dgnlib

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DGNLib Namespace List

Here is a list of all namespaces with brief descriptions:

DGNLib Hierarchical Index

DGNLib Class Hierarchy

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

DGNLib Data Structure Index

DGNLib Data Structures

Here are the data structures with brief descriptions:

DGNLib Namespace Documentation

itk Namespace Reference

2itk

std Namespace Reference

2std

DGNLib Data Structure Documentation

CDGNArc Class Reference

2CDGNArc#include <DGNArc.h>

Inheritance diagram for CDGNArc:
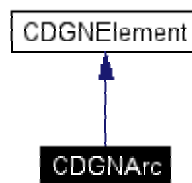
Collaboration diagram for CDGNArc:
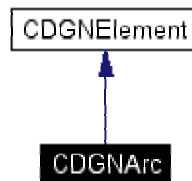
Public Member Functions

- CDGNArc ()
- virtual ~CDGNArc ()

- long size (PSQPRIMITIVE pPrimitive)
  calculate size.
- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
  The CDGNArc::Volume function.
- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  write pPrimitive to dgn file

Static Public Member Functions

- long Parse (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  ;2002.06.19 - if length of axis is less than DGN_TOLERANCE, set length of axis to zero. Reference DGN_TOLERANCE

  return : sizeof CDGNArc

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

- DGNArc.h
- DGNArc.cpp

CDGNCircle Class Reference

2CDGNCircle#include <DGNCircle.h>

Inheritance diagram for CDGNCircle:

Collaboration diagram for CDGNCircle:
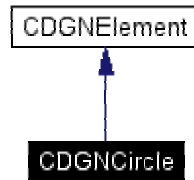
Public Member Functions

- CDGNCircle ()
- virtual ~CDGNCircle ()

- long size (PSQPRIMITIVE pPrimitive)
  The CDGNCircle::size function.

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
  The CDGNCircle::Volume function.

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNCircle::Write function.

Static Public Member Functions

- long Parse (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)

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

- DGNCircle.h
- DGNCircle.cpp

CDGNCone Class Reference

2CDGNCone#include <DGNCone.h>

Inheritance diagram for CDGNCone:
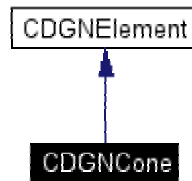
Collaboration diagram for CDGNCone:
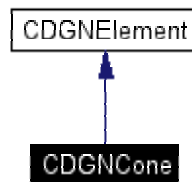
Public Member Functions

- CDGNCone ()
- virtual ~CDGNCone ()

- long size (PSQPRIMITIVE pPrimitive)
  The CDGNCone::size function.
- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
- bool StoreHeader (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNCone::StoreHeader function.
- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNCone::Write function.

Static Public Member Functions

- long Parse (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  The CDGNCone::Parse function.

Protected Member Functions

- void CalculateVolumeBox (SQVOLUME &volume, PSQPRIMITIVE pPrimitive)
  The CDGNCone::CalculateVolumeBox function.
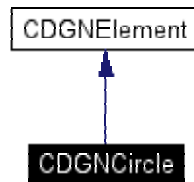- QUAT_T GetQuaternion (PSQPRIMITIVE pPrimitive)

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

- DGNCone.h
- DGNCone.cpp

CDGNDoc Class Reference

`2CDGNDoc#include <DGNDoc.h>`

Public Member Functions

- CDGNDoc ()
- virtual ~CDGNDoc ()
- void Set (PSQPRIMITIVE pSet)
  The CDGNDoc::Set function.

- PSQPRIMITIVE GetHead ()
- void * CreateObject (size_t nSiz)

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

- DGNDoc.h
- DGNDoc.cpp

CDGNElement Class Reference

2CDGNElement#include <DGNElement.h>

Inheritance diagram for CDGNElement:
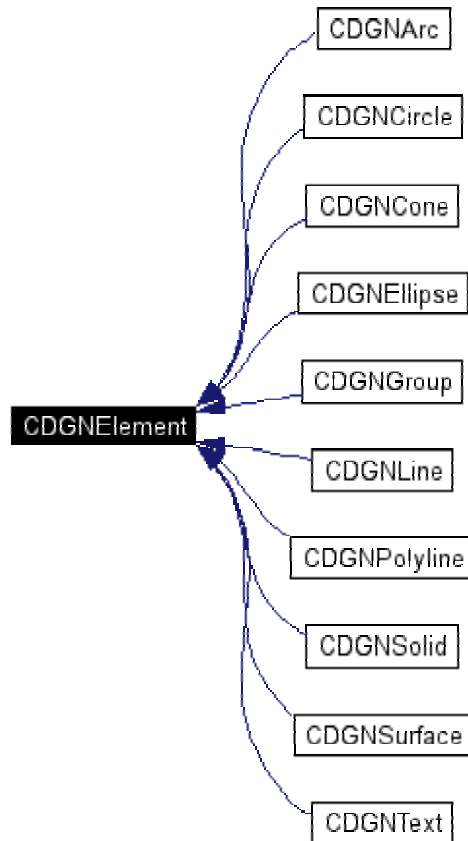
Public Member Functions

- CDGNElement ()
- virtual ~CDGNElement ()
- virtual long size (PSQPRIMITIVE pPrimitive)=0
- virtual VOLUME_T Volume (PSQPRIMITIVE pPrimitive)=0
- virtual long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)=0
- bool operator= (PSQPRIMITIVE pPrimitive)
- bool GetHeader (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  get header of dgn element.

Static Public Member Functions

- void WriteBounds (CDGNFile *hDGN, const VOLUME_T vol)
  write element's volume boundary to hDGN.

