT::EMRCREATEBRUSHINDIRECT ( BRUSH * brush, HGDIOBJ handle )`

Parameters

brush	an instance of a BRUSH object.
handle	the BRUSH object's handle.

3.10.2.2 EMRCREATEBRUSHINDIRECT() [2/2] EMRCREATEBRUSHINDIRECT::EMRCREATEBRUSHINDIRECT (DATASTREAM & *ds*)

Create a CreateBrushIndirect record from the input stream.

Parameters

ds	Metafile datastream.

3.10.3 Member Function Documentation

3.10.3.1 execute() void EMRCREATEBRUSHINDIRECT::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.10.3.2 serialize() bool EMF::EMRCREATEBRUSHINDIRECT::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.10.3.3 size() `int EMF::EMRCREATEBRUSHINDIRECT::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

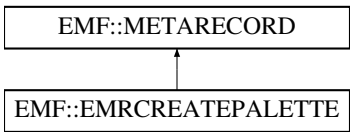
- libemf.h
- libemf.cpp

3.11 EMF::EMRCREATEPALETTE Class Reference

EMF Palette.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRCREATEPALETTE:



Public Member Functions

- EMRCREATEPALETTE (PALETTE *palette, HGDIOBJ handle)
- EMRCREATEPALETTE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.11.1 Detailed Description

EMF Palette.

Create a new palette.

3.11.2 Constructor & Destructor Documentation

3.11.2.1 EMRCREATEPALETTE() [1/2] `EMRCREATEPALETTE::EMRCREATEPALETTE ( PALETTE * palette, HGDIOBJ handle )`

Parameters

palette	an instance of a PALETTE object.
handle	the PALETTE object's handle.

3.11.2.2 EMRCREATEPALETTE() [2/2] EMF::EMRCREATEPALETTE::EMRCREATEPALETTE (DATASTREAM & *ds*)

Construct a CreatePalette record from the input stream.

Parameters

ds	Metafile datastream.

3.11.3 Member Function Documentation

3.11.3.1 execute() void EMRCREATEPALETTE::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.11.3.2 serialize() bool EMF::EMRCREATEPALETTE::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.11.3.3 size() `int EMF::EMRCREATEPALETTE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

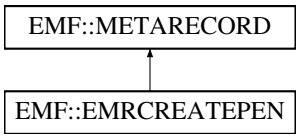
- libemf.h
- libemf.cpp

3.12 EMF::EMRCREATEPEN Class Reference

EMF Pen.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRCREATEPEN:



Public Member Functions

- EMRCREATEPEN (PEN *pen, HGDIOBJ handle)
- EMRCREATEPEN (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.12.1 Detailed Description

EMF Pen.

Create a new pen (used for drawing lines, arcs, rectangles, etc.).

3.12.2 Constructor & Destructor Documentation

3.12.2.1 EMRCREATEPEN() [1/2] `EMRCREATEPEN::EMRCREATEPEN ( PEN * pen, HGDIOBJ handle )`

Parameters

pen	an instance of a PEN object.
handle	the PEN object's handle.

3.12.2.2 EMRCREATEPEN() [2/2] EMRCREATEPEN::EMRCREATEPEN (DATASTREAM & *ds*)

Construct a CreatePen record from the input stream.

Parameters

ds	Metafile datastream.

3.12.3 Member Function Documentation

3.12.3.1 execute() void EMRCREATEPEN::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.12.3.2 serialize() bool EMF::EMRCREATEPEN::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.12.3.3 size() `int EMF::EMRCREATEPEN::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

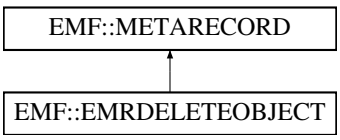
- libemf.h
- libemf.cpp

3.13 EMF::EMRDELETEOBJECT Class Reference

EMF Delete Object.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRDELETEOBJECT:



Public Member Functions

- EMRDELETEOBJECT (HGDIOBJ object)
- EMRDELETEOBJECT (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.13.1 Detailed Description

EMF Delete Object.

Delete the given object, such as a pen, brush or font.

3.13.2 Constructor & Destructor Documentation

3.13.2.1 EMRDELETEOBJECT() [1/2] `EMF::EMRDELETEOBJECT::EMRDELETEOBJECT ( HGDIOBJ object ) [inline]`

Parameters

object	the object to delete.

3.13.2.2 EMRDELETEOBJECT() [2/2] EMF::EMRDELETEOBJECT::EMRDELETEOBJECT (DATASTREAM & *ds*) [inline]

Construct a DeleteObject record from the input stream.

Parameters

ds	Metafile datastream.

3.13.3 Member Function Documentation

3.13.3.1 execute() void EMRDELETEOBJECT::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.13.3.2 serialize() bool EMF::EMRDELETEOBJECT::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.13.3.3 size() `int EMF::EMRDELETEOBJECT::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

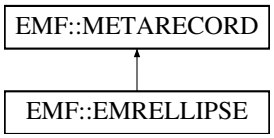
- libemf.h
- libemf.cpp

3.14 EMF::EMRELLIPSE Class Reference

EMF Ellipse.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRELLIPSE:



Public Member Functions

- EMRELLIPSE (INT left, INT top, INT right, INT bottom)
- EMRELLIPSE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.14.1 Detailed Description

EMF Ellipse.

Draw an ellipse. (I have no idea how the ellipse is defined!)

3.14.2 Constructor & Destructor Documentation

3.14.2.1 EMRELLIPSE() [1/2] `EMF::EMRELLIPSE::EMRELLIPSE ( INT left, INT top, INT right, INT bottom ) [inline]`

Take these descriptions with a grain of salt...

Parameters

left	x position of left extrema of ellipse.
top	y position of top extrema of ellipse.
right	x position of right extrema of ellipse.
bottom	y position of bottom extrema of ellipse.

3.14.2.2 EMRELLIPSE() [2/2] EMF::EMRELLIPSE::EMRELLIPSE (DATASTREAM & *ds*) [inline]

Construct an Ellipse record from the input stream.

Parameters

ds	Metafile datastream.

3.14.3 Member Function Documentation

3.14.3.1 execute() void EMF::EMRELLIPSE::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.14.3.2 serialize() bool EMF::EMRELLIPSE::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.14.3.3 size() `int EMF::EMRELLIPSE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

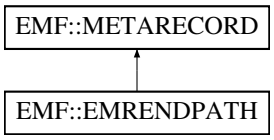
- libemf.h

3.15 EMF::EMRENDPATH Class Reference

EMF End Path.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRENDPATH:



Public Member Functions

- EMRENDPATH (void)
- EMRENDPATH (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.15.1 Detailed Description

EMF End Path.

End the current path definition.

3.15.2 Constructor & Destructor Documentation

3.15.2.1 EMRENDPATH() [1/2] `EMF::EMRENDPATH::EMRENDPATH ( void ) [inline]`

Create an End Path record.

3.15.2.2 EMRENDPATH() [2/2] `EMF::EMRENDPATH::EMRENDPATH ( DATASTREAM & ds ) [inline]`

Construct an EndPath record from the input stream.

Parameters

ds	Metafile datastream.

3.15.3 Member Function Documentation

3.15.3.1 execute()

```
void EMF::EMRENDPATH::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.15.3.2 serialize()

```
bool EMF::EMRENDPATH::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.15.3.3 size()

```
int EMF::EMRENDPATH::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

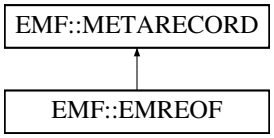
- libemf.h

3.16 EMF::EMREOF Class Reference

EMF End of File Record.

`#include <libemf.h>`

Inheritance diagram for EMF::EMREOF:



Public Member Functions

- EMREOF (void)
- EMREOF (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.16.1 Detailed Description

EMF End of File Record.

Every metafile must have an End of File record. A palette may also be recorded in the EOF record, but it is currently unused by this library (all colors are specified in full RGB coordinates).

3.16.2 Constructor & Destructor Documentation

3.16.2.1 EMREOF() [1/2] EMF::EMREOF::EMREOF (void) [inline]

Constructor contains no user serviceable parts.

3.16.2.2 EMREOF() [2/2] EMF::EMREOF::EMREOF (DATASTREAM & *ds*) [inline]

Construct an EOF record from the input stream

Parameters

ds	Metafile datastream.

3.16.3 Member Function Documentation

3.16.3.1 execute()

```
void EMF::EMREOF::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.16.3.2 serialize()

```
bool EMF::EMREOF::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.16.3.3 size()

```
int EMF::EMREOF::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

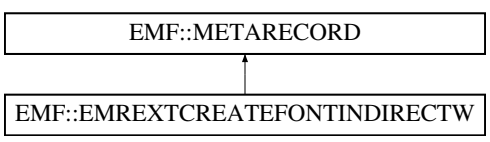
- libemf.h

3.17 EMF::EMREXTCREATEFONTINDIRECTW Class Reference

EMF Font.

`#include <libemf.h>`

Inheritance diagram for EMF::EMREXTCREATEFONTINDIRECTW:



Public Member Functions

- EMREXTCREATEFONTINDIRECTW (FONT *font, HGDIOBJ handle)
- EMREXTCREATEFONTINDIRECTW (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.17.1 Detailed Description

EMF Font.

Create a new font.

3.17.2 Constructor & Destructor Documentation

3.17.2.1 EMREXTCREATEFONTINDIRECTW() [1/2]

```
EMREXTCREATEFONTINDIRECTW::EMREXTCREATEFONTINDIRECTW (
            FONT * font,
            HGDIOBJ handle )
```

Parameters

font	an instance of a FONT object.
handle	the FONT object's handle.

3.17.2.2 EMREXTCREATEFONTINDIRECTW() [2/2]

```
EMREXTCREATEFONTINDIRECTW::EMREXTCREATEFONTINDIRECTW (
            DATASTREAM & ds )
```

Construct a CreateFontIndirectW record from the input stream.

Parameters

ds	Metafile datastream.

3.17.3 Member Function Documentation

3.17.3.1 execute()

```
void EMREXTCREATEFONTINDIRECTW::execute (
            METAFILEDEVICECONTEXT * source,
            HDC dc ) const  [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.17.3.2 serialize() `bool EMF::EMREXTCREATEFONTINDIRECTW::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.17.3.3 size() `int EMF::EMREXTCREATEFONTINDIRECTW::size ( void ) const [inline], [virtual]`

Returns

the size of the record.

Implements EMF::METARECORD.

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

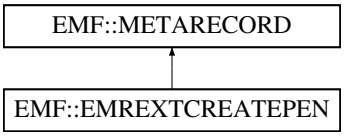
- libemf.h
- libemf.cpp

3.18 EMF::EMREXTCREATEPEN Class Reference

EMF Extended Pen.

`#include <libemf.h>`

Inheritance diagram for EMF::EMREXTCREATEPEN:



Public Member Functions

- EMREXTCREATEPEN (EXTPEN ∗pen, HGDIOBJ handle)
- EMREXTCREATEPEN (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT ∗source, HDC dc) const

3.18.1 Detailed Description

EMF Extended Pen.

Create a new pen (used for drawing lines, arcs, rectangles, etc.). Apparently uses extended attributes such as a bitmap mask.

3.18.2 Constructor & Destructor Documentation

3.18.2.1 EMREXTCREATEPEN() [1/2]

```
EMREXTCREATEPEN::EMREXTCREATEPEN (
        EXTPEN * pen,
        HGDIOBJ handle )
```

Parameters

pen	an instance of a PEN object.
handle	the PEN object's handle.

3.18.2.2 EMREXTCREATEPEN() [2/2]

```
EMREXTCREATEPEN::EMREXTCREATEPEN (
        DATASTREAM & ds )
```

Construct a ExtCreatePen record from the input stream.

Parameters

ds	Metafile datastream.

3.18.3 Member Function Documentation

3.18.3.1 execute()

```
void EMREXTCREATEPEN::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.18.3.2 serialize() `bool EMF::EMREXTCREATEPEN::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.18.3.3 size() `int EMF::EMREXTCREATEPEN::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

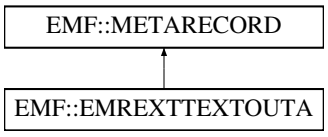
- libemf.h
- libemf.cpp

3.19 EMF::EMREXTTEXTOUTA Class Reference

EMF Extended Text Output ASCII.

`#include <libemf.h>`

Inheritance diagram for EMF::EMREXTTEXTOUTA:



Public Member Functions

- EMREXTTEXTOUTA (const RECTL *bounds, DWORD graphicsMode, FLOAT xScale, FLOAT yScale, const PEMRTEXT text, LPCSTR string, const INT *dx)
- EMREXTTEXTOUTA (DATASTREAM &ds)
- ~EMREXTTEXTOUTA ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.19.1 Detailed Description

EMF Extended Text Output ASCII.

Draw this text string with the current font, in the color of the current pen and with the given text background color. Individual character positioning can be given in the dx array.

3.19.2 Constructor & Destructor Documentation

3.19.2.1 EMREXTTEXTOUTA() [1/2]

```
EMF::EMREXTTEXTOUTA::EMREXTTEXTOUTA (
        const RECTL * bounds,
        DWORD graphicsMode,
        FLOAT xScale,
        FLOAT yScale,
        const PEMRTEXT text,
        LPCSTR string,
        const INT * dx )  [inline]
```

Parameters

bounds	bounding box of text string.
graphicsMode	(not entirely sure?)
xScale	width scale factor (of what?)
yScale	height scale factor (of what?)
text	a text metarecord containing the rendering style.
string	the text to render
dx	an array of positions for each character in string.

3.19.2.2 EMREXTTEXTOUTA() [2/2]

```
EMF::EMREXTTEXTOUTA::EMREXTTEXTOUTA (
        DATASTREAM & ds )  [inline]
```

Construct a ExtTextOutA record from the input stream.

Parameters

ds	Metafile datastream.

3.19.2.3 ~EMREXTTEXTOUTA() `EMF::EMREXTTEXTOUTA::~EMREXTTEXTOUTA ( ) [inline]`

Destructor frees its copy of the string and its character offset array

3.19.3 Member Function Documentation

3.19.3.1 execute() `void EMF::EMREXTTEXTOUTA::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.19.3.2 serialize() `bool EMF::EMREXTTEXTOUTA::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.19.3.3 size() `int EMF::EMREXTTEXTOUTA::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

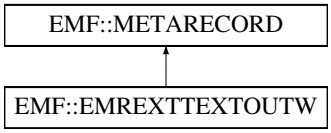
- libemf.h

3.20 EMF::EMREXTTEXTOUTW Class Reference

EMF Extended Text Output Wide character.

`#include <libemf.h>`

Inheritance diagram for EMF::EMREXTTEXTOUTW:



Public Member Functions

- EMREXTTEXTOUTW (const RECTL *bounds, DWORD graphicsMode, FLOAT xScale, FLOAT yScale, const PEMRTEXT text, LPCWSTR string, const INT *dx)
- EMREXTTEXTOUTW (DATASTREAM &ds)
- ~EMREXTTEXTOUTW ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.20.1 Detailed Description

EMF Extended Text Output Wide character.

Draw this text string with the current font, in the color of the current pen and with the given text background color. Individual character positioning can be given in the dx array.

3.20.2 Constructor & Destructor Documentation

3.20.2.1 EMREXTTEXTOUTW() [1/2]

```
EMF::EMREXTTEXTOUTW::EMREXTTEXTOUTW (
        const RECTL * bounds,
        DWORD graphicsMode,
        FLOAT xScale,
        FLOAT yScale,
        const PEMRTEXT text,
        LPCWSTR string,
        const INT * dx )  [inline]
```

Parameters

bounds	bounding box of text string.
graphicsMode	(not entirely sure?)
xScale	width scale factor (of what?)
yScale	height scale factor (of what?)
text	a text metarecord containing the rendering style.
string	the text to render
dx	an array of positions for each character in string.

3.20.2.2 EMREXTTEXTOUTW() [2/2] EMF::EMREXTTEXTOUTW::EMREXTTEXTOUTW (DATASTREAM & *ds*) [inline]

Construct a ExtTextOutA record from the input stream.

Parameters

ds	Metafile datastream.

3.20.2.3 ~EMREXTTEXTOUTW() EMF::EMREXTTEXTOUTW::~EMREXTTEXTOUTW ( ) [inline]

Destructor frees its copy of the string and its character offset array

3.20.3 Member Function Documentation

3.20.3.1 execute() void EMF::EMREXTTEXTOUTW::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.20.3.2 serialize() bool EMF::EMREXTTEXTOUTW::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.20.3.3 size() `int EMF::EMREXTTEXTOUTW::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

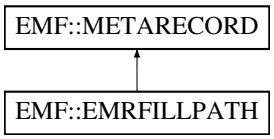
- libemf.h

3.21 EMF::EMRFILLPATH Class Reference

EMF Fill path.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRFILLPATH:



Public Member Functions

- EMRFILLPATH (const RECTL *bounds)
- EMRFILLPATH (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.21.1 Detailed Description

EMF Fill path.

Fill the path.

3.21.2 Constructor & Destructor Documentation

3.21.2.1 EMRFILLPATH() [1/2] `EMF::EMRFILLPATH::EMRFILLPATH ( const RECTL * bounds ) [inline]`

Parameters

bounds	overall bounding box of polygon.

3.21.2.2 EMRFILLPATH() [2/2] EMF::EMRFILLPATH::EMRFILLPATH (DATASTREAM & *ds*) [inline]

Create a FillPath record from input stream.

Parameters

ds	Metafile datastream.

3.21.3 Member Function Documentation

3.21.3.1 execute() void EMF::EMRFILLPATH::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.21.3.2 serialize() bool EMF::EMRFILLPATH::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.21.3.3 size() int EMF::EMRFILLPATH::size (void) const [inline], [virtual]

Internally computed size of this record.

Implements EMF::METARECORD.

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

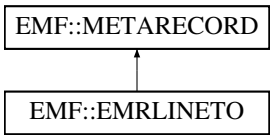
- libemf.h

3.22 EMF::EMRLINETO Class Reference

EMF Line To.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRLINETO:



Public Member Functions

- EMRLINETO (INT x, INT y)
- EMRLINETO (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.22.1 Detailed Description

EMF Line To.

Draw a line using the current pen to the given position.

3.22.2 Constructor & Destructor Documentation

3.22.2.1 EMRLINETO() [1/2]

```
EMF::EMRLINETO::EMRLINETO (
        INT x,
        INT y )  [inline]
```

Parameters

x	x position to draw line to in logical coordinates.
y	y position to draw line to in logical coordinates.

3.22.2.2 EMRLINETO() [2/2] EMF::EMRLINETO::EMRLINETO (DATASTREAM & *ds*) [inline]

Construct a LineTo record from the input stream.

Parameters

ds	Metafile datastream

3.22.3 Member Function Documentation

3.22.3.1 execute() void EMF::EMRLINETO::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.22.3.2 serialize() bool EMF::EMRLINETO::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream

Implements EMF::METARECORD.

3.22.3.3 size() int EMF::EMRLINETO::size (void) const [inline], [virtual]

Internally computed size of this record.

Implements EMF::METARECORD.

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

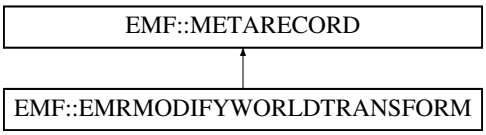
- libemf.h

3.23 EMF::EMRMODIFYWORLDTRANSFORM Class Reference

EMF Modify World Transform.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRMODIFYWORLDTRANSFORM:



Public Member Functions

- EMRMODIFYWORLDTRANSFORM (const XFORM *transform, DWORD mode)
- EMRMODIFYWORLDTRANSFORM (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.23.1 Detailed Description

EMF Modify World Transform.

Enhanced metafiles have a Coordinate Transformation which allows the contents to be rotated and transformed. Does not appear to work properly in StarOffice (but it's also possible I don't understand how it's supposed to work either).

3.23.2 Constructor & Destructor Documentation

3.23.2.1 EMRMODIFYWORLDTRANSFORM() [1/2]

```
EMF::EMRMODIFYWORLDTRANSFORM::EMRMODIFYWORLDT↩
RANSFORM (
            const XFORM * transform,
            DWORD mode )  [inline]
```

Parameters

transform	the transformation to apply
mode	the mode of the transformation application (namely, pre- or post-multiply)

3.23.2.2 EMRMODIFYWORLDTRANSFORM() [2/2]

```
EMF::EMRMODIFYWORLDTRANSFORM::EMRMODIFYWORLDT↩
RANSFORM (
```

DATASTREAM & *ds*) [inline]

Construct a ModifyWorldTransform from the input datastream.

Parameters

ds	Metafile datastream.

3.23.3 Member Function Documentation

3.23.3.1 execute() void EMF::EMRMODIFYWORLDTRANSFORM::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.23.3.2 serialize() bool EMF::EMRMODIFYWORLDTRANSFORM::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.23.3.3 size() int EMF::EMRMODIFYWORLDTRANSFORM::size (void) const [inline], [virtual]

Internally computed size of this record.

Implements EMF::METARECORD.

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

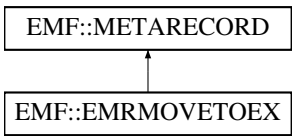
- libemf.h

3.24 EMF::EMRMOVETOEX Class Reference

EMF MoveTo (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRMOVETOEX:



Public Member Functions

- EMRMOVETOEX (INT x, INT y)
- EMRMOVETOEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.24.1 Detailed Description

EMF MoveTo (ex)

Move the drawing point to the given position.

3.24.2 Constructor & Destructor Documentation

3.24.2.1 EMRMOVETOEX() [1/2]

```
EMF::EMRMOVETOEX::EMRMOVETOEX (
        INT x,
        INT y )  [inline]
```

Parameters

x	new x position in logical coordinates.
y	new y position in logical coordinates.

3.24.2.2 EMRMOVETOEX() [2/2]

```
EMF::EMRMOVETOEX::EMRMOVETOEX (
        DATASTREAM & ds )  [inline]
```

Construct a MoveToEx record from the input stream.

Parameters

ds	Metafile datastream.

3.24.3 Member Function Documentation

3.24.3.1 execute()

```
void EMF::EMRMOVETOEX::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.24.3.2 serialize()

```
bool EMF::EMRMOVETOEX::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.24.3.3 size()

```
int EMF::EMRMOVETOEX::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

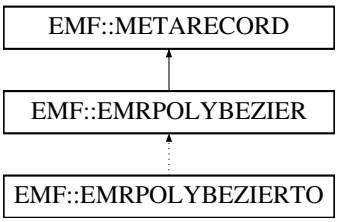
- libemf.h

3.25 EMF::EMRPOLYBEZIER Class Reference

EMF Polybezier.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYBEZIER:



Public Member Functions

- EMRPOLYBEZIER (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYBEZIER (DATASTREAM &ds)
- ~EMRPOLYBEZIER ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.25.1 Detailed Description

EMF Polybezier.

Draw a polygonal Bezier curve to (what?)

3.25.2 Constructor & Destructor Documentation

3.25.2.1 EMRPOLYBEZIER() [1/2]

```
EMF::EMRPOLYBEZIER::EMRPOLYBEZIER (
        const RECTL * bounds,
        const POINT * points,
        INT n )  [inline]
```

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

3.25.2.2 EMRPOLYBEZIER() [2/2] EMF::EMRPOLYBEZIER::EMRPOLYBEZIER (DATASTREAM & *ds*) [inline]

Construct a PolyBezier record from the input stream.

Parameters

ds	Metafile datastream.

3.25.2.3 ~EMRPOLYBEZIER() EMF::EMRPOLYBEZIER::~EMRPOLYBEZIER ( ) [inline]

Destructor frees a copy of the points it buffered.

3.25.3 Member Function Documentation

3.25.3.1 execute() void EMF::EMRPOLYBEZIER::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO.

3.25.3.2 serialize() bool EMF::EMRPOLYBEZIER::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO.

3.25.3.3 size() `int EMF::EMRPOLYBEZIER::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO.

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

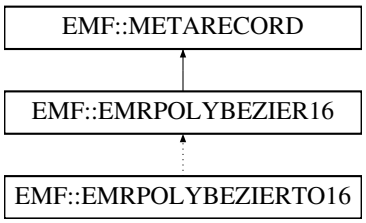
- libemf.h

3.26 EMF::EMRPOLYBEZIER16 Class Reference

EMF Polybezier16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYBEZIER16:



Public Member Functions

- EMRPOLYBEZIER16 (const RECTL *bounds, const POINT16 *points, INT n)
- EMRPOLYBEZIER16 (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYBEZIER16 (DATASTREAM &ds)
- ~EMRPOLYBEZIER16 ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.26.1 Detailed Description

EMF Polybezier16.

Draw a polygonal Bezier curve to (what?) using 16-bit points.

3.26.2 Constructor & Destructor Documentation

3.26.2.1 EMRPOLYBEZIER16() [1/3] `EMF::EMRPOLYBEZIER16::EMRPOLYBEZIER16 ( const RECTL * bounds, const POINT16 * points, INT n ) [inline]`

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

Referenced by EMRPOLYBEZIER16().

3.26.2.2 EMRPOLYBEZIER16() [2/3] EMF::EMRPOLYBEZIER16::EMRPOLYBEZIER16 (const RECTL * *bounds*, const POINT * *points*, INT *n*) [inline]

Convenience constructor with POINTs.

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

References EMRPOLYBEZIER16().

3.26.2.3 EMRPOLYBEZIER16() [3/3] EMF::EMRPOLYBEZIER16::EMRPOLYBEZIER16 (DATASTREAM & *ds*) [inline]

Construct a PolyBezier record from the input stream.

Parameters

ds	Metafile datastream.

3.26.2.4 ~EMRPOLYBEZIER16() EMF::EMRPOLYBEZIER16::~EMRPOLYBEZIER16 ( ) [inline]

Destructor frees a copy of the points it buffered.

3.26.3 Member Function Documentation

3.26.3.1 execute()

```
void EMF::EMRPOLYBEZIER16::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO16.

3.26.3.2 serialize() `bool EMF::EMRPOLYBEZIER16::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO16.

3.26.3.3 size() `int EMF::EMRPOLYBEZIER16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

Reimplemented in EMF::EMRPOLYBEZIERTO16.

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

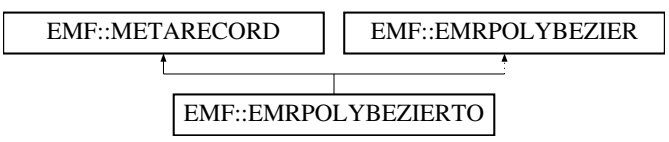
- libemf.h

3.27 EMF::EMRPOLYBEZIERTO Class Reference

EMF PolyBezierTo.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYBEZIERTO:



Public Member Functions

- EMRPOLYBEZIERTO (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYBEZIERTO (DATASTREAM &ds)
- ~EMRPOLYBEZIERTO ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.27.1 Detailed Description

EMF PolyBezierTo.

Draw a polygonal Bezier curve to (what?)

3.27.2 Constructor & Destructor Documentation

3.27.2.1 EMRPOLYBEZIERTO() [1/2]

```
EMF::EMRPOLYBEZIERTO::EMRPOLYBEZIERTO (
        const RECTL * bounds,
        const POINT * points,
        INT n )  [inline]
```

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

3.27.2.2 EMRPOLYBEZIERTO() [2/2]

```
EMF::EMRPOLYBEZIERTO::EMRPOLYBEZIERTO (
        DATASTREAM & ds )  [inline]
```

Construct a PolyBezier record from the input stream.

Parameters

ds	Metafile datastream.

3.27.2.3 ~EMRPOLYBEZIERTO()

```
EMF::EMRPOLYBEZIERTO::~EMRPOLYBEZIERTO ( )  [inline]
```

Destructor frees a copy of the points it buffered.

3.27.3 Member Function Documentation

3.27.3.1 execute() `void EMF::EMRPOLYBEZIERTO::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.27.3.2 serialize() `bool EMF::EMRPOLYBEZIERTO::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.27.3.3 size() `int EMF::EMRPOLYBEZIERTO::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

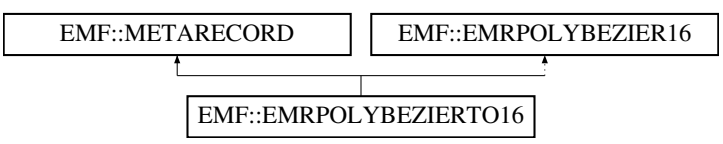
- libemf.h

3.28 EMF::EMRPOLYBEZIERTO16 Class Reference

EMF PolyBezierTo16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYBEZIERTO16:



Public Member Functions

- EMRPOLYBEZIERTO16 (const RECTL *bounds, const POINT16 *points, INT n)
- EMRPOLYBEZIERTO16 (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYBEZIERTO16 (DATASTREAM &ds)
- ~EMRPOLYBEZIERTO16 ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.28.1 Detailed Description

EMF PolyBezierTo16.

Draw a polygonal Bezier curve to (what?) using 16-bit points

3.28.2 Constructor & Destructor Documentation

3.28.2.1 EMRPOLYBEZIERTO16() [1/3]

```
EMF::EMRPOLYBEZIERTO16::EMRPOLYBEZIERTO16 (
        const RECTL * bounds,
        const POINT16 * points,
        INT n )  [inline]
```

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

Referenced by EMRPOLYBEZIERTO16().

3.28.2.2 EMRPOLYBEZIERTO16() [2/3]

```
EMF::EMRPOLYBEZIERTO16::EMRPOLYBEZIERTO16 (
        const RECTL * bounds,
        const POINT * points,
        INT n )  [inline]
```

Convenience constructor with POINTs.

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

References EMRPOLYBEZIERTO16().

3.28.2.3 EMRPOLYBEZIERTO16() [3/3] EMF::EMRPOLYBEZIERTO16::EMRPOLYBEZIERTO16 (DATASTREAM & *ds*) [inline]

Construct a PolyBezier record from the input stream.