Data Fields

- int m_nType

Protected Attributes

- PSQPRIMITIVE m_pPrimitive


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

- DGNElement.h
- DGNElement.cpp

CDGNEllipse Class Reference

2CDGNEllipse#include <DGNEllipse.h>

Inheritance diagram for CDGNEllipse:
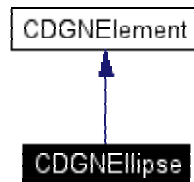
Collaboration diagram for CDGNEllipse:

Public Member Functions

- CDGNEllipse ()
- virtual ~CDGNEllipse ()

- long size (PSQPRIMITIVE pPrimitive)

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)

Static Public Member Functions

- long Parse (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  The CDGNEllipse::Parse function.

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

- DGNEllipse.h
- DGNEllipse.cpp

CDGNExport Class Reference

2CDGNExport#include <DGNExport.h>

Public Member Functions

- **CDGNExport** ()

- **~CDGNExport** ()

- int **GetDimension** ()
- double **GetSubUnit** ()
- void **OnExportFile** (const char *pExportFilePath, PSQPRIMITIVE pPrimitive)
  The CDGNExport::OnExportFile function.

- long **WritePrimitive** (**CDGNFile** *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNExport::WritePrimitive function

  write pPrimitive to file(hDGN->fp).

Data Fields

- char **m_szSeedFilePath** [1024]

Protected Member Functions

- void **OnCreate** ()

- void **OnDestroy** ()

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

- DGNExport.h
- DGNExport.cpp

CDGNFile Class Reference

`2CDGNFile#include <DGNFile.h>`

Public Member Functions

- bool ReadElement ()
  read one element which deleted flag is not setted from dgn file.

Data Fields

- FILE * fp
- bool bComponentOfComplexElem
- int nElemBytes
- unsigned char abyElem [65540] /// buffer for element
- int got_tcb
- int got_bounds
- int dimension
- double scale
- POINT_T m_ptOrigin
- unsigned short remainder
- int index_built
- int element_count
- int got_color_table
- unsigned char color_table [256][3]
- int next_element_id

The documentation for this class was generated from the following files:
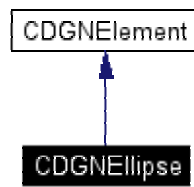
- DGNFile.h
- DGNFile.cpp

CDGNGroup Class Reference

2CDGNGroup#include <DGNGroup.h>

Inheritance diagram for CDGNGroup:

Collaboration diagram for CDGNGroup:
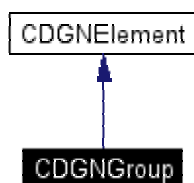
Public Member Functions

- CDGNGroup ()

- ~CDGNGroup ()

- long GetElemSize (const int nDimension)

The documentation for this class was generated from the following files:
- DGNGroup.h
- DGNGroup.cpp

CDGNImport Class Reference

2CDGNImport`#include <DGNImport.h>`

Collaboration diagram for CDGNImport:

Public Member Functions

- **CDGNImport** ()

- **~CDGNImport** ()

- PSQPRIMITIVE **OnImportFile** (const char *pImportFile)
  The CDGNImport::OnImportFile function

    read primitive from dgn file and clipping by volume.

- PSQPRIMITIVE **OnImportFile** (const char *pImportFilePath, PSQVOLUME pVolume)
  The CDGNImport::OnImportFile function.

- void **FreeImportedPrimitive** ()
  The CDGNImport::FreeImportedPrimitive function.

The documentation for this class was generated from the following files:
- DGNImport.h
- DGNImport.cpp

CDGNLib Class Reference

2CDGNLib#include <DGNLib.h>

Collaboration diagram for CDGNLib:
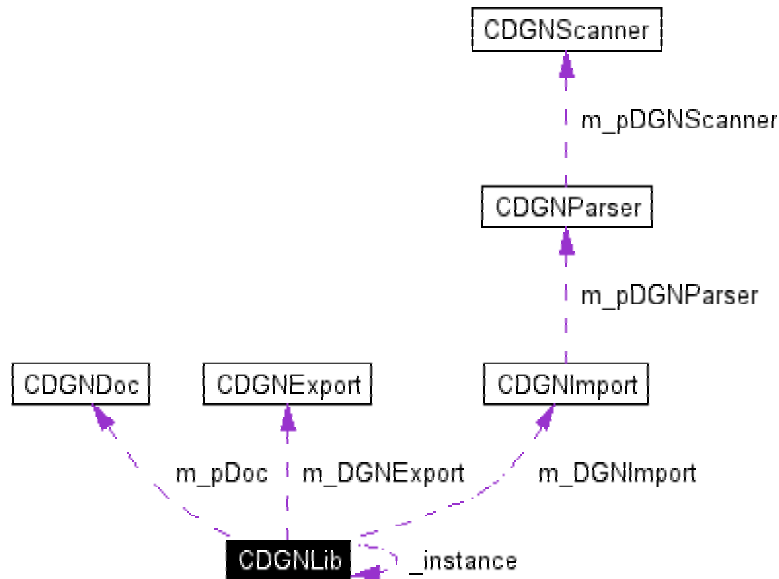
Public Member Functions

- virtual ~CDGNLib ()
- void GetColorValue (unsigned char &r, unsigned char &g, unsigned char &b, const int nDGNColor)
- const int GetDGNColorNumber (CDGNFile *hDGN, unsigned char r, unsigned char g, unsigned char b)
- const int GetSurfaceType (const int nDGNSurface)
- const int GetDGNSurfaceType (const int nDGNSurface)
- CDGNElement * GetElementPrototype (const int nType)
- void OnFreePrimitive ()
  The CDGNLib::OnFreePrimitive function.
- PSQPRIMITIVE NewPrimitive ()
- CDGNDoc * GetDoc ()
- bool Load (const char *pFilePath)