Parameters

ds	Metafile datastream.

3.28.2.4 ~EMRPOLYBEZIERTO16() EMF::EMRPOLYBEZIERTO16::~EMRPOLYBEZIERTO16 ( ) [inline]

Destructor frees a copy of the points it buffered.

3.28.3 Member Function Documentation

3.28.3.1 execute() void EMF::EMRPOLYBEZIERTO16::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.28.3.2 serialize() bool EMF::EMRPOLYBEZIERTO16::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.28.3.3 size() `int EMF::EMRPOLYBEZIERTO16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

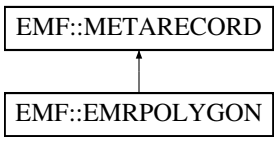
- libemf.h

3.29 EMF::EMRPOLYGON Class Reference

EMF Filled Polygon.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYGON:



Public Member Functions

- EMRPOLYGON (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYGON (DATASTREAM &ds)
- ~EMRPOLYGON ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.29.1 Detailed Description

EMF Filled Polygon.

Draw a filled polygon.

3.29.2 Constructor & Destructor Documentation

3.29.2.1 EMRPOLYGON() [1/2] `EMF::EMRPOLYGON::EMRPOLYGON ( const RECTL * bounds, const POINT * points, INT n ) [inline]`

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
n	number of vertices in points.

3.29.2.2 EMRPOLYGON() [2/2] EMF::EMRPOLYGON::EMRPOLYGON (DATASTREAM & *ds*) [inline]

Construct a Polygon record from the input stream.

Parameters

ds	Metafile datastream.

3.29.2.3 ~EMRPOLYGON() EMF::EMRPOLYGON::~EMRPOLYGON ( ) [inline]

Destructor frees a copy of the points it buffered.

3.29.3 Member Function Documentation

3.29.3.1 execute() void EMF::EMRPOLYGON::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.29.3.2 serialize() bool EMF::EMRPOLYGON::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.29.3.3 size() `int EMF::EMRPOLYGON::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

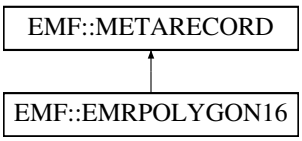
- libemf.h

3.30 EMF::EMRPOLYGON16 Class Reference

EMF Filled Polygon16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYGON16:



Public Member Functions

- EMRPOLYGON16 (const RECTL *bounds, const POINT *points, INT16 n)
- EMRPOLYGON16 (const RECTL *bounds, const POINT16 *points, INT16 n)
- EMRPOLYGON16 (DATASTREAM &ds)
- ~EMRPOLYGON16 ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.30.1 Detailed Description

EMF Filled Polygon16.

Draw a filled polygon (with 16-bit points).

3.30.2 Constructor & Destructor Documentation

3.30.2.1 EMRPOLYGON16() [1/3] `EMF::EMRPOLYGON16::EMRPOLYGON16 ( const RECTL * bounds, const POINT * points, INT16 n ) [inline]`

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
n	number of vertices in points.

Referenced by EMRPOLYGON16().

3.30.2.2 EMRPOLYGON16() [2/3] EMF::EMRPOLYGON16::EMRPOLYGON16 (

```
const RECTL * bounds,
const POINT16 * points,
INT16 n )  [inline]
```

Additional constructor which takes a POINT16 array.

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
n	number of vertices in points.

References EMRPOLYGON16().

3.30.2.3 EMRPOLYGON16() [3/3] EMF::EMRPOLYGON16::EMRPOLYGON16 (

```
DATASTREAM & ds )  [inline]
```

Construct a Polygon record from the input stream.

Parameters

ds	Metafile datastream.

3.30.2.4 ~EMRPOLYGON16() EMF::EMRPOLYGON16::~EMRPOLYGON16 ( ) [inline]

Destructor frees a copy of the points it buffered.

3.30.3 Member Function Documentation

3.30.3.1 execute()

```
void EMF::EMRPOLYGON16::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.30.3.2 serialize() `bool EMF::EMRPOLYGON16::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.30.3.3 size() `int EMF::EMRPOLYGON16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

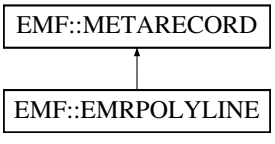
- libemf.h

3.31 EMF::EMRPOLYLINE Class Reference

EMF Polyline.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYLINE:



Public Member Functions

- EMRPOLYLINE (const RECTL *bounds, const POINT *points, INT n)
- ~EMRPOLYLINE ()
- EMRPOLYLINE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.31.1 Detailed Description

EMF Polyline.

Draw a series of connected lines.

3.31.2 Constructor & Destructor Documentation

3.31.2.1 EMRPOLYLINE() [1/2] EMF::EMRPOLYLINE::EMRPOLYLINE (const RECTL * *bounds*, const POINT * *points*, INT *n*) [inline]

Parameters

bounds	overall bounding box of polyline.
points	array of polyline vertices.
n	number of vertices in points.

3.31.2.2 ~EMRPOLYLINE() EMF::EMRPOLYLINE::~EMRPOLYLINE ( ) [inline]

Destructor frees a copy of the points it buffered.

3.31.2.3 EMRPOLYLINE() [2/2] EMF::EMRPOLYLINE::EMRPOLYLINE (DATASTREAM & *ds*) [inline]

Construct a Polyline record from the input stream.

Parameters

ds	Metafile datastream.

3.31.3 Member Function Documentation

3.31.3.1 execute() `void EMF::EMRPOLYLINE::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.31.3.2 serialize() `bool EMF::EMRPOLYLINE::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.31.3.3 size() `int EMF::EMRPOLYLINE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

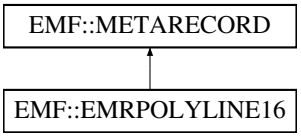
- libemf.h

3.32 EMF::EMRPOLYLINE16 Class Reference

EMF Polyline16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYLINE16:



Public Member Functions

- EMRPOLYLINE16 (const RECTL *bounds, const POINT16 *points, INT n)
- EMRPOLYLINE16 (const RECTL *bounds, const POINT *points, INT n)
- ~EMRPOLYLINE16 ()
- EMRPOLYLINE16 (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.32.1 Detailed Description

EMF Polyline16.

Draw a series of connected lines using 16-bit points.

3.32.2 Constructor & Destructor Documentation

3.32.2.1 EMRPOLYLINE16() [1/3]

```
EMF::EMRPOLYLINE16::EMRPOLYLINE16 (
        const RECTL * bounds,
        const POINT16 * points,
        INT n )  [inline]
```

Parameters

bounds	overall bounding box of polyline.
points	array of polyline vertices.
n	number of vertices in points.

Referenced by EMRPOLYLINE16().

3.32.2.2 EMRPOLYLINE16() [2/3]

```
EMF::EMRPOLYLINE16::EMRPOLYLINE16 (
        const RECTL * bounds,
        const POINT * points,
        INT n )  [inline]
```

Constructor with POINTs.

Parameters

bounds	overall bounding box of polyline.
points	array of polyline vertices.
n	number of vertices in points.

References EMRPOLYLINE16().

3.32.2.3 ~EMRPOLYLINE16() EMF::EMRPOLYLINE16::~EMRPOLYLINE16 ( ) [inline]

Destructor frees a copy of the points it buffered.

3.32.2.4 EMRPOLYLINE16() [3/3] EMF::EMRPOLYLINE16::EMRPOLYLINE16 (DATASTREAM & *ds*) [inline]

Construct a Polyline record from the input stream.

Parameters

ds	Metafile datastream.

3.32.3 Member Function Documentation

3.32.3.1 execute() void EMF::EMRPOLYLINE16::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.32.3.2 serialize() bool EMF::EMRPOLYLINE16::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.32.3.3 size() `int EMF::EMRPOLYLINE16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

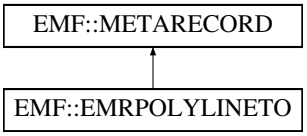
- libemf.h

3.33 EMF::EMRPOLYLINETO Class Reference

EMF PolylineTo.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYLINETO:



Public Member Functions

- EMRPOLYLINETO (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYLINETO (DATASTREAM &ds)
- ~EMRPOLYLINETO ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.33.1 Detailed Description

EMF PolylineTo.

Draw a polygonal line curve to (what?)

3.33.2 Constructor & Destructor Documentation

3.33.2.1 EMRPOLYLINETO() [1/2] `EMF::EMRPOLYLINETO::EMRPOLYLINETO ( const RECTL * bounds, const POINT * points, INT n ) [inline]`

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

3.33.2.2 EMRPOLYLINETO() [2/2] EMF::EMRPOLYLINETO::EMRPOLYLINETO (DATASTREAM & *ds*) [inline]

Construct a PolylineTo record from the input stream.

Parameters

ds	Metafile datastream.

3.33.2.3 ~EMRPOLYLINETO() EMF::EMRPOLYLINETO::~EMRPOLYLINETO ( ) [inline]

Destructor frees a copy of the points it buffered.

3.33.3 Member Function Documentation

3.33.3.1 execute() void EMF::EMRPOLYLINETO::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.33.3.2 serialize() bool EMF::EMRPOLYLINETO::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.33.3.3 size() `int EMF::EMRPOLYLINETO::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

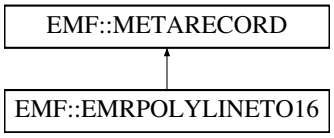
- libemf.h

3.34 EMF::EMRPOLYLINETO16 Class Reference

EMF PolylineTo16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYLINETO16:



Public Member Functions

- EMRPOLYLINETO16 (const RECTL *bounds, const POINT16 *points, INT n)
- EMRPOLYLINETO16 (const RECTL *bounds, const POINT *points, INT n)
- EMRPOLYLINETO16 (DATASTREAM &ds)
- ~EMRPOLYLINETO16 ()
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.34.1 Detailed Description

EMF PolylineTo16.

Draw a polygonal line curve to (what?)

3.34.2 Constructor & Destructor Documentation

3.34.2.1 EMRPOLYLINETO16() [1/3] `EMF::EMRPOLYLINETO16::EMRPOLYLINETO16 ( const RECTL * bounds, const POINT16 * points, INT n ) [inline]`

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

Referenced by EMRPOLYLINETO16().

3.34.2.2 EMRPOLYLINETO16() [2/3] EMF::EMRPOLYLINETO16::EMRPOLYLINETO16 (

```
const RECTL * bounds,
const POINT * points,
INT n ) [inline]
```

Convenience constructor with POINTs.

Parameters

bounds	overall bounding box of polybezier curve.
points	array of polybezier vertices.
n	number of vertices in points.

References EMRPOLYLINETO16().

3.34.2.3 EMRPOLYLINETO16() [3/3] EMF::EMRPOLYLINETO16::EMRPOLYLINETO16 (

```
DATASTREAM & ds ) [inline]
```

Construct a PolylineTo record from the input stream.

Parameters

ds	Metafile datastream.

3.34.2.4 ~EMRPOLYLINETO16() EMF::EMRPOLYLINETO16::~EMRPOLYLINETO16 ( ) [inline]

Destructor frees a copy of the points it buffered.

3.34.3 Member Function Documentation

3.34.3.1 execute()

```
void EMF::EMRPOLYLINETO16::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.34.3.2 serialize() `bool EMF::EMRPOLYLINETO16::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.34.3.3 size() `int EMF::EMRPOLYLINETO16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

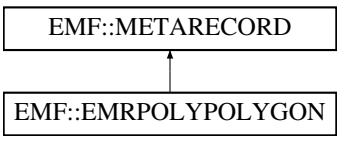
- libemf.h

3.35 EMF::EMRPOLYPOLYGON Class Reference

EMF Poly Polygon.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYPOLYGON:



Public Member Functions

- EMRPOLYPOLYGON (const RECTL *bounds, const POINT *points, const INT *counts, UINT polygons)
- ~EMRPOLYPOLYGON ()
- EMRPOLYPOLYGON (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.35.1 Detailed Description

EMF Poly Polygon.

Draw several filled polygons.

3.35.2 Constructor & Destructor Documentation

3.35.2.1 EMRPOLYPOLYGON() [1/2]

```
EMF::EMRPOLYPOLYGON::EMRPOLYPOLYGON (
    const RECTL * bounds,
    const POINT * points,
    const INT * counts,
    UINT polygons ) [inline]
```

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
counts	array of number of vertices in each polygon.
polygons	number of polygons.

3.35.2.2 ~EMRPOLYPOLYGON()

```
EMF::EMRPOLYPOLYGON::~EMRPOLYPOLYGON ( ) [inline]
```

Destructor frees a copy of the counts and points it buffered.

3.35.2.3 EMRPOLYPOLYGON() [2/2]

```
EMF::EMRPOLYPOLYGON::EMRPOLYPOLYGON (
    DATASTREAM & ds ) [inline]
```

Construct a Polygon record from the input stream.

Parameters

ds	Metafile datastream.

3.35.3 Member Function Documentation

3.35.3.1 execute() `void EMF::EMRPOLYPOLYGON::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.35.3.2 serialize() `bool EMF::EMRPOLYPOLYGON::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.35.3.3 size() `int EMF::EMRPOLYPOLYGON::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

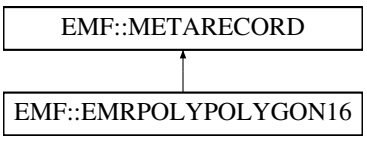
- libemf.h

3.36 EMF::EMRPOLYPOLYGON16 Class Reference

EMF Poly Polygon16.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRPOLYPOLYGON16:



Public Member Functions

- EMRPOLYPOLYGON16 (const RECTL *bounds, const POINT *points, const INT *counts, UINT polygons)
- EMRPOLYPOLYGON16 (const RECTL *bounds, const POINT16 *points, const INT *counts, UINT16 polygons)
- ~EMRPOLYPOLYGON16 ()
- EMRPOLYPOLYGON16 (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.36.1 Detailed Description

EMF Poly Polygon16.

Draw several filled polygons (with 16-bit points).

3.36.2 Constructor & Destructor Documentation

3.36.2.1 EMRPOLYPOLYGON16() [1/3]

```
EMF::EMRPOLYPOLYGON16::EMRPOLYPOLYGON16 (
        const RECTL * bounds,
        const POINT * points,
        const INT * counts,
        UINT polygons )  [inline]
```

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
counts	array of number of vertices in each polygon.
polygons	number of polygons.

Referenced by EMRPOLYPOLYGON16().

3.36.2.2 EMRPOLYPOLYGON16() [2/3]

```
EMF::EMRPOLYPOLYGON16::EMRPOLYPOLYGON16 (
        const RECTL * bounds,
        const POINT16 * points,
        const INT * counts,
        UINT16 polygons )  [inline]
```

Additional constructor which takes a POINT16 structure.

Parameters

bounds	overall bounding box of polygon.
points	array of polygon vertices.
counts	array of number of vertices in each polygon.
polygons	number of polygons.

References EMRPOLYPOLYGON16().