Static Public Member Functions

- CDGNLib * GetInstance ()
- void * memory (size_t nSize)
- void POINT2INT (unsigned char *paryTarget, POINT_T *ppt, CDGNFile *hDGN)
- bool IsPartOfComplexElement (CDGNFile *hDGN)
- void DeleteElement (PSQPRIMITIVE pPrimitive)
- void DeleteLinkageData (PSQPRIMITIVE ptrObj)

Data Fields

- CDGNImport m_DGNImport
- CDGNExport m_DGNExport

Static Public Attributes

- void *(* AllocMemory)(size_t nSize)
- void(* FreeMemory)(void *memblock)

Protected Member Functions

- CDGNLib ()

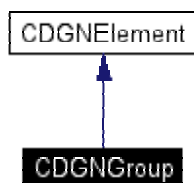
The documentation for this class was generated from the following files:

- DGNLib.h
- DGNLib.cpp

CDGNLine Class Reference

2CDGNLine#include <DGNLine.h>

Inheritance diagram for CDGNLine:
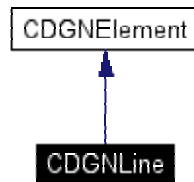
Collaboration diagram for CDGNLine:
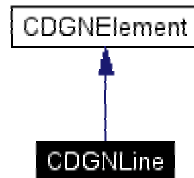
Public Member Functions

- CDGNLine ()
- virtual ~CDGNLine ()

- long size (PSQPRIMITIVE pPrimitive)
  The CDGNLine::size function.

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
  The CDGNLine::Volume function.

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNLine::Write function
   write line to the file.

Static Public Member Functions

- long Parse (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  The CDGNLine::Parse function.

The documentation for this class was generated from the following files:
- DGNLine.h
- DGNLine.cpp

CDGNLoop Class Reference

2CDGNLoop#include <DGNLoop.h>

Public Member Functions

- long [GetElemSize](const int nDimension)

Member Function Documentation

long CDGNLoop::GetElemSize (const int *nDimension*)

Definition at line 47 of file DGNLoop.cpp.

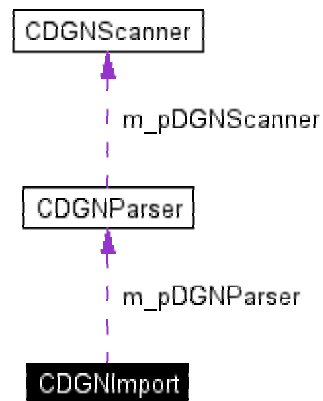
The documentation for this class was generated from the following files:

- [DGNLoop.h](#)
- [DGNLoop.cpp](#)

CDGNParser Class Reference

2CDGNParser#include <DGNParser.h>

Collaboration diagram for CDGNParser:
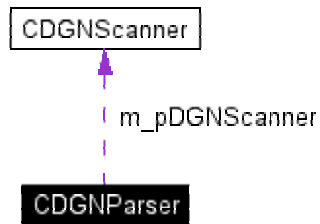
Public Member Functions

- CDGNParser ()
- virtual ~CDGNParser ()
- PSQPRIMITIVE Parse (CDGNFile *hDGN)

- PSQPRIMITIVE Parse (CDGNFile *hDGN, PSQVOLUME pVolume)

- long ParseElement (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  read a primitive from DGN buffer, and store to pPrimitive.

Static Public Member Functions

- void ParseHeader (PSQPRIMITIVE pPrimitive, CDGNFile *hDGN)
  parse primitive header.

- void GetDMRS (PSQPRIMITIVE pPrimitive, CDGNFile *hDGN)
  get dmrs linkage.

Protected Member Functions

- bool ParseCore (CDGNFile *hDGN, DGNElemCore *psElement)

- long ParseColorTable (CDGNFile *hDGN)

- long ParseApplicationElements (CDGNFile *hDGN)
  Parse application element.

- long ParseLine (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)

- long ParseLineString (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  parse DGNT_LINE_STRING , DGNT_SHAPE and DGNT_CURVE.
- long ParsePointString (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
- long ParseText (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
- long ParseComplexShapeOrChain (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  complex element formed from a series of elements.
- long ParseDimension (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
- long ParseGroupData (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  parse group data(type 5 : reference file).
- long ParseSolid (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  ;2003.07.29 - check solid header's total length for reading elements.
- long ParseSurface (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  parse surface element.

  first boundary elemnt appears and second boundary element follows.

  and rule elements follow boudary elements immediately.

  support 0(surface of projection),4(right circular cone),8(surface of revolution) types.
  ;2003.05.15 - convert right circular cone to cone.
  ;2003.07.29 - check surface header's total length for reading elements.
- long ParseBSplineSurfaceHeader (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
- long ParseBSplinePole (POINT_T *pPoints, CDGNFile *hDGN)
- long ParseBSplineKnot (CDGNFile *hDGN, double *pKnot, const int nPoints)
  parse b-spline knot.
- long ParseBSplineWeightFactor (CDGNFile *hDGN, double *pWeight, const int nPoints)
- long ParseBSplineSurfaceBoundary (PPOINT_T pPoints, CDGNFile *hDGN)
- long ParseCellHeader (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
  The CDGNParser::ParseCellHeader function.
- long ParseTCB (CDGNFile *hDGN)
  parse terminal control block.
- long ParseRasterHeader (PSQPRIMITIVE *ppPrimitiveList, CDGNFile *hDGN)
- int GetNumOfElements (PSQPRIMITIVE pPrimitive)
- PSQPRIMITIVE ClippingByVolume (PSQPRIMITIVE pPrimitive, PSQVOLUME pVolume)
- PSQPRIMITIVE ClippingPrimitiveByVolume (PSQPRIMITIVE pDest, PSQPRIMITIVE pSrc, PSQVOLUME pVolume)
  clipping pSrc by pVolume and store to pDest.