3.36.2.3 ~EMRPOLYPOLYGON16() EMF::EMRPOLYPOLYGON16::~EMRPOLYPOLYGON16 ( ) [inline]

Destructor frees a copy of the counts and points it buffered.

3.36.2.4 EMRPOLYPOLYGON16() [3/3] EMF::EMRPOLYPOLYGON16::EMRPOLYPOLYGON16 (DATASTREAM & *ds*) [inline]

Construct a Polygon record from the input stream.

Parameters

ds	Metafile datastream.

3.36.3 Member Function Documentation

3.36.3.1 execute() void EMF::EMRPOLYPOLYGON16::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.36.3.2 serialize() bool EMF::EMRPOLYPOLYGON16::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.36.3.3 size() `int EMF::EMRPOLYPOLYGON16::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

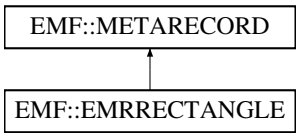
- libemf.h

3.37 EMF::EMRRECTANGLE Class Reference

EMF Rectangle.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRRECTANGLE:



Public Member Functions

- EMRRECTANGLE (INT left, INT top, INT right, INT bottom)
- EMRRECTANGLE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.37.1 Detailed Description

EMF Rectangle.

Draw a rectangle.

3.37.2 Constructor & Destructor Documentation

3.37.2.1 EMRRECTANGLE() [1/2] `EMF::EMRRECTANGLE::EMRRECTANGLE ( INT left, INT top, INT right, INT bottom ) [inline]`

Parameters

left	x position of left side of rectangle.
top	y position of top side of rectangle.
right	x position of right edge of rectangle.
bottom	y position of bottom edge of rectangle.

3.37.2.2 EMRRECTANGLE() [2/2] EMF::EMRRECTANGLE::EMRRECTANGLE (DATASTREAM & *ds*) [inline]

Construct a Rectangle record from the input stream.

Parameters

ds	Metafile datastream.

3.37.3 Member Function Documentation

3.37.3.1 execute() void EMF::EMRRECTANGLE::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.37.3.2 serialize() bool EMF::EMRRECTANGLE::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.37.3.3 size() `int EMF::EMRRECTANGLE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

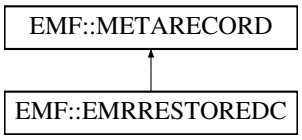
- libemf.h

3.38 EMF::EMRRESTOREDC Class Reference

EMF Restore DC.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRRESTOREDC:



Public Member Functions

- EMRRESTOREDC (INT n)
- EMRRESTOREDC (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.38.1 Detailed Description

EMF Restore DC.

Use the stored device context in this context(?)

3.38.2 Constructor & Destructor Documentation

3.38.2.1 EMRRESTOREDC() [1/2] `EMF::EMRRESTOREDC::EMRRESTOREDC ( INT n ) [inline]`

Create a Restore DC record.

3.38.2.2 EMRRESTOREDC() [2/2] `EMF::EMRRESTOREDC::EMRRESTOREDC ( DATASTREAM & ds ) [inline]`

Construct an Restoredc record from the input stream.

Parameters

ds	Metafile datastream.

3.38.3 Member Function Documentation

3.38.3.1 execute()

```
void EMF::EMRRESTOREDC::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.38.3.2 serialize()

```
bool EMF::EMRRESTOREDC::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.38.3.3 size()

```
int EMF::EMRRESTOREDC::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

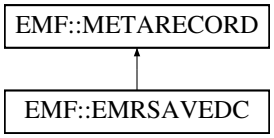
- libemf.h

3.39 EMF::EMRSAVEDC Class Reference

EMF Save DC.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSAVEDC:



Public Member Functions

- EMRSAVEDC (void)
- EMRSAVEDC (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.39.1 Detailed Description

EMF Save DC.

Save the device context (i.e., push contents on a stack of some variety?)

3.39.2 Constructor & Destructor Documentation

3.39.2.1 EMRSAVEDC() [1/2] EMF::EMRSAVEDC::EMRSAVEDC (void) [inline]

Create a Save DC record.

3.39.2.2 EMRSAVEDC() [2/2] EMF::EMRSAVEDC::EMRSAVEDC (DATASTREAM & *ds*) [inline]

Construct an Savedc record from the input stream.

Parameters

ds	Metafile datastream.

3.39.3 Member Function Documentation

3.39.3.1 execute() `void EMF::EMRSAVEDC::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.39.3.2 serialize() `bool EMF::EMRSAVEDC::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.39.3.3 size() `int EMF::EMRSAVEDC::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

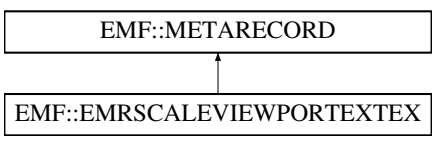
- libemf.h

3.40 EMF::EMRSCALEVIEWPORTEXTEX Class Reference

EMF Scale Viewport Extents (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSCALEVIEWPORTEXTEX:



Public Member Functions

- EMRSCALEVIEWPORTEXTEX (LONG x_num, LONG x_den, LONG y_num, LONG y_den)
- EMRSCALEVIEWPORTEXTEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.40.1 Detailed Description

EMF Scale Viewport Extents (ex)

The viewport extent is the device coordinate (i.e. pixels) size of the viewport. Scale the viewport extents by the ratios of the given values. (OpenOffice accepts this, but not SETVIEWPORTEXT(?))

3.40.2 Constructor & Destructor Documentation

3.40.2.1 EMRSCALEVIEWPORTEXTEX() [1/2]

```
EMF::EMRSCALEVIEWPORTEXTEX::EMRSCALEVIEWPORTEXTEX (
        LONG x_num,
        LONG x_den,
        LONG y_num,
        LONG y_den ) [inline]
```

Parameters

x_num	numerator of x scale
x_den	denominator of x scale
y_num	numerator of y scale
y_den	denominator of y scale

3.40.2.2 EMRSCALEVIEWPORTEXTEX() [2/2]

```
EMF::EMRSCALEVIEWPORTEXTEX::EMRSCALEVIEWPORTEXTEX (
        DATASTREAM & ds ) [inline]
```

Construct a ScaleViewportExtEx record from the input stream.

Parameters

ds	Metafile datastream.

3.40.3 Member Function Documentation

3.40.3.1 execute()

```
void EMF::EMRSCALEVIEWPORTEXTEX::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.40.3.2 serialize()

```
bool EMF::EMRSCALEVIEWPORTEXTEX::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.40.3.3 size()

```
int EMF::EMRSCALEVIEWPORTEXTEX::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

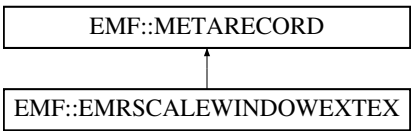
- libemf.h

3.41 EMF::EMRSCALEWINDOWEXTEX Class Reference

EMF Scale Window Extents (ex)

```
#include <libemf.h>
```

Inheritance diagram for EMF::EMRSCALEWINDOWEXTEX:



Public Member Functions

- EMRSCALEWINDOWEXTEX (LONG x_num, LONG x_den, LONG y_num, LONG y_den)
- EMRSCALEWINDOWEXTEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.41.1 Detailed Description

EMF Scale Window Extents (ex)

The window extent is the logical coordinate size of the window. Scale the window extents by the ratios of the given values.

3.41.2 Constructor & Destructor Documentation

3.41.2.1 EMRSCALEWINDOWEXTEX() [1/2]

```
EMF::EMRSCALEWINDOWEXTEX::EMRSCALEWINDOWEXTEX (
        LONG x_num,
        LONG x_den,
        LONG y_num,
        LONG y_den )  [inline]
```

Parameters

x_num	numerator of x scale
x_den	denominator of x scale
y_num	numerator of y scale
y_den	denominator of y scale

3.41.2.2 EMRSCALEWINDOWEXTEX() [2/2]

```
EMF::EMRSCALEWINDOWEXTEX::EMRSCALEWINDOWEXTEX (
        DATASTREAM & ds )  [inline]
```

Construct a ScaleWindowExtEx record from the input stream.

Parameters

ds	Metafile datastream.

3.41.3 Member Function Documentation

3.41.3.1 execute()

```
void EMF::EMRSCALEWINDOWEXTEX::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.41.3.2 serialize()

```
bool EMF::EMRSCALEWINDOWEXTEX::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.41.3.3 size()

```
int EMF::EMRSCALEWINDOWEXTEX::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

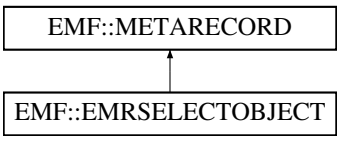
- libemf.h

3.42 EMF::EMRSELECTOBJECT Class Reference

EMF Select Object.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSELECTOBJECT:



Public Member Functions

- EMRSELECTOBJECT (HGDIOBJ object)
- EMRSELECTOBJECT (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.42.1 Detailed Description

EMF Select Object.

Activate (make current) the given object, such as a pen, brush or font.

3.42.2 Constructor & Destructor Documentation

3.42.2.1 EMRSELECTOBJECT() [1/2]

```
EMF::EMRSELECTOBJECT::EMRSELECTOBJECT (
        HGDIOBJ object ) [inline]
```

Parameters

object	the object to make active.

3.42.2.2 EMRSELECTOBJECT() [2/2]

```
EMF::EMRSELECTOBJECT::EMRSELECTOBJECT (
        DATASTREAM & ds ) [inline]
```

Construct a SelectObject record from the input stream.

Parameters

ds	Metafile datastream.

3.42.3 Member Function Documentation

3.42.3.1 execute()

```
void EMF::EMRSELECTOBJECT::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

References EMF::METAFILEDEVICECONTEXT::emf_handles.

3.42.3.2 serialize() `bool EMF::EMRSELECTOBJECT::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.42.3.3 size() `int EMF::EMRSELECTOBJECT::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

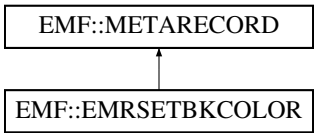
- libemf.h
- libemf.cpp

3.43 EMF::EMRSETBKCOLOR Class Reference

EMF Set Background Color.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETBKCOLOR:



Public Member Functions

- EMRSETBKCOLOR (COLORREF color)
- EMRSETBKCOLOR (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.43.1 Detailed Description

EMF Set Background Color.

Sets the background color.

3.43.2 Constructor & Destructor Documentation

3.43.2.1 EMRSETBKCOLOR() [1/2] EMF::EMRSETBKCOLOR::EMRSETBKCOLOR (COLORREF *color*) [inline]

Parameters

color	background color

3.43.2.2 EMRSETBKCOLOR() [2/2] EMF::EMRSETBKCOLOR::EMRSETBKCOLOR (DATASTREAM & *ds*) [inline]

Construct a SetBkColor record from the input datastream.

Parameters

ds	Metafile datastream.

3.43.3 Member Function Documentation

3.43.3.1 execute() void EMF::EMRSETBKCOLOR::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.43.3.2 serialize() `bool EMF::EMRSETBKCOLOR::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.43.3.3 size() `int EMF::EMRSETBKCOLOR::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

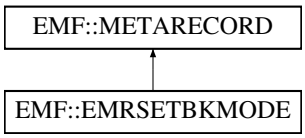
- libemf.h

3.44 EMF::EMRSETBKMODE Class Reference

EMF Set Background Mode.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETBKMODE:



Public Member Functions

- EMRSETBKMODE (DWORD mode)
- EMRSETBKMODE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.44.1 Detailed Description

EMF Set Background Mode.

Set the background mode: transparent or opaque. Seems to be ignored by StarOffice. (Appears to work for text, though.)

3.44.2 Constructor & Destructor Documentation

3.44.2.1 EMRSETBKMODE() [1/2] EMF::EMRSETBKMODE::EMRSETBKMODE (DWORD *mode*) [inline]

Parameters

mode	background mode.

3.44.2.2 EMRSETBKMODE() [2/2] EMF::EMRSETBKMODE::EMRSETBKMODE (DATASTREAM & *ds*) [inline]

Construct a SetBkMode record from the input datastream.

Parameters

ds	Metafile datastream.

3.44.3 Member Function Documentation

3.44.3.1 execute() void EMF::EMRSETBKMODE::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.44.3.2 serialize() `bool EMF::EMRSETBKMODE::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.44.3.3 size() `int EMF::EMRSETBKMODE::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

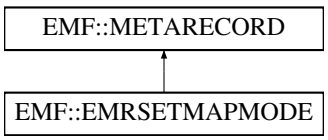
- libemf.h

3.45 EMF::EMRSETMAPMODE Class Reference

EMF Set Mapping Mode.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETMAPMODE:



Public Member Functions

- EMRSETMAPMODE (DWORD mode)
- EMRSETMAPMODE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.45.1 Detailed Description

EMF Set Mapping Mode.

Set the mapping mode: HI (X style), LO (OpenGL style). Totally ignored by StarOffice as near as I can tell.

3.45.2 Constructor & Destructor Documentation

3.45.2.1 EMRSETMAPMODE() [1/2] `EMF::EMRSETMAPMODE::EMRSETMAPMODE ( DWORD mode ) [inline]`

Parameters

mode	window mapping mode

3.45.2.2 EMRSETMAPMODE() [2/2] EMF::EMRSETMAPMODE::EMRSETMAPMODE (DATASTREAM & *ds*) [inline]

Construct a SetMapMode record from the input stream.

Parameters

ds	Metafile datastream.

3.45.3 Member Function Documentation

3.45.3.1 execute() void EMF::EMRSETMAPMODE::execute (METAFILEDEVICECONTEXT * *source*, HDC *dc*) const [inline], [virtual]

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.45.3.2 serialize() bool EMF::EMRSETMAPMODE::serialize (DATASTREAM *ds*) [inline], [virtual]

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.45.3.3 size() int EMF::EMRSETMAPMODE::size (void) const [inline], [virtual]

Internally computed size of this record.

Implements EMF::METARECORD.

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

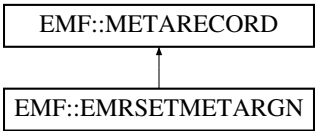
- libemf.h

3.46 EMF::EMRSETMETARGN Class Reference

EMF Set Meta Region.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETMETARGN:



Public Member Functions

- EMRSETMETARGN (void)
- EMRSETMETARGN (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.46.1 Detailed Description

EMF Set Meta Region.

I really have no idea.

3.46.2 Constructor & Destructor Documentation

3.46.2.1 EMRSETMETARGN() [1/2] EMF::EMRSETMETARGN::EMRSETMETARGN (void) [inline]

Create a Set Meta Rgn record.

3.46.2.2 EMRSETMETARGN() [2/2] EMF::EMRSETMETARGN::EMRSETMETARGN (DATASTREAM & *ds*) [inline]

Construct an Setmetargn record from the input stream.

Parameters

ds	Metafile datastream.

3.46.3 Member Function Documentation

3.46.3.1 execute()

```
void EMF::EMRSETMETARGN::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.46.3.2 serialize()

```
bool EMF::EMRSETMETARGN::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.46.3.3 size()

```
int EMF::EMRSETMETARGN::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

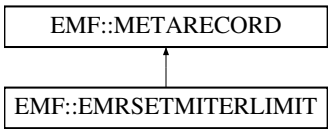
- libemf.h

3.47 EMF::EMRSETMITERLIMIT Class Reference

EMF SetMiterLimit.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETMITERLIMIT:



Public Member Functions

- EMRSETMITERLIMIT (FLOAT limit)
- EMRSETMITERLIMIT (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.47.1 Detailed Description

EMF SetMiterLimit.

Sets the length limit for miter joins.

3.47.2 Constructor & Destructor Documentation

3.47.2.1 EMRSETMITERLIMIT() [1/2] EMF::EMRSETMITERLIMIT::EMRSETMITERLIMIT (FLOAT *limit*) [inline]

Parameters

limit	miter length limit.

3.47.2.2 EMRSETMITERLIMIT() [2/2] EMF::EMRSETMITERLIMIT::EMRSETMITERLIMIT (DATASTREAM & *ds*) [inline]

Construct a SetMiterLimit record from the input stream.

Parameters

ds	Metafile datastream.

3.47.3 Member Function Documentation

3.47.3.1 execute()

```
void EMF::EMRSETMITERLIMIT::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.47.3.2 serialize()

```
bool EMF::EMRSETMITERLIMIT::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.47.3.3 size()

```
int EMF::EMRSETMITERLIMIT::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

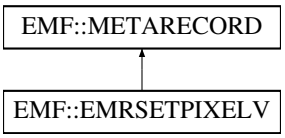
- libemf.h

3.48 EMF::EMRSETPIXELV Class Reference

EMF Set Pixel.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETPIXELV:



Public Member Functions

- EMRSETPIXELV (INT x, INT y, COLORREF color)
- EMRSETPIXELV (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.48.1 Detailed Description

EMF Set Pixel.

Set the given pixel to the given color.

3.48.2 Constructor & Destructor Documentation

3.48.2.1 EMRSETPIXELV() [1/2]

```
EMF::EMRSETPIXELV::EMRSETPIXELV (
        INT x,
        INT y,
        COLORREF color )  [inline]
```

Parameters

x	x position at which to draw pixel.
y	y position at which to draw pixel.
color	color of pixel.

3.48.2.2 EMRSETPIXELV() [2/2]

```
EMF::EMRSETPIXELV::EMRSETPIXELV (
        DATASTREAM & ds )  [inline]
```

Construct a SetPixelV record from the input stream.

Parameters

ds	Metafile datastream.

3.48.3 Member Function Documentation

3.48.3.1 execute()

```
void EMF::EMRSETPIXELV::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.48.3.2 serialize()

```
bool EMF::EMRSETPIXELV::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.48.3.3 size()

```
int EMF::EMRSETPIXELV::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

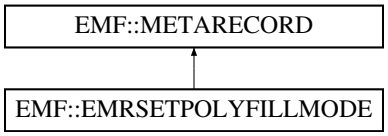
- libemf.h

3.49 EMF::EMRSETPOLYFILLMODE Class Reference

EMF Set the Polygon Fill Mode.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETPOLYFILLMODE:



Public Member Functions

- EMRSETPOLYFILLMODE (DWORD mode)
- EMRSETPOLYFILLMODE (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.49.1 Detailed Description

EMF Set the Polygon Fill Mode.

Set the polygon fill mode: ALTERNATE or WINDING

3.49.2 Constructor & Destructor Documentation

3.49.2.1 EMRSETPOLYFILLMODE() [1/2] EMF::EMRSETPOLYFILLMODE::EMRSETPOLYFILLMODE (DWORD *mode*) [inline]

Parameters

mode	background mode.

3.49.2.2 EMRSETPOLYFILLMODE() [2/2] EMF::EMRSETPOLYFILLMODE::EMRSETPOLYFILLMODE (DATASTREAM & *ds*) [inline]

Construct a SetPolyFillMode record from the input stream.

Parameters

ds	Metafile datastream.

3.49.3 Member Function Documentation

3.49.3.1 execute() `void EMF::EMRSETPOLYFILLMODE::execute (`

```
METAFILEDEVICECONTEXT * source,
HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.49.3.2 serialize() `bool EMF::EMRSETPOLYFILLMODE::serialize (`

```
DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.49.3.3 size() `int EMF::EMRSETPOLYFILLMODE::size (`

```
void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

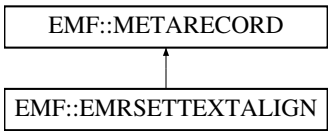
- libemf.h

3.50 EMF::EMRSETTEXTALIGN Class Reference

EMF Set Text Alignment.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETTEXTALIGN:



Public Member Functions

- EMRSETTEXTALIGN (UINT mode)
- EMRSETTEXTALIGN (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.50.1 Detailed Description

EMF Set Text Alignment.

Determines the justification of the text with respect to its position.

3.50.2 Constructor & Destructor Documentation

3.50.2.1 EMRSETTEXTALIGN() [1/2] EMF::EMRSETTEXTALIGN::EMRSETTEXTALIGN (UINT *mode*) [inline]

Parameters

mode	text alignment mode.

3.50.2.2 EMRSETTEXTALIGN() [2/2] EMF::EMRSETTEXTALIGN::EMRSETTEXTALIGN (DATASTREAM & *ds*) [inline]

Construct a SetTextAlign record from the input datastream.

Parameters

ds	Metafile datastream.

3.50.3 Member Function Documentation

3.50.3.1 execute() `void EMF::EMRSETTEXTALIGN::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.50.3.2 serialize() `bool EMF::EMRSETTEXTALIGN::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.50.3.3 size() `int EMF::EMRSETTEXTALIGN::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

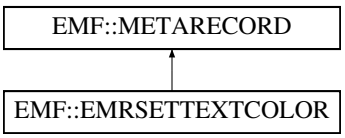
- libemf.h

3.51 EMF::EMRSETTEXTCOLOR Class Reference

EMF Set Text Color.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETTEXTCOLOR:



Public Member Functions

- EMRSETTEXTCOLOR (COLORREF color)
- EMRSETTEXTCOLOR (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.51.1 Detailed Description

EMF Set Text Color.

Sets the foreground color of text.

3.51.2 Constructor & Destructor Documentation

3.51.2.1 EMRSETTEXTCOLOR() [1/2] EMF::EMRSETTEXTCOLOR::EMRSETTEXTCOLOR (COLORREF *color*) [inline]

Parameters

color	text foreground color

3.51.2.2 EMRSETTEXTCOLOR() [2/2] EMF::EMRSETTEXTCOLOR::EMRSETTEXTCOLOR (DATASTREAM & *ds*) [inline]

Construct a SetTextColor record from the input stream.

Parameters

ds	Metafile datastream.

3.51.3 Member Function Documentation

3.51.3.1 execute() `void EMF::EMRSETTEXTCOLOR::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.51.3.2 serialize() `bool EMF::EMRSETTEXTCOLOR::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.51.3.3 size() `int EMF::EMRSETTEXTCOLOR::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

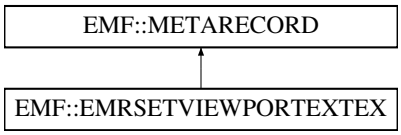
- libemf.h

3.52 EMF::EMRSETVIEWPORTEXTEX Class Reference

EMF Set Viewport Extents (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETVIEWPORTEXTEX:



Public Member Functions

- EMRSETVIEWPORTEXTEX (INT cx, INT cy)
- EMRSETVIEWPORTEXTEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.52.1 Detailed Description

EMF Set Viewport Extents (ex)

The viewport extent is the device coordinate (i.e. pixels) size of the viewport. Since W32 doesn't do any clipping, the purpose of this is not clear.

3.52.2 Constructor & Destructor Documentation

3.52.2.1 EMRSETVIEWPORTEXTEX() [1/2]

```
EMF::EMRSETVIEWPORTEXTEX::EMRSETVIEWPORTEXTEX (
        INT cx,
        INT cy )  [inline]
```

Parameters

cx	width of viewport in device coordinates
cy	height of viewport in device coordinates

3.52.2.2 EMRSETVIEWPORTEXTEX() [2/2]

```
EMF::EMRSETVIEWPORTEXTEX::EMRSETVIEWPORTEXTEX (
        DATASTREAM & ds )  [inline]
```

Construct a SetViewportExtEx record from the input stream.

Parameters

ds	Metafile datastream.

3.52.3 Member Function Documentation

3.52.3.1 execute() `void EMF::EMRSETVIEWPORTEXTEX::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.52.3.2 serialize() `bool EMF::EMRSETVIEWPORTEXTEX::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.52.3.3 size() `int EMF::EMRSETVIEWPORTEXTEX::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

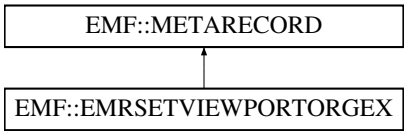
- libemf.h

3.53 EMF::EMRSETVIEWPORTORGEX Class Reference

EMF Set Viewport Origin (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETVIEWPORTORGEX:



Public Member Functions

- EMRSETVIEWPORTORGEX (INT x, INT y)
- EMRSETVIEWPORTORGEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.53.1 Detailed Description

EMF Set Viewport Origin (ex)

The viewport origin is a point in device coordinates (i.e., pixels) where the viewport starts. (For example, if you want to put several different views on the same page, you might use different viewports.)

3.53.2 Constructor & Destructor Documentation

3.53.2.1 EMRSETVIEWPORTORGEX() [1/2]

```
EMF::EMRSETVIEWPORTORGEX::EMRSETVIEWPORTORGEX (
        INT x,
        INT y )  [inline]
```

Parameters

x	x position of the viewport in device coordinates
y	y position of the viewport in device coordinates

3.53.2.2 EMRSETVIEWPORTORGEX() [2/2]

```
EMF::EMRSETVIEWPORTORGEX::EMRSETVIEWPORTORGEX (
        DATASTREAM & ds )  [inline]
```

Construct a SetVieportOrgEx record from the input stream.

Parameters

ds	Metafile datastream.

3.53.3 Member Function Documentation

3.53.3.1 execute() `void EMF::EMRSETVIEWPORTORGEX::execute (`

```
METAFILEDEVICECONTEXT * source,
HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.53.3.2 serialize() `bool EMF::EMRSETVIEWPORTORGEX::serialize (`

```
DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.53.3.3 size() `int EMF::EMRSETVIEWPORTORGEX::size (`

```
void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

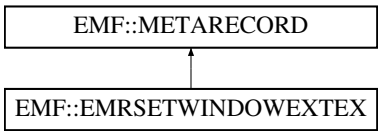
- libemf.h

3.54 EMF::EMRSETWINDOWEXTEX Class Reference

EMF Set Window Extent (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETWINDOWEXTEX:



Public Member Functions

- EMRSETWINDOWEXTEX (INT cx, INT cy)
- EMRSETWINDOWEXTEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.54.1 Detailed Description

EMF Set Window Extent (ex)

The window extents define the scale of the logical coordinates. For example, if your XY plot is from [-10,-10] to [10,10], then the window extents are [20,20].

3.54.2 Constructor & Destructor Documentation

3.54.2.1 EMRSETWINDOWEXTEX() [1/2] EMF::EMRSETWINDOWEXTEX::EMRSETWINDOWEXTEX (INT *cx*, INT *cy*) [inline]

Parameters

cx	width of window in logical coordinates.
cy	height of window in logical coordinates.

3.54.2.2 EMRSETWINDOWEXTEX() [2/2] EMF::EMRSETWINDOWEXTEX::EMRSETWINDOWEXTEX (DATASTREAM & *ds*) [inline]

Construct a SetWindowExtEx record from the input stream.

Parameters

ds	Metafile datastream.

3.54.3 Member Function Documentation

3.54.3.1 execute() `void EMF::EMRSETWINDOWEXTEX::execute ( METAFILEDEVICECONTEXT * source, HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.54.3.2 serialize() `bool EMF::EMRSETWINDOWEXTEX::serialize ( DATASTREAM ds ) [inline], [virtual]`

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.54.3.3 size() `int EMF::EMRSETWINDOWEXTEX::size ( void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

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

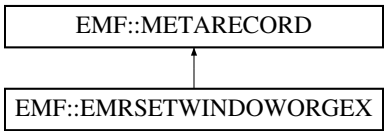
- libemf.h

3.55 EMF::EMRSETWINDOWORGEX Class Reference

EMF Set Window Origin (ex)

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETWINDOWORGEX:



Public Member Functions

- EMRSETWINDOWORGEX (INT x, INT y)
- EMRSETWINDOWORGEX (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.55.1 Detailed Description

EMF Set Window Origin (ex)

The window origin specifies the logical (i.e., real) coordinates of the upper, left corner of the viewport. (For example, if you want your XY plot's axis origin to be in the middle of the viewport, you'd set the window origin to something like [-1,-1].)

3.55.2 Constructor & Destructor Documentation

3.55.2.1 EMRSETWINDOWORGEX() [1/2] EMF::EMRSETWINDOWORGEX::EMRSETWINDOWORGEX (INT *x*, INT *y*) [inline]

Parameters

x	x coordinate of window origin in logical coordinates
y	y coordinate of window origin in logical coordinates

3.55.2.2 EMRSETWINDOWORGEX() [2/2] EMF::EMRSETWINDOWORGEX::EMRSETWINDOWORGEX (DATASTREAM & *ds*) [inline]

Construct a SetWindowOrgEx record from the input stream.

Parameters

ds	Metafile datastream.

3.55.3 Member Function Documentation

3.55.3.1 execute()

```
void EMF::EMRSETWINDOWORGEX::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.55.3.2 serialize()

```
bool EMF::EMRSETWINDOWORGEX::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.55.3.3 size()

```
int EMF::EMRSETWINDOWORGEX::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

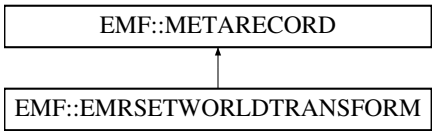
- libemf.h

3.56 EMF::EMRSETWORLDTRANSFORM Class Reference

EMF Set World Transform.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSETWORLDTRANSFORM:



Public Member Functions

- EMRSETWORLDTRANSFORM (const XFORM *transform)
- EMRSETWORLDTRANSFORM (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.56.1 Detailed Description

EMF Set World Transform.

Enhanced metafiles have a Coordinate Transformation which allows the contents to be rotated and transformed. Does not appear to work properly in StarOffice (but it's also possible I don't understand how it's supposed to work either).

3.56.2 Constructor & Destructor Documentation

3.56.2.1 EMRSETWORLDTRANSFORM() [1/2] EMF::EMRSETWORLDTRANSFORM::EMRSETWORLDTRANSFORM (const XFORM * *transform*) [inline]

Parameters

transform	the new transformation

3.56.2.2 EMRSETWORLDTRANSFORM() [2/2] EMF::EMRSETWORLDTRANSFORM::EMRSETWORLDTRANSFORM (DATASTREAM & *ds*) [inline]

Construct a SetWorldTransform record from the input stream.