- bool IsPipe (PSQPRIMITIVE pPrimitive)
- bool IsElbow (PSQPRIMITIVE pPrimitive)
- bool IsTee (PSQPRIMITIVE pPrimitive)
  ;2003.06.12 - check user data linkage for tee.
- bool IsEquipment (PSQPRIMITIVE pPrimitive)
 *The CDGNParser::IsEquipment function.*

The documentation for this class was generated from the following files:
- DGNParser.h
- DGNParser.cpp

CDGNPolyline Class Reference

2CDGNPolyline#include <DGNPolyline.h>

Inheritance diagram for CDGNPolyline:
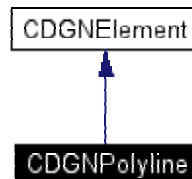
Collaboration diagram for CDGNPolyline:
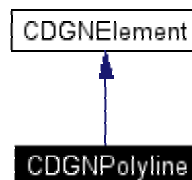
Public Member Functions

- CDGNPolyline ()

- virtual ~CDGNPolyline ()
- long size (PSQPRIMITIVE pPrimitive)
  The CDGNPolyline::size function.

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
  The CDGNPolyline::Volume function.

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNPolyline::Write function.

The documentation for this class was generated from the following files:
- DGNPolyline.h
- DGNPolyline.cpp

CDGNScanner Class Reference

2CDGNScanner#include <DGNScanner.h>

Public Member Functions

- CDGNScanner ()
- virtual ~CDGNScanner ()
- bool ReadElement (CDGNFile *hDGN)

  Read the first four bytes to get the level, type, and word,count.

- void PushBackElement (CDGNFile *hDGN)

  The CDGNScanner::PushBackElement function.

- bool Read (CDGNFile *pFile)

Protected Attributes

- long m_nFilePos

Field Documentation

long CDGNScanner::m_nFilePos `[protected]`

Definition at line 24 of file DGNScanner.h.

Referenced by CDGNScanner(), PushBackElement(), and ReadElement().

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

- DGNScanner.h
- include/DGNScanner.h
- DGNScanner.cpp
- src/DGNScanner.cpp

CDGNSolid Class Reference

2CDGNSolid#include <DGNSolid.h>

Inheritance diagram for CDGNSolid:
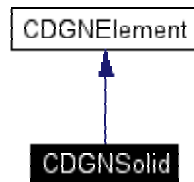
Collaboration diagram for CDGNSolid:
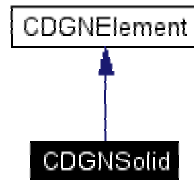
Public Member Functions

- CDGNSolid ()
- virtual ~CDGNSolid ()

- long size (PSQPRIMITIVE pPrimitive)
  The CDGNSolid::size function.

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
- bool StoreHeader (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)

- int GetNumOfElements (PSQPRIMITIVE pPrimitive)
  The CDGNSolid::GetNumOfElements function.

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNSolid::Write function

    parse surface element.

    first boundary element appears and second boundary element follows.

    and rule elements follow boundary elements immediately.

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

- DGNSolid.h
- DGNSolid.cpp

CDGNSurface Class Reference

2CDGNSurface#include <DGNSurface.h>

Inheritance diagram for CDGNSurface:
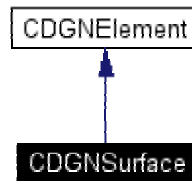
Collaboration diagram for CDGNSurface:
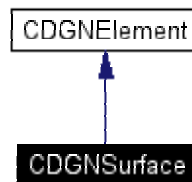
Public Member Functions

- CDGNSurface ()
- virtual ~CDGNSurface ()

- VOLUME_T Volume (PSQPRIMITIVE pPrimitive)
  The CDGNSurface::Volume function.

- bool StoreHeader (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNSurface::StoreHeader function.

- int GetNumOfElements (PSQPRIMITIVE pPrimitive)
  The CDGNSurface::GetNumOfElements function.

- long size (PSQPRIMITIVE pPrimitive)
  The CDGNSurface::size function.

- long Write (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNSurface::Write function

The documentation for this class was generated from the following files:
- DGNSurface.h
- DGNSurface.cpp

CDGNText Class Reference

2CDGNText#include <DGNText.h>

Inheritance diagram for CDGNText:
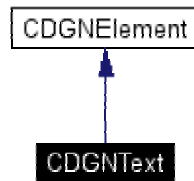
Collaboration diagram for CDGNText:
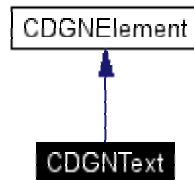
Public Member Functions

- **CDGNText** ()
- virtual **~CDGNText** ()

- long **size** (PSQPRIMITIVE pPrimitive)
  The CDGNText::size function.

- VOLUME_T **Volume** (PSQPRIMITIVE pPrimitive)
  The CDGNText::Volume function.

- long **Write** (CDGNFile *hDGN, PSQPRIMITIVE pPrimitive)
  The CDGNText::Write function

    write text to the file

    when calculate element's words 1 is added to length's of text.

Static Public Member Functions

- long **Parse** (PSQPRIMITIVE *ppPrimitive, CDGNFile *hDGN)
  The CDGNText::Parse function.

The documentation for this class was generated from the following files:
- DGNText.h
- DGNText.cpp

dbl Struct Reference

2dbl

Data Fields

- unsigned int hi
- unsigned int lo

Field Documentation

unsigned int dbl::hi

Definition at line 8 of file DGNFloat.cpp.

Referenced by DGN2IEEEDouble().

unsigned int dbl::lo

Definition at line 9 of file DGNFloat.cpp.

Referenced by DGN2IEEEDouble().