Parameters

ds	Metafile datastream.

3.56.3 Member Function Documentation

3.56.3.1 execute()

```
void EMF::EMRSETWORLDTRANSFORM::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.56.3.2 serialize()

```
bool EMF::EMRSETWORLDTRANSFORM::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.56.3.3 size()

```
int EMF::EMRSETWORLDTRANSFORM::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

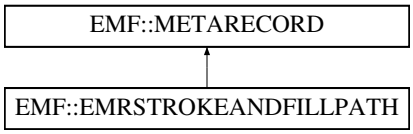
- libemf.h

3.57 EMF::EMRSTROKEANDFILLPATH Class Reference

EMF Stroke and Fill path.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSTROKEANDFILLPATH:



Public Member Functions

- EMRSTROKEANDFILLPATH (const RECTL *bounds)
- EMRSTROKEANDFILLPATH (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.57.1 Detailed Description

EMF Stroke and Fill path.

Stroke and Fill the path.

3.57.2 Constructor & Destructor Documentation

3.57.2.1 EMRSTROKEANDFILLPATH() [1/2] EMF::EMRSTROKEANDFILLPATH::EMRSTROKEANDFILLPATH (const RECTL * *bounds*) [inline]

Parameters

bounds	overall bounding box of polygon.

3.57.2.2 EMRSTROKEANDFILLPATH() [2/2] EMF::EMRSTROKEANDFILLPATH::EMRSTROKEANDFILLPATH (DATASTREAM & *ds*) [inline]

Create a StrokeandfillPath record from input stream.

Parameters

ds	Metafile datastream.

3.57.3 Member Function Documentation

3.57.3.1 execute()

```
void EMF::EMRSTROKEANDFILLPATH::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.57.3.2 serialize()

```
bool EMF::EMRSTROKEANDFILLPATH::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.57.3.3 size()

```
int EMF::EMRSTROKEANDFILLPATH::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

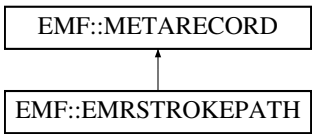
- libemf.h

3.58 EMF::EMRSTROKEPATH Class Reference

EMF Stroke path.

`#include <libemf.h>`

Inheritance diagram for EMF::EMRSTROKEPATH:



Public Member Functions

- EMRSTROKEPATH (const RECTL *bounds)
- EMRSTROKEPATH (DATASTREAM &ds)
- bool serialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.58.1 Detailed Description

EMF Stroke path.

Stroke the path.

3.58.2 Constructor & Destructor Documentation

3.58.2.1 EMRSTROKEPATH() [1/2] EMF::EMRSTROKEPATH::EMRSTROKEPATH (const RECTL * *bounds*) [inline]

Parameters

bounds	overall bounding box of polygon.

3.58.2.2 EMRSTROKEPATH() [2/2] EMF::EMRSTROKEPATH::EMRSTROKEPATH (DATASTREAM & *ds*) [inline]

Create a StrokePath record from input stream.

Parameters

ds	Metafile datastream.

3.58.3 Member Function Documentation

3.58.3.1 execute()

```
void EMF::EMRSTROKEPATH::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [inline], [virtual]
```

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.58.3.2 serialize()

```
bool EMF::EMRSTROKEPATH::serialize (
        DATASTREAM ds )  [inline], [virtual]
```

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.58.3.3 size()

```
int EMF::EMRSTROKEPATH::size (
        void  ) const  [inline], [virtual]
```

Internally computed size of this record.

Implements EMF::METARECORD.

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

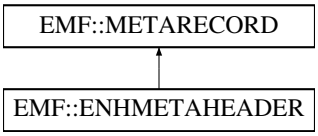
- libemf.h

3.59 EMF::ENHMETAHEADER Class Reference

Enhanced Metafile Header Record.

`#include <libemf.h>`

Inheritance diagram for EMF::ENHMETAHEADER:



Public Member Functions

- ENHMETAHEADER (LPCWSTR description=0)
- ~ENHMETAHEADER ()
- bool serialize (DATASTREAM ds)
- bool unserialize (DATASTREAM ds)
- int size (void) const
- void execute (METAFILEDEVICECONTEXT *source, HDC dc) const

3.59.1 Detailed Description

Enhanced Metafile Header Record.

The ENHMETAHEADER serves two purposes in this library: it keeps track of the size of the metafile (in physical dimensions) and number of records and handles that are ultimately to be written to the disk file. It is also a real record that must be written out.

3.59.2 Constructor & Destructor Documentation

3.59.2.1 ENHMETAHEADER() `EMF::ENHMETAHEADER::ENHMETAHEADER ( LPCWSTR description = 0 ) [inline]`

Parameters

description	an optional description argument is a UNICODE-like string with the following format: "some text\0some more text\0\0". The W32 interface defines UNICODE characters to be two-byte (unsigned short strings). The constructor makes a copy of the argument.

3.59.2.2 ~ENHMETAHEADER() `EMF::ENHMETAHEADER::~ENHMETAHEADER ( ) [inline]`

Destructor deletes memory allocated for description.

3.59.3 Member Function Documentation

3.59.3.1 execute() `void EMF::ENHMETAHEADER::execute (`

`METAFILEDEVICECONTEXT * source,`
`HDC dc ) const [inline], [virtual]`

Execute this record in the context of the given device context.

Parameters

source	the device context from which this record is taken.
dc	device context for execute.

Implements EMF::METARECORD.

3.59.3.2 serialize() `bool EMF::ENHMETAHEADER::serialize (`

`DATASTREAM ds ) [inline], [virtual]`

Serializing the header is an example of an extended record.

Parameters

ds	Metafile datastream.

Implements EMF::METARECORD.

3.59.3.3 size() `int EMF::ENHMETAHEADER::size (`

`void ) const [inline], [virtual]`

Internally computed size of this record.

Implements EMF::METARECORD.

3.59.3.4 unserialize() `bool EMF::ENHMETAHEADER::unserialize (`

`DATASTREAM ds ) [inline]`

Read a header record from the datastream.

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

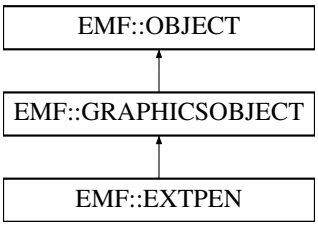
- libemf.h

3.60 EMF::EXTPEN Class Reference

Extended Graphics Pen.

`#include <libemf.h>`

Inheritance diagram for EMF::EXTPEN:



Public Member Functions

- EXTPEN (const EXTLOGPEN ∗lpen)
- OBJECTTYPE getType (void) const
- METARECORD ∗ newEMR (HDC dc, HGDIOBJ emf_handle)

Additional Inherited Members

3.60.1 Detailed Description

Extended Graphics Pen.

Pens are used for drawing lines, arc, rectangles, etc.

3.60.2 Constructor & Destructor Documentation

3.60.2.1 EXTPEN() `EMF::EXTPEN::EXTPEN ( const EXTLOGPEN * lpen ) [inline]`

Parameters

lpen	the (logical?) pen definition.

3.60.3 Member Function Documentation

3.60.3.1 getType() OBJECTTYPE EMF::EXTPEN::getType (void) const [inline], [virtual]

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.60.3.2 newEMR() METARECORD* EMF::EXTPEN::newEMR (HDC *dc*, HGDIOBJ *emf_handle*) [inline], [virtual]

Return a new metarecord for this object. And record its selection into the given device context.

Parameters

dc	handle of device context into which this object is being selected.
emf_handle	the EMF handle associated with the PEN.

Implements EMF::GRAPHICSOBJECT.

References EMF::GRAPHICSOBJECT::contexts.

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

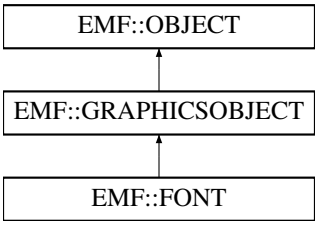
- libemf.h

3.61 EMF::FONT Class Reference

Graphics Font.

`#include <libemf.h>`

Inheritance diagram for EMF::FONT:



Public Member Functions

- FONT (const LOGFONTW *lfont)
- OBJECTTYPE getType (void) const
- METARECORD * newEMR (HDC dc, HGDIOBJ emf_handle)

Additional Inherited Members

3.61.1 Detailed Description

Graphics Font.

Fonts are used for drawing text (obviously).

3.61.2 Constructor & Destructor Documentation

3.61.2.1 FONT() `EMF::FONT::FONT (`

```
const LOGFONTW * lfont )  [inline]
```

Parameters

lfont	the (logical?) font definition.

3.61.3 Member Function Documentation

3.61.3.1 getType() `OBJECTTYPE EMF::FONT::getType (`

```
void  ) const  [inline], [virtual]
```

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.61.3.2 newEMR() `METARECORD* EMF::FONT::newEMR (`

```
HDC dc,
HGDIOBJ emf_handle )  [inline], [virtual]
```

Return a new metarecord for this object. And record its selection into the given device context.

Parameters

dc	handle of device context into which this object is being selected.
emf_handle	the EMF handle associated with the FONT.

Implements EMF::GRAPHICSOBJECT.

References EMF::GRAPHICSOBJECT::contexts.

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

- libemf.h

3.62 EMF::GLOBALOBJECTS Class Reference

`#include <libemf.h>`

Public Member Functions

- HGDIOBJ add (OBJECT *object)
- OBJECT * find (const HGDIOBJ handle)
- void remove (const OBJECT *object)
- auto begin (void) const
- auto end (void) const
- METARECORDCTOR newRecord (DWORD iType) const

Static Public Member Functions

- static EMF::METARECORD * new_eof (DATASTREAM &ds)
  Create a new EMREOF record.
- static EMF::METARECORD * new_setviewportorgex (DATASTREAM &ds)
  Create a new EMRSETVIEWPORTORGEX record.
- static EMF::METARECORD * new_setwindoworgex (DATASTREAM &ds)
  Create a new EMRSETWINDOWORGEX record.
- static EMF::METARECORD * new_setviewportextex (DATASTREAM &ds)
  Create a new EMRSETVIEWPORTEXTEX record.
- static EMF::METARECORD * new_setwindowextex (DATASTREAM &ds)
  Create a new EMRSETWINDOWEXTEX record.
- static EMF::METARECORD * new_scaleviewportextex (DATASTREAM &ds)
  Create a new SCALEVIEWPORTEXTEX record.
- static EMF::METARECORD * new_scalewindowextex (DATASTREAM &ds)
  Create a new SCALEWINDOWEXTEX record.
- static EMF::METARECORD * new_modifyworldtransform (DATASTREAM &ds)
  Create a new MODIFYWORLDTRANSFORM record.
- static EMF::METARECORD * new_setworldtransform (DATASTREAM &ds)
  Create a new SETWORLDTRANSFORM record.
- static EMF::METARECORD * new_settextalign (DATASTREAM &ds)
  Create a new SETTEXTALIGN record.
- static EMF::METARECORD * new_settextcolor (DATASTREAM &ds)
  Create a new SETTEXTCOLOR record.
- static EMF::METARECORD * new_setbkcolor (DATASTREAM &ds)
  Create a new SETBKCOLOR record.
- static EMF::METARECORD * new_setbkmode (DATASTREAM &ds)
  Create a new SETBKMODE record.
- static EMF::METARECORD * new_setpolyfillmode (DATASTREAM &ds)
  Create a new SETPOLYFILLMODE record.
- static EMF::METARECORD * new_setmapmode (DATASTREAM &ds)
  Create a new SETMAPMODE record.

- static EMF::METARECORD * new_selectobject (DATASTREAM &ds)
  Create a new SELECTOBJECT record.
- static EMF::METARECORD * new_deleteobject (DATASTREAM &ds)
  Create a new DELETEOBJECT record.
- static EMF::METARECORD * new_movetoex (DATASTREAM &ds)
  Create a new MOVETOEX record.
- static EMF::METARECORD * new_lineto (DATASTREAM &ds)
  Create a new LINETO record.
- static EMF::METARECORD * new_arc (DATASTREAM &ds)
  Create a new ARC record.
- static EMF::METARECORD * new_arcto (DATASTREAM &ds)
  Create a new ARCTO record.
- static EMF::METARECORD * new_rectangle (DATASTREAM &ds)
  Create a new RECTANGLE record.
- static EMF::METARECORD * new_ellipse (DATASTREAM &ds)
  Create a new ELLIPSE record.
- static EMF::METARECORD * new_polyline (DATASTREAM &ds)
  Create a new POLYLINE record.
- static EMF::METARECORD * new_polyline16 (DATASTREAM &ds)
  Create a new POLYLINE16 record.
- static EMF::METARECORD * new_polygon (DATASTREAM &ds)
  Create a new POLYGON record.
- static EMF::METARECORD * new_polygon16 (DATASTREAM &ds)
  Create a new POLYGON16 record.
- static EMF::METARECORD * new_polypolygon (DATASTREAM &ds)
  Create a new POLYPOLYGON record.
- static EMF::METARECORD * new_polypolygon16 (DATASTREAM &ds)
  Create a new POLYPOLYGON16 record.
- static EMF::METARECORD * new_polybezier (DATASTREAM &ds)
  Create a new POLYBEZIER record.
- static EMF::METARECORD * new_polybezier16 (DATASTREAM &ds)
  Create a new POLYBEZIER16 record.
- static EMF::METARECORD * new_polybezierto (DATASTREAM &ds)
  Create a new POLYBEZIERTO record.
- static EMF::METARECORD * new_polybezierto16 (DATASTREAM &ds)
  Create a new POLYBEZIERTO16 record.
- static EMF::METARECORD * new_polylineto (DATASTREAM &ds)
  Create a new POLYLINETO record.
- static EMF::METARECORD * new_polylineto16 (DATASTREAM &ds)
  Create a new POLYLINETO16 record.
- static EMF::METARECORD * new_exttextouta (DATASTREAM &ds)
  Create a new EXTTEXTOUTA record.
- static EMF::METARECORD * new_exttextoutw (DATASTREAM &ds)
  Create a new EXTTEXTOUTW record.
- static EMF::METARECORD * new_setpixelv (DATASTREAM &ds)
  Create a new SETPIXELV record.
- static EMF::METARECORD * new_createpen (DATASTREAM &ds)
  Create a new CREATEPEN record.
- static EMF::METARECORD * new_extcreatepen (DATASTREAM &ds)
  Create a new EXTCREATEPEN record.
- static EMF::METARECORD * new_createbrushindirect (DATASTREAM &ds)

Create a new CREATEBRUSHINDIRECT record.