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

- DGNFloat.cpp

DGNElemCore Struct Reference

2DGNElemCore#include <DGNStruct.h>

Data Fields

- unsigned int <u>offset</u>
- unsigned int <u>size</u>
- int <u>g_cnt</u>
- int <u>element_id</u>
- int <u>stype</u>
- int <u>level</u>
- int <u>type</u>
- int <u>complex</u>
- int <u>deleted</u>
- int <u>graphic_group</u>
- int <u>properties</u>
- int <u>color</u>
- int <u>weight</u>
- int <u>style</u>
- int <u>attr_bytes</u>
- unsigned char * <u>attr_data</u>

Field Documentation

int **DGNElemCore::attr_bytes**

Definition at line 79 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

unsigned char* **DGNElemCore::attr_data**

Definition at line 80 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int **DGNElemCore::color**

Definition at line 75 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int **DGNElemCore::complex**

Definition at line 70 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int DGNElemCore::deleted

Definition at line 71 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int DGNElemCore::element_id

Definition at line 66 of file DGNStruct.h.

int DGNElemCore::g_cnt

Definition at line 65 of file DGNStruct.h.

int DGNElemCore::graphic_group

Definition at line 73 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int DGNElemCore::level

Definition at line 68 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

unsigned int DGNElemCore::offset

Definition at line 62 of file DGNStruct.h.

int DGNElemCore::properties

Definition at line 74 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

unsigned int DGNElemCore::size

Definition at line 63 of file DGNStruct.h.

int DGNElemCore::style

Definition at line 77 of file DGNStruct.h.

Referenced by CDGNParser::ParseCore().

int DGNElemCore::stype

    Definition at line 67 of file DGNStruct.h.

    Referenced by CDGNParser::ParseTCB().

int DGNElemCore::type

    Definition at line 69 of file DGNStruct.h.

    Referenced by CDGNParser::ParseCore().

int DGNElemCore::weight

    Definition at line 76 of file DGNStruct.h.

    Referenced by CDGNParser::ParseCore().

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

- DGNStruct.h

DISPHDR Struct Reference

2DISPHDR#include <DGNStruct.h>

Collaboration diagram for DISPHDR:
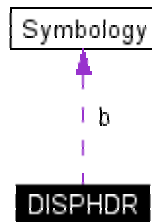
Data Fields

- unsigned short gphgrp
- short attindx
- union {
- short **s**
- struct {
- unsigned short **_class**:4
- unsigned short **res**:4
- unsigned short **l**:1
- unsigned short **n**:1
- unsigned short **m**:1
- unsigned short **a**:1
- unsigned short **r**:1
- unsigned short **p**:1
- unsigned short **s**:1
- unsigned short **h**:1
- } **b**
- } props
- union {
- short **s**
- Symbology **b**
- } symb

Field Documentation

unsigned short DISPHDR::_class

Definition at line 41 of file DGNStruct.h.

unsigned short DISPHDR::a

Definition at line 46 of file DGNStruct.h.

short DISPHDR::attindx

Definition at line 36 of file DGNStruct.h.

Referenced by CDGNSurface::Write(), CDGNSolid::Write(), and CDGNCone::Write().

Symbology DISPHDR::b

Definition at line 56 of file DGNStruct.h.

struct { ... }   DISPHDR::b

unsigned short DISPHDR::gphgrp

Definition at line 35 of file DGNStruct.h.

unsigned short DISPHDR::h

Definition at line 50 of file DGNStruct.h.

unsigned short DISPHDR::l

Definition at line 43 of file DGNStruct.h.

unsigned short DISPHDR::m

Definition at line 45 of file DGNStruct.h.

unsigned short DISPHDR::n

Definition at line 44 of file DGNStruct.h.

unsigned short DISPHDR::p

Definition at line 48 of file DGNStruct.h.

union { ... }   DISPHDR::props

Referenced by CDGNElement::GetHeader(), CDGNLine::Parse(), CDGNEllipse::Parse(), CDGNCone::Parse(), CDGNArc::Parse(), CDGNParser::ParseCellHeader(), CDGNParser::ParseComplexShapeOrChain(), CDGNParser::ParseHeader(), CDGNParser::ParseLine(), CDGNParser::ParseLineString(), CDGNParser::ParsePointString(), CDGNParser::ParseSolid(), CDGNParser::ParseSurface(), CDGNParser::ParseText(), CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), CDGNSurface::Write(), CDGNSolid::Write(), and CDGNCone::Write().

unsigned short DISPHDR::r

Definition at line 47 of file DGNStruct.h.

unsigned short DISPHDR::res

Definition at line 42 of file DGNStruct.h.

unsigned short DISPHDR::s

Definition at line 49 of file DGNStruct.h.

short DISPHDR::s

Definition at line 55 of file DGNStruct.h.

union { ... }   DISPHDR::symb

Referenced by CDGNElement::GetHeader(), CDGNParser::ParseHeader(), CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), and CDGNCone::StoreHeader().

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

- DGNStruct.h

ELMHDR Struct Reference

2ELMHDR#include <DGNStruct.h>

Data Fields

- unsigned short <u>level</u>:6
- unsigned short <u>r</u>:1
- unsigned short <u>complex</u>:1
- unsigned short <u>type</u>:7
- unsigned short <u>deleted</u>:1
- unsigned short <u>words</u>
- unsigned long <u>xlow</u>
- unsigned long <u>ylow</u>
- unsigned long <u>zlow</u>
- unsigned long <u>xhigh</u>
- unsigned long <u>yhigh</u>
- unsigned long <u>zhigh</u>

Field Documentation

unsigned short **ELMHDR::complex**

Definition at line 16 of file DGNStruct.h.

Referenced by CDGNElement::GetHeader(), CDGNLib::IsPartOfComplexElement(), CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), and CDGNCone::StoreHeader().

unsigned short **ELMHDR::deleted**

Definition at line 18 of file DGNStruct.h.