- static EMF::METARECORD * new_extcreatefontindirectw (DATASTREAM &ds)

  Create a new EXTCREATEFONTINDIRECTW record.
- static EMF::METARECORD * new_fillpath (DATASTREAM &ds)

  Create a new FILLPATH record.
- static EMF::METARECORD * new_strokepath (DATASTREAM &ds)

  Create a new STROKEPATH record.
- static EMF::METARECORD * new_strokeandfillpath (DATASTREAM &ds)

  Create a new STROKEANDFILLPATH record.
- static EMF::METARECORD * new_beginpath (DATASTREAM &ds)

  Create a new BEGINPATH record.
- static EMF::METARECORD * new_endpath (DATASTREAM &ds)

  Create a new ENDPATH record.
- static EMF::METARECORD * new_closefigure (DATASTREAM &ds)

  Create a new CLOSEFIGURE record.
- static EMF::METARECORD * new_savedc (DATASTREAM &ds)

  Create a new SAVEDC record.
- static EMF::METARECORD * new_restoredc (DATASTREAM &ds)

  Create a new RESTOREDC record.
- static EMF::METARECORD * new_setmetargn (DATASTREAM &ds)

  Create a new SETMETARGN record.
- static EMF::METARECORD * new_setmiterlimit (DATASTREAM &ds)

  Create a new SETMITERLIMIT record.

3.62.1 Detailed Description

Stores all the objects in a single database within a process.

3.62.2 Member Function Documentation

3.62.2.1 add() `HGDIOBJ EMF::GLOBALOBJECTS::add ( OBJECT * object )`

Add an object to the global vector. The object's handle is simply its index in the global object vector, which is computed by the very interesting "difference between two iterators" method.

Parameters

object	pointer to a real instance of an object, not its handle.

3.62.2.2 begin() `auto EMF::GLOBALOBJECTS::begin ( void ) const [inline]`

Returns

an iterator pointing to the first global object.

3.62.2.3 end() `auto EMF::GLOBALOBJECTS::end ( void ) const [inline]`

Returns

an iterator pointing to (one past) the final global object.

3.62.2.4 find() `OBJECT * EMF::GLOBALOBJECTS::find ( const HGDIOBJ handle )`

Look up a object by handle in the global object vector. Note: Stock objects (like a gray brush or the black pen) have their high order bit set, so this has to be masked out when using their handles.

Parameters

handle	the object's handle.

Returns

pointer to object.

3.62.2.5 newRecord() `METARECORDCTOR EMF::GLOBALOBJECTS::newRecord ( DWORD iType ) const`

See if we have a constructor for a record of the given type.

Parameters

iType	metarecord type.

Returns

pointer to "virtual" constructor.

3.62.2.6 remove() `void EMF::GLOBALOBJECTS::remove ( const OBJECT * object )`

A call to the metafile function DeleteObject() allows a particular object's handle to be reused, so some care has to be taken to erase it.

Parameters

object	pointer to object to delete.

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

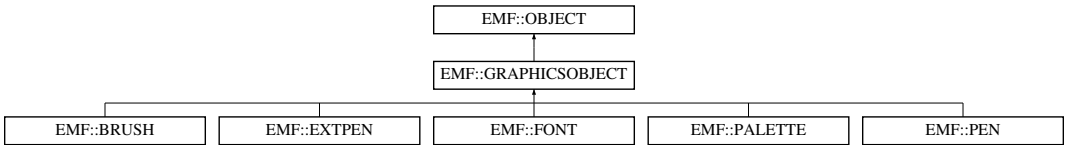
- libemf.h
- libemf.cpp

3.63 EMF::GRAPHICSOBJECT Class Reference

A global graphics object.

`#include <libemf.h>`

Inheritance diagram for EMF::GRAPHICSOBJECT:



Public Member Functions

- virtual ~GRAPHICSOBJECT ()

  GRAPHICSOBJECTs has a virtual destructor.
- virtual METARECORD * newEMR (HDC dc, HGDIOBJ handle)=0

Data Fields

- std::map< HDC, HGDIOBJ > contexts

3.63.1 Detailed Description

A global graphics object.

Graphics objects have some additional properties: When an object is Select'ed into a device context, the handle for that context is added to the list of context's in which this object is used.

3.63.2 Member Function Documentation

3.63.2.1 newEMR()

```
virtual METARECORD* EMF::GRAPHICSOBJECT::newEMR (
        HDC dc,
        HGDIOBJ handle )  [pure virtual]
```

Create a new metarecord which describes this object.

Parameters

dc	the handle to the device context.
handle	(appears not to used. Note the handle is really assigned at serialization time.)

Implemented in EMF::PALETTE, EMF::FONT, EMF::BRUSH, EMF::EXTPEN, and EMF::PEN.

3.63.3 Field Documentation

3.63.3.1 contexts `std::map< HDC, HGDIOBJ > EMF::GRAPHICSOBJECT::contexts`

A set of all the contexts into which this object has been selected and the associated metafile handle for the object.

Referenced by EMF::PEN::newEMR(), EMF::EXTPEN::newEMR(), EMF::BRUSH::newEMR(), EMF::FONT::new↩EMR(), and EMF::PALETTE::newEMR().

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

- libemf.h

3.64 EMF::INTARRAY Struct Reference

Represent an array of integers in a simple way.

`#include <libemf.h>`

Public Member Functions

- INTARRAY (INT *const ints, const DWORD n)

Data Fields

- INT *const ints_
  Array of ints.
- const DWORD n_
  Number of ints in array.

3.64.1 Detailed Description

Represent an array of integers in a simple way.

Allow an array of INT's to be written out at once.

3.64.2 Constructor & Destructor Documentation

3.64.2.1 INTARRAY() `EMF::INTARRAY::INTARRAY ( INT *const ints, const DWORD n ) [inline]`

simple constructor.

Parameters

ints	pointer to ints.
n	number ints in array.

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

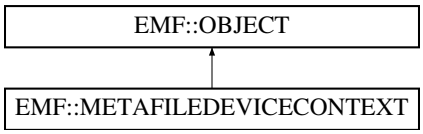
- libemf.h

3.65 EMF::METAFILEDEVICECONTEXT Class Reference

Graphics Device Context.

`#include <libemf.h>`

Inheritance diagram for EMF::METAFILEDEVICECONTEXT:



Public Member Functions

- METAFILEDEVICECONTEXT (FILE *fp_, const RECT *size, LPCWSTR description_w)
- virtual ~METAFILEDEVICECONTEXT ()
- OBJECTTYPE getType (void) const
- DWORD nextHandle (void)
- void clearHandle (DWORD handle)
- void appendRecord (METARECORD *record)
- void appendHandle (METARECORD *record)
- void deleteMetafile (void)
- void mergePoint (const LONG &x, const LONG &y)
- void mergePoint (const POINT &p)

Data Fields

- ::FILE * fp
- DATASTREAM ds
- ENHMETAHEADER * header
- std::vector< EMF::METARECORD * > records
- SIZEL resolution

  The resolution in DPI of the reference DC.
- SIZEL viewport_ext

  The extent of the viewport.
- POINT viewport_org

  The origin of the viewport.
- SIZEL window_ext

The extent of the window.

- POINT window_org

  The origin of the window.
- bool update_frame

  Update the frame automatically?
- POINT min_device_point

  The lft/top-most painted point in device units.
- POINT max_device_point

  The rgt/btm-most painted point in device units.
- POINT point

  The current point.
- PEN * pen

  The current pen.
- BRUSH * brush

  The current brush.
- FONT * font

  The current font.
- PALETTE * palette

  The current palette.
- UINT text_alignment

  The current text alignment.
- COLORREF text_color

  The current text foreground color.
- COLORREF bk_color

  The current background color.
- INT bk_mode

  The current background mode.
- INT polyfill_mode

  The current polygon fill mode.
- INT map_mode

  The current mapping mode.
- FLOAT miter_limit

  The current miter length limit.
- std::vector< bool > handles
- std::map< HGDIOBJ, HGDIOBJ > emf_handles

3.65.1 Detailed Description

Graphics Device Context.

Almost all GDI graphics calls require a device context (except those which create graphics objects such as pens and fonts). This is a specific context which renders to a metafile. There is a one-to-one correspondence between the device context and the metafile.

3.65.2 Constructor & Destructor Documentation

3.65.2.1 METAFILEDEVICECONTEXT() EMF::METAFILEDEVICECONTEXT::METAFILEDEVICECONTEXT (

```
FILE * fp_,
const RECT * size,
LPCWSTR description_w )  [inline]
```

Most graphics programs seem to want to handle the opening and closing of files themselves, so this is an extension to the w32 interface.

Parameters

*fp_*	stdio pointer to an open file. May be null.
size	the rectangle describing the position and size of the metafile on the "page". May be null.
description_w	a UNICODE string describing the metafile. The format must be "some text\0some more text\0\0". May be null.

3.65.2.2 ~METAFILEDEVICECONTEXT() `virtual EMF::METAFILEDEVICECONTEXT::~METAFILEDEVICECONTEXT ( ) [inline], [virtual]`

Destructor frees all the graphics objects which may have been allocated. Now, it also frees any metarecords which it might hold, too.

References deleteMetafile(), and records.

3.65.3 Member Function Documentation

3.65.3.1 appendHandle() `void EMF::METAFILEDEVICECONTEXT::appendHandle ( METARECORD * record ) [inline]`

Add this record to the metafile.

Parameters

record	this record is an object so it increments the handle count as well.

References header, records, and EMF::METARECORD::size().

3.65.3.2 appendRecord() `void EMF::METAFILEDEVICECONTEXT::appendRecord ( METARECORD * record ) [inline]`

Add this record to the metafile.

Parameters

record	standard graphics record

References header, records, and EMF::METARECORD::size().

3.65.3.3 clearHandle() `void EMF::METAFILEDEVICECONTEXT::clearHandle ( DWORD handle ) [inline]`

Clear the usage of this handle

References EMF::OBJECT::handle, and handles.

3.65.3.4 deleteMetafile() `void EMF::METAFILEDEVICECONTEXT::deleteMetafile ( void ) [inline]`

Delete all the records from the metafile. This would seem to include deleting the header record as well.

References records.

Referenced by ~METAFILEDEVICECONTEXT().

3.65.3.5 getType() `OBJECTTYPE EMF::METAFILEDEVICECONTEXT::getType ( void ) const [inline], [virtual]`

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.65.3.6 mergePoint() [1/2] `void EMF::METAFILEDEVICECONTEXT::mergePoint ( const LONG & x, const LONG & y ) [inline]`

Somewhat superfluous, except checker doesn't understand the initialization of automatic structures in the declaration.

3.65.3.7 mergePoint() [2/2] `void EMF::METAFILEDEVICECONTEXT::mergePoint ( const POINT & p ) [inline]`

Take the given point and determine if it enlarges the "painted" area of the device.

References header, max_device_point, min_device_point, update_frame, viewport_ext, viewport_org, window_ext, and window_org.

3.65.3.8 nextHandle() `DWORD EMF::METAFILEDEVICECONTEXT::nextHandle ( void ) [inline]`

Scan the bit vector of used handles and return the index of the first free bit as this objects metafile handle.

References handles, and header.

3.65.4 Field Documentation

3.65.4.1 ds `DATASTREAM EMF::METAFILEDEVICECONTEXT::ds`

All i/o to the metafile is wrapped by this class so that byte swapping on big-endian machines is transparent.

3.65.4.2 emf_handles `std::map< HGDIOBJ, HGDIOBJ > EMF::METAFILEDEVICECONTEXT::emf_handles`

This map holds the *current* mapping between EMF handles and global object handles as a metafile is played back (with PlayEnhMetaFile).

Referenced by EMF::EMRSELECTOBJECT::execute(), EMF::EMRDELETEOBJECT::execute(), EMF::EMRCR↩EATEPEN::execute(), EMF::EMREXTCREATEPEN::execute(), EMF::EMRCREATEBRUSHINDIRECT::execute(), and EMF::EMREXTCREATEFONTINDIRECTW::execute().

3.65.4.3 fp `::FILE* EMF::METAFILEDEVICECONTEXT::fp`

If it is a file-based metafile, then this pointer is not null.

3.65.4.4 handles `std::vector< bool > EMF::METAFILEDEVICECONTEXT::handles`

For compatibility, it appears that metafile handles are reused as objects are deleted. Attempt to emulate that behavior with a bit vector of used metafile handles.

Referenced by clearHandle(), and nextHandle().

3.65.4.5 header `ENHMETAHEADER* EMF::METAFILEDEVICECONTEXT::header`

Serves double duty as the physical device description.

Referenced by appendHandle(), appendRecord(), mergePoint(), and nextHandle().

3.65.4.6 records `std::vector< EMF::METARECORD* > EMF::METAFILEDEVICECONTEXT::records`

All of the metafile records are stored in memory.

Referenced by appendHandle(), appendRecord(), deleteMetafile(), and ~METAFILEDEVICECONTEXT().

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

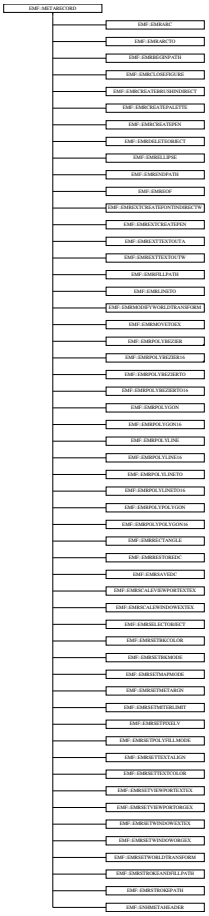
- libemf.h

3.66 EMF::METARECORD Class Reference

The base class of all metafile records.

`#include <libemf.h>`

Inheritance diagram for EMF::METARECORD:



Public Member Functions

- virtual void execute (METAFILEDEVICECONTEXT ∗source, HDC dc) const =0
- virtual bool serialize (DATASTREAM ds)=0
- virtual int size (void) const =0
- virtual ∼METARECORD ()

3.66.1 Detailed Description

The base class of all metafile records.

A metafile consists off a sequence of graphics records "executed" in order. This is a common base class that allows each, different, record to be stored in a common list. An interface is specified for each record to write itself to a file.

3.66.2 Constructor & Destructor Documentation

3.66.2.1 ~METARECORD() `virtual EMF::METARECORD::~METARECORD ( ) [inline], [virtual]`

The virtual destructor allows records which allocated additional memory to release it when they are deleted. Simple records just use the default destructor defined here.

3.66.3 Member Function Documentation

3.66.3.1 execute()

```
virtual void EMF::METARECORD::execute (
        METAFILEDEVICECONTEXT * source,
        HDC dc ) const  [pure virtual]
```

Execute the graphics command in the given context. Used by PlayEnhMetaFile to "copy" one metafile into another.

Parameters

source	the device context from which this record is taken.
dc	the destination context.