Referenced by CDGNElement::GetHeader(), CDGNFile::ReadElement(), CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), and CDGNCone::StoreHeader().

unsigned short **ELMHDR::level**

Definition at line 14 of file DGNStruct.h.

Referenced by CDGNElement::GetHeader(), CDGNParser::ParseElement(), CDGNParser::ParseHeader(), CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), CDGNSurface::Write(), and CDGNSolid::Write().

unsigned short **ELMHDR::r**

Definition at line 15 of file DGNStruct.h.

unsigned short ELMHDR::type

Definition at line 17 of file DGNStruct.h.

Referenced by CDGNParser::ParseBSplineSurfaceHeader(), CDGNParser::ParseElement(), CDGNParser::ParseLineString(), CDGNSurface::Write(), CDGNSolid::Write(), and CDGNCone::Write().

unsigned short ELMHDR::words

Definition at line 19 of file DGNStruct.h.

Referenced by CDGNSurface::Write(), CDGNSolid::Write(), and CDGNCone::Write().

unsigned long ELMHDR::xhigh

Definition at line 23 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

unsigned long ELMHDR::xlow

Definition at line 20 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

unsigned long ELMHDR::yhigh

Definition at line 24 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

unsigned long ELMHDR::ylow

Definition at line 21 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

unsigned long ELMHDR::zhigh

Definition at line 25 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

unsigned long ELMHDR::zlow

Definition at line 22 of file DGNStruct.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), CDGNCone::StoreHeader(), and CDGNElement::WriteBounds().

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

- DGNStruct.h

Fb_opts Struct Reference

2Fb_opts#include <DGNStruct.h>

Data Fields

- unsigned [multi_attach](#):1
- unsigned [one_one_map](#):1
- unsigned [slot_in_use](#):1
- unsigned [upd_fildgn](#):1
- unsigned [db_diff_mf](#):1
- unsigned [snap_lock](#):1
- unsigned [locate_lock](#):1
- unsigned [missing_file](#):1
- unsigned [unused](#):8

Field Documentation

unsigned **Fb_opts::db_diff_mf**

Definition at line 90 of file DGNStruct.h.

unsigned **Fb_opts::locate_lock**

Definition at line 92 of file DGNStruct.h.

unsigned **Fb_opts::missing_file**

Definition at line 93 of file DGNStruct.h.

unsigned **Fb_opts::multi_attach**

Definition at line 86 of file DGNStruct.h.

unsigned **Fb_opts::one_one_map**

Definition at line 87 of file DGNStruct.h.

unsigned **Fb_opts::slot_in_use**

Definition at line 88 of file DGNStruct.h.

unsigned Fb_opts::snap_lock

    Definition at line 91 of file DGNStruct.h.

unsigned Fb_opts::unused

    Definition at line 94 of file DGNStruct.h.

unsigned Fb_opts::upd_fildgn

    Definition at line 89 of file DGNStruct.h.

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

- DGNStruct.h

Fd_opts Struct Reference

2Fd_opts#include <DGNStruct.h>

Data Fields

- unsigned <u>view_ovr</u>:1
- unsigned <u>display</u>:1
- unsigned <u>line_width</u>:1
- unsigned <u>unused</u>:13

Field Documentation

unsigned Fd_opts::display

Definition at line 99 of file DGNStruct.h.

unsigned Fd_opts::line_width

Definition at line 100 of file DGNStruct.h.

unsigned Fd_opts::unused

Definition at line 101 of file DGNStruct.h.

unsigned Fd_opts::view_ovr

Definition at line 98 of file DGNStruct.h.

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

- DGNStruct.h

Symbology Struct Reference

2Symbology#include <DGNStruct.h>

Data Fields

- unsigned short style:3
- unsigned short weight:5
- unsigned short color:8

Field Documentation

unsigned short Symbology::color

    Definition at line 31 of file DGNStruct.h.

unsigned short Symbology::style

    Definition at line 29 of file DGNStruct.h.

unsigned short Symbology::weight

    Definition at line 30 of file DGNStruct.h.

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

- DGNStruct.h

tagDGNATTRDATA Struct Reference

2tagDGNATTRDATA#include <DGNAttrData.h>

Collaboration diagram for tagDGNATTRDATA:

Data Fields

- DGNATTRDATAHDR hdr
- unsigned short UserID
- union {
-    char * **pData**
-    long **occur**
- } data
- tagDGNATTRDATA * next

Field Documentation

union { ... } tagDGNATTRDATA::data

DGNATTRDATAHDR tagDGNATTRDATA::hdr

    Definition at line 31 of file DGNAttrData.h.

struct tagDGNATTRDATA* tagDGNATTRDATA::next

    Definition at line 38 of file DGNAttrData.h.

long tagDGNATTRDATA::occur

    Definition at line 35 of file DGNAttrData.h.

char* tagDGNATTRDATA::pData

    Definition at line 34 of file DGNAttrData.h.

unsigned short tagDGNATTRDATA::UserID

    Definition at line 32 of file DGNAttrData.h.

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

- DGNAttrData.h

tagDGNATTRDATAHDR Struct Reference

2tagDGNATTRDATAHDR#include <DGNAttrData.h>

Data Fields

- unsigned short wtf:8
- unsigned short _class:4
- unsigned short u:1
- unsigned short m:1
- unsigned short r:1
- unsigned short i:1

Field Documentation

unsigned short tagDGNATTRDATAHDR::_class

Definition at line 22 of file DGNAttrData.h.

unsigned short tagDGNATTRDATAHDR::i

Definition at line 26 of file DGNAttrData.h.

unsigned short tagDGNATTRDATAHDR::m

Definition at line 24 of file DGNAttrData.h.

unsigned short tagDGNATTRDATAHDR::r

Definition at line 25 of file DGNAttrData.h.

unsigned short tagDGNATTRDATAHDR::u

Definition at line 23 of file DGNAttrData.h.

unsigned short tagDGNATTRDATAHDR::wtf

Definition at line 21 of file DGNAttrData.h.