Implemented in EMF::EMRSETMITERLIMIT, EMF::EMRSETMETARGN, EMF::EMRRESTOREDC, EMF::EMRSAVEDC, EMF::EMRCLOSEFIGURE, EMF::EMRENDPATH, EMF::EMRBEGINPATH, EMF::EMRSTROKEANDFILLPATH, EMF::EMRSTROKEPATH, EMF::EMRFILLPATH, EMF::EMRCREATEPALETTE, EMF::EMREXTCREATEFONTINDIRECTW, EMF::EMRCREATEBRUSHINDIRECT, EMF::EMREXTCREATEPEN, EMF::EMRCREATEPEN, EMF::EMRSETPIXELV, EMF::EMREXTTEXTOUTW, EMF::EMREXTTEXTOUTA, EMF::EMRPOLYLINETO16, EMF::EMRPOLYLINETO, EMF::EMRPOLYBEZIERTO16, EMF::EMRPOLYBEZIERTO, EMF::EMRPOLYBEZIER16, EMF::EMRPOLYBEZIER, EMF::EMRPOLYPOLYGON16, EMF::EMRPOLYPOLYGON, EMF::EMRPOLYGON16, EMF::EMRPOLYGON, EMF::EMRPOLYLINE16, EMF::EMRPOLYLINE, EMF::EMRELLIPSE, EMF::EMRRECTANGLE, EMF::EMRARCTO, EMF::EMRARC, EMF::EMRLINETO, EMF::EMRMOVETOEX, EMF::EMRDELETEOBJECT, EMF::EMRSELECTOBJECT, EMF::EMRSETMAPMODE, EMF::EMRSETPOLYFILLMODE, EMF::EMRSETBKMODE, EMF::EMRSETBKCOLOR, EMF::EMRSETTEXTCOLOR, EMF::EMRSETTEXTALIGN, EMF::EMRSETWORLDTRANSFORM, EMF::EMRMODIFYWORLDTRAN EMF::EMRSCALEWINDOWEXTEX, EMF::EMRSETWINDOWEXTEX, EMF::EMRSCALEVIEWPORTEXTEX, EMF::EMRSETVIEWPORTEXTEX, EMF::EMRSETWINDOWORGEX, EMF::EMRSETVIEWPORTORGEX, EMF::EMREOF, and EMF::ENHMETAHEADER.

3.66.3.2 serialize()

```
virtual bool EMF::METARECORD::serialize (
        DATASTREAM ds )  [pure virtual]
```

Write yourself to the given file. This is virtual since some records are of arbitrary length and need to write additional information after their EMR structure.

Parameters

ds	the datastream to write oneself to.

Implemented in EMF::EMRSETMITERLIMIT, EMF::EMRSETMETARGN, EMF::EMRRESTOREDC, EMF::EMRSAVEDC, EMF::EMRCLOSEFIGURE, EMF::EMRENDPATH, EMF::EMRBEGINPATH, EMF::EMRSTROKEANDFILLPATH, EMF::EMRSTROKEPATH, EMF::EMRFILLPATH, EMF::EMRCREATEPALETTE, EMF::EMREXTCREATEFONTINDIRECTW, EMF::EMRCREATEBRUSHINDIRECT, EMF::EMREXTCREATEPEN, EMF::EMRCREATEPEN, EMF::EMRSETPIXELV, EMF::EMREXTTEXTOUTW, EMF::EMREXTTEXTOUTA, EMF::EMRPOLYLINETO16, EMF::EMRPOLYLINETO, EMF::EMRPOLYBEZIERTO16, EMF::EMRPOLYBEZIERTO, EMF::EMRPOLYBEZIER16, EMF::EMRPOLYBEZIER, EMF::EMRPOLYPOLYGON16, EMF::EMRPOLYPOLYGON, EMF::EMRPOLYGON16, EMF::EMRPOLYGON, EMF::EMRPOLYLINE16, EMF::EMRPOLYLINE, EMF::EMRELLIPSE, EMF::EMRRECTANGLE, EMF::EMRARCTO, EMF::EMRARC, EMF::EMRLINETO, EMF::EMRMOVETOEX, EMF::EMRDELETEOBJECT, EMF::EMRSELECTOBJECT, EMF::EMRSETMAPMODE, EMF::EMRSETPOLYFILLMODE, EMF::EMRSETBKMODE, EMF::EMRSETBKCOLOR, EMF::EMRSETTEXTCOLOR, EMF::EMRSETTEXTALIGN, EMF::EMRSETWORLDTRANSFORM, EMF::EMRMODIFYWORLDTRAN EMF::EMRSCALEWINDOWEXTEX, EMF::EMRSETWINDOWEXTEX, EMF::EMRSCALEVIEWPORTEXTEX, EMF::EMRSETVIEWPORTEXTEX, EMF::EMRSETWINDOWORGEX, EMF::EMRSETVIEWPORTORGEX, EMF::EMREOF, and EMF::ENHMETAHEADER.

3.66.3.3 size() `virtual int EMF::METARECORD::size ( void ) const [pure virtual]`

The header record of a metafile records the total size of the metafile in bytes, so as each record is added to the list, it updates the total size.

Implemented in EMF::EMRSETMITERLIMIT, EMF::EMRSETMETARGN, EMF::EMRRESTOREDC, EMF::EMRSAVEDC, EMF::EMRCLOSEFIGURE, EMF::EMRENDPATH, EMF::EMRBEGINPATH, EMF::EMRSTROKEANDFILLPATH, EMF::EMRSTROKEPATH, EMF::EMRFILLPATH, EMF::EMRCREATEPALETTE, EMF::EMREXTCREATEFONTINDIRECTW, EMF::EMRCREATEBRUSHINDIRECT, EMF::EMREXTCREATEPEN, EMF::EMRCREATEPEN, EMF::EMRSETPIXELV, EMF::EMREXTTEXTOUTW, EMF::EMREXTTEXTOUTA, EMF::EMRPOLYLINETO16, EMF::EMRPOLYLINETO, EMF::EMRPOLYBEZIERTO16, EMF::EMRPOLYBEZIERTO, EMF::EMRPOLYBEZIER16, EMF::EMRPOLYBEZIER, EMF::EMRPOLYPOLYGON16, EMF::EMRPOLYPOLYGON, EMF::EMRPOLYGON16, EMF::EMRPOLYGON, EMF::EMRPOLYLINE16, EMF::EMRPOLYLINE, EMF::EMRELLIPSE, EMF::EMRRECTANGLE, EMF::EMRARCTO, EMF::EMRARC, EMF::EMRLINETO, EMF::EMRMOVETOEX, EMF::EMRDELETEOBJECT, EMF::EMRSELECTOBJECT, EMF::EMRSETMAPMODE, EMF::EMRSETPOLYFILLMODE, EMF::EMRSETBKMODE, EMF::EMRSETBKCOLOR, EMF::EMRSETTEXTCOLOR, EMF::EMRSETTEXTALIGN, EMF::EMRSETWORLDTRANSFORM, EMF::EMRMODIFYWORLDTRAN EMF::EMRSCALEWINDOWEXTEX, EMF::EMRSETWINDOWEXTEX, EMF::EMRSCALEVIEWPORTEXTEX, EMF::EMRSETVIEWPORTEXTEX, EMF::EMRSETWINDOWORGEX, EMF::EMRSETVIEWPORTORGEX, EMF::EMREOF, and EMF::ENHMETAHEADER.

Referenced by EMF::METAFILEDEVICECONTEXT::appendHandle(), and EMF::METAFILEDEVICECONTEXT::appendRecord().

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

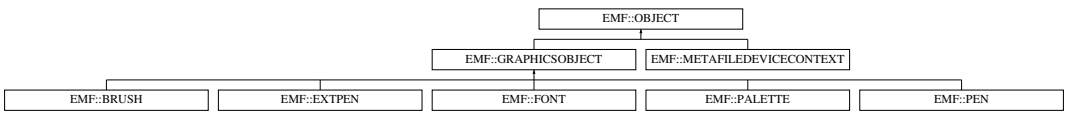
- libemf.h

3.67 EMF::OBJECT Class Reference

Global GDI object.

`#include <libemf.h>`

Inheritance diagram for EMF::OBJECT:



Public Member Functions

- virtual ~OBJECT ()

  OBJECTs have a virtual destructor.
- OBJECT (void)
- virtual OBJECTTYPE getType (void) const =0

Data Fields

- HGDIOBJ handle

3.67.1 Detailed Description

Global GDI object.

The GDI interface defines objects in terms of handles (rather than pointers). In order to emulate this, each object is placed into a global list and the index in that list becomes their handle.

3.67.2 Constructor & Destructor Documentation

3.67.2.1 OBJECT() `EMF::OBJECT::OBJECT ( void ) [inline]`

Create a new object. It's up to a subclass to create a real handle for this object.

3.67.3 Member Function Documentation

3.67.3.1 getType() `virtual OBJECTTYPE EMF::OBJECT::getType ( void ) const [pure virtual]`

Return the type of the object.

Implemented in EMF::METAFILEDEVICECONTEXT, EMF::PALETTE, EMF::FONT, EMF::BRUSH, EMF::EXTPEN, and EMF::PEN.

3.67.4 Field Documentation

3.67.4.1 handle `HGDIOBJ EMF::OBJECT::handle`

The handle of a GDI object.

Referenced by EMF::METAFILEDEVICECONTEXT::clearHandle().

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

- libemf.h

3.68 EMF::PADDING Struct Reference

All metafile records must be padded out to a multiple of 4 bytes.

`#include <libemf.h>`

Public Member Functions

- PADDING (const int size)

Data Fields

- const int size_
  Number of bytes of padding.

Static Public Attributes

- static const char padding_ [4] = { 0, 0, 0, 0 }
  Pad with '\0's.

3.68.1 Detailed Description

All metafile records must be padded out to a multiple of 4 bytes.

Write out a few bytes of padding if necessary.

3.68.2 Constructor & Destructor Documentation

3.68.2.1 PADDING() `EMF::PADDING::PADDING ( const int size ) [inline]`

simple constructor.

Parameters

size	number of bytes of padding to use.

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

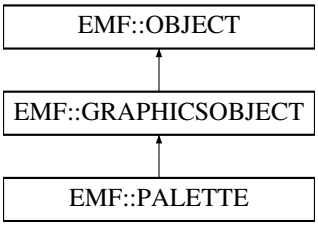
- libemf.h
- libemf.cpp

3.69 EMF::PALETTE Class Reference

Graphics Palette.

`#include <libemf.h>`

Inheritance diagram for EMF::PALETTE:



Public Member Functions

- PALETTE (const LOGPALETTE *lpalette)
- OBJECTTYPE getType (void) const
- METARECORD * newEMR (HDC dc, HGDIOBJ emf_handle)

Additional Inherited Members

3.69.1 Detailed Description

Graphics Palette.

Not entirely sure how palettes are used in general.

3.69.2 Constructor & Destructor Documentation

3.69.2.1 PALETTE() `EMF::PALETTE::PALETTE ( const LOGPALETTE * lpalette ) [inline]`

Parameters

lpalette	the (logical?) palette definition.

3.69.3 Member Function Documentation

3.69.3.1 getType() `OBJECTTYPE EMF::PALETTE::getType ( void ) const [inline], [virtual]`

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.69.3.2 newEMR() `METARECORD* EMF::PALETTE::newEMR ( HDC dc, HGDIOBJ emf_handle ) [inline], [virtual]`

Return a new metarecord for this object. And record its selection into the given device context.

Parameters

dc	handle of device context into which this object is being selected.
emf_handle	the EMF handle associated with the FONT.

Implements EMF::GRAPHICSOBJECT.

References EMF::GRAPHICSOBJECT::contexts.

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

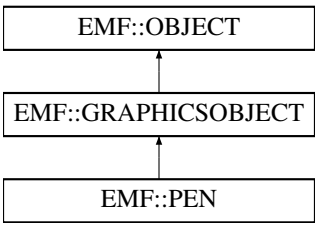
- libemf.h

3.70 EMF::PEN Class Reference

Graphics Pen.

`#include <libemf.h>`

Inheritance diagram for EMF::PEN:



Public Member Functions

- PEN (const LOGPEN *lpen)
- OBJECTTYPE getType (void) const
- METARECORD * newEMR (HDC dc, HGDIOBJ emf_handle)

Additional Inherited Members

3.70.1 Detailed Description

Graphics Pen.

Pens are used for drawing lines, arc, rectangles, etc.

3.70.2 Constructor & Destructor Documentation

3.70.2.1 PEN() `EMF::PEN::PEN (const LOGPEN * lpen ) [inline]`

Parameters

lpen	the (logical?) pen definition.

3.70.3 Member Function Documentation

3.70.3.1 getType() `OBJECTTYPE EMF::PEN::getType (void ) const [inline], [virtual]`

Return the type of this object (could probably do better with RTTI()).

Implements EMF::OBJECT.

3.70.3.2 newEMR() `METARECORD* EMF::PEN::newEMR (HDC dc, HGDIOBJ emf_handle ) [inline], [virtual]`

Return a new metarecord for this object. And record its selection into the given device context.

Parameters

dc	handle of device context into which this object is being selected.
emf_handle	the EMF handle associated with the PEN.

Implements EMF::GRAPHICSOBJECT.

References EMF::GRAPHICSOBJECT::contexts.

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

- libemf.h

3.71 EMF::POINT16ARRAY Struct Reference

Represent an array of 16-bit point in a simple way.

`#include <libemf.h>`

Public Member Functions

- POINT16ARRAY (POINT16 *const points, const DWORD n)

Data Fields

- POINT16 *const points_
  Array of POINT16s.
- const DWORD n_
  Number of POINT16s in array.

3.71.1 Detailed Description

Represent an array of 16-bit point in a simple way.

Allow an array of POINT16's to be written out at once.

3.71.2 Constructor & Destructor Documentation

3.71.2.1 POINT16ARRAY() `EMF::POINT16ARRAY::POINT16ARRAY ( POINT16 *const points, const DWORD n ) [inline]`

Simple constructor.

Parameters

points	pointer to array of POINT16s.
n	number POINT16s in array.

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

- libemf.h

3.72 EMF::POINTLARRAY Struct Reference

Represent an array of points in a simple way.

`#include <libemf.h>`

Public Member Functions

- POINTLARRAY (POINTL *const points, const DWORD n)

Data Fields

- POINTL *const points_
  Array of POINTLs.
- const DWORD n_
  Number of POINTLs in array.

3.72.1 Detailed Description

Represent an array of points in a simple way.

Allow an array of POINTL's to be written out at once.

3.72.2 Constructor & Destructor Documentation

3.72.2.1 POINTLARRAY() `EMF::POINTLARRAY::POINTLARRAY ( POINTL *const points, const DWORD n ) [inline]`

Simple constructor.

Parameters

points	pointer to array of POINTLs.
n	number POINTLs in array.

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

- libemf.h

3.73 EMF::WCHARSTR Struct Reference

Represent a wide (UNICODE) character string in a simple way.

`#include <libemf.h>`

Public Member Functions

- WCHARSTR (WCHAR *const string, const int length)

Data Fields

- WCHAR *const string_

  String of WCHARs.
- const int length_

  Number of WCHARs in string.

3.73.1 Detailed Description

Represent a wide (UNICODE) character string in a simple way.

Even (widechar) strings have to be byte swapped. This structure allows us to provide a uniform stream-like interface for writing out all the components of metafiles.

3.73.2 Constructor & Destructor Documentation

3.73.2.1 WCHARSTR() `EMF::WCHARSTR::WCHARSTR ( WCHAR *const string, const int length ) [inline]`

Simple constructor.

Parameters

string	pointer to string of WCHARS.
length	number of WCHARS in string.

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

- libemf.h

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