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

- DGNAttrData.h

tagDGNBSpline_Surface Struct Reference

2tagDGNBSpline_Surface#include <DGNStruct.h>

Collaboration diagram for tagDGNBSpline_Surface:
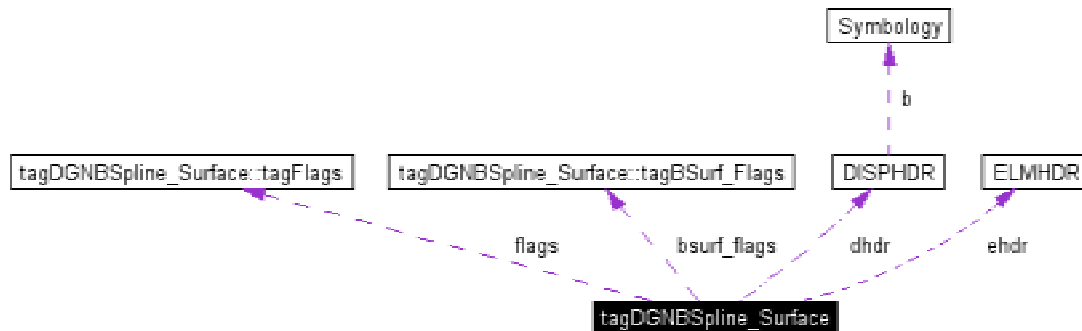
Data Fields

- **ELMHDR** ehdr
- **DISPHDR** dhdr
- long desc_words
- **tagDGNBSpline_Surface::tagFlags** flags
- short num_poles_u
- short num_knots_u
- short rule_lines_u
- **tagDGNBSpline_Surface::tagBSurf_Flags** bsurf_flags
- short num_poles_v
- short num_knots_v
- short rule_lines_v
- short num_bounds

Field Documentation

struct tagDGNBSpline_Surface::tagBSurf_Flags tagDGNBSpline_Surface::bsurf_flags

long tagDGNBSpline_Surface::desc_words

Definition at line 133 of file DGNStruct.h.

DISPHDR tagDGNBSpline_Surface::dhdr

Definition at line 132 of file DGNStruct.h.

ELMHDR tagDGNBSpline_Surface::ehdr

Definition at line 131 of file DGNStruct.h.

struct tagDGNBSpline_Surface::tagFlags tagDGNBSpline_Surface::flags

short tagDGNBSpline_Surface::num_bounds

Definition at line 155 of file DGNStruct.h.

short tagDGNBSpline_Surface::num_knots_u

Definition at line 143 of file DGNStruct.h.

short tagDGNBSpline_Surface::num_knots_v

Definition at line 153 of file DGNStruct.h.

short tagDGNBSpline_Surface::num_poles_u

Definition at line 142 of file DGNStruct.h.

short tagDGNBSpline_Surface::num_poles_v

Definition at line 152 of file DGNStruct.h.

short tagDGNBSpline_Surface::rule_lines_u

Definition at line 144 of file DGNStruct.h.

short tagDGNBSpline_Surface::rule_lines_v

Definition at line 154 of file DGNStruct.h.

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

- DGNStruct.h

tagDGNBSpline_Surface::tagBSurf_Flags Struct Reference

2tagDGNBSpline_Surface::tagBSurf_Flags#include <DGNStruct.h>

Data Fields
- unsigned short <u>v_order</u>:4
- short <u>reversed1</u>:2
- unsigned short <u>arcSpacing</u>:1
- unsigned short <u>v_closed</u>:1
- unsigned short <u>reversed2</u>:8

Field Documentation

unsigned short tagDGNBSpline_Surface::tagBSurf_Flags::arcSpacing

Definition at line 148 of file DGNStruct.h.

short tagDGNBSpline_Surface::tagBSurf_Flags::reversed1

Definition at line 147 of file DGNStruct.h.

unsigned short tagDGNBSpline_Surface::tagBSurf_Flags::reversed2

Definition at line 150 of file DGNStruct.h.

unsigned short tagDGNBSpline_Surface::tagBSurf_Flags::v_closed

Definition at line 149 of file DGNStruct.h.

unsigned short tagDGNBSpline_Surface::tagBSurf_Flags::v_order

Definition at line 146 of file DGNStruct.h.

The documentation for this struct was generated from the following file:
- DGNStruct.h

tagDGNBSpline_Surface::tagFlags Struct Reference

2tagDGNBSpline_Surface::tagFlags#include <DGNStruct.h>

Data Fields

- unsigned short <u>order</u>:4
- unsigned short <u>curve_display</u>:1
- unsigned short <u>poly_display</u>:1
- unsigned short <u>rational</u>:1
- unsigned short <u>closed</u>:1
- unsigned short <u>curve_type</u>:8

Field Documentation

unsigned short **tagDGNBSpline_Surface::tagFlags::closed**

Definition at line 139 of file DGNStruct.h.

unsigned short **tagDGNBSpline_Surface::tagFlags::curve_display**

Definition at line 136 of file DGNStruct.h.

unsigned short **tagDGNBSpline_Surface::tagFlags::curve_type**

Definition at line 140 of file DGNStruct.h.

unsigned short **tagDGNBSpline_Surface::tagFlags::order**

Definition at line 135 of file DGNStruct.h.

unsigned short **tagDGNBSpline_Surface::tagFlags::poly_display**

Definition at line 137 of file DGNStruct.h.

unsigned short **tagDGNBSpline_Surface::tagFlags::rational**

Definition at line 138 of file DGNStruct.h.

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

- DGNStruct.h

tagDGNCOLORS Struct Reference

2tagDGNCOLORS

Data Fields

- int nDGNColor
- unsigned char r
- unsigned char g
- unsigned char b

Field Documentation

unsigned char tagDGNCOLORS::b

Definition at line 24 of file DGNLib.cpp.

Referenced by CDGNLib::GetColorValue().

unsigned char tagDGNCOLORS::g

Definition at line 24 of file DGNLib.cpp.

Referenced by CDGNLib::GetColorValue().

int tagDGNCOLORS::nDGNColor

Definition at line 23 of file DGNLib.cpp.

Referenced by CDGNLib::GetColorValue().

unsigned char tagDGNCOLORS::r

Definition at line 24 of file DGNLib.cpp.

Referenced by CDGNLib::GetColorValue().

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

- DGNLib.cpp

tagDGNHDR Struct Reference

2tagDGNHDR#include <DGNEnum.h>

Collaboration diagram for tagDGNHDR:
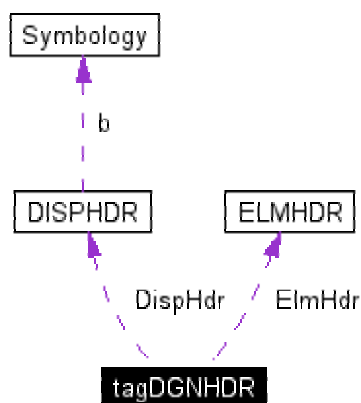
Data Fields

- ELMHDR ElmHdr
- DISPHDR DispHdr

Field Documentation

DISPHDR tagDGNHDR::DispHdr

Definition at line 80 of file DGNEnum.h.

ELMHDR tagDGNHDR::ElmHdr

Definition at line 79 of file DGNEnum.h.

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

- DGNEnum.h

tagDGNLONG Struct Reference

`2tagDGNLONG#include <DGNEnum.h>`

Data Fields

- unsigned short hi
- unsigned short lo

Field Documentation

unsigned short tagDGNLONG::hi

Definition at line 66 of file DGNEnum.h.

unsigned short tagDGNLONG::lo

Definition at line 67 of file DGNEnum.h.

Referenced by CDGNSurface::StoreHeader(), CDGNSolid::StoreHeader(), and CDGNCone::StoreHeader().

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

- DGNEnum.h

tagDGNPOINT2D Struct Reference

2tagDGNPOINT2D#include <DGNEnum.h>

Data Fields

- long x
- long y

Field Documentation

long tagDGNPOINT2D::x

Definition at line 73 of file DGNEnum.h.

long tagDGNPOINT2D::y

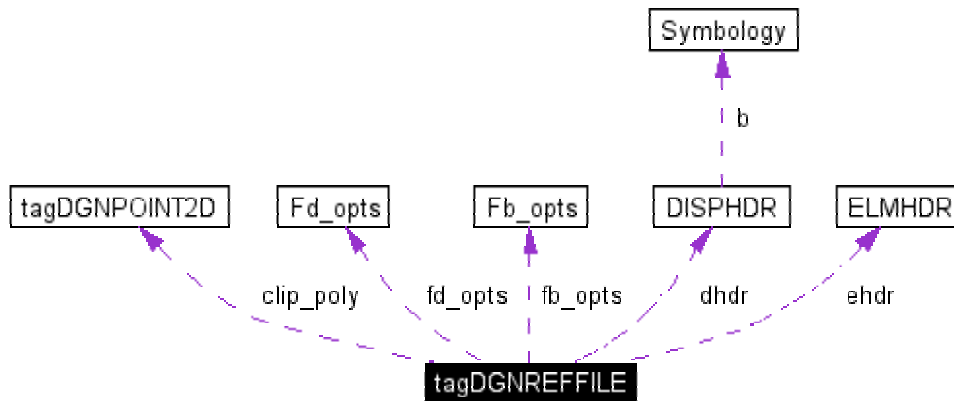Definition at line 74 of file DGNEnum.h.

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

- DGNEnum.h

tagDGNREFFILE Struct Reference

2tagDGNREFFILE#include <DGNRefFile.h>

Collaboration diagram for tagDGNREFFILE:

Data Fields

- ELMHDR ehdr
- DISPHDR dhdr
- short file_chars
- char file_spec [65]
- unsigned char file_num
- Fb_opts fb_opts
- Fd_opts fd_opts
- unsigned char disp_flags [16]
- short lev_flags [8][4]
- long ref_org [3]
- double trns_mtrx [9]
- double cnvrs_fact
- long mast_org [3]
- short log_chars
- char log_name [22]
- short desc_chars
- char description [42]
- short lev_sym_mask
- short lev_sym [63]
- long z_delta
- short clip_vertices
- DGNPOINT2D clip_poly [2]

Field Documentation

DGNPOINT2D tagDGNREFFILE::clip_poly[2]

    Definition at line 28 of file DGNRefFile.h.

short tagDGNREFFILE::clip_vertices

    Definition at line 27 of file DGNRefFile.h.

double tagDGNREFFILE::cnvrs_fact

    Definition at line 18 of file DGNRefFile.h.

short tagDGNREFFILE::desc_chars

    Definition at line 22 of file DGNRefFile.h.

char tagDGNREFFILE::description[42]

    Definition at line 23 of file DGNRefFile.h.

DISPHDR tagDGNREFFILE::dhdr

    Definition at line 8 of file DGNRefFile.h.

unsigned char tagDGNREFFILE::disp_flags[16]

    Definition at line 14 of file DGNRefFile.h.

ELMHDR tagDGNREFFILE::ehdr

    Definition at line 7 of file DGNRefFile.h.

Fb_opts tagDGNREFFILE::fb_opts

    Definition at line 12 of file DGNRefFile.h.

Fd_opts tagDGNREFFILE::fd_opts

    Definition at line 13 of file DGNRefFile.h.

short tagDGNREFFILE::file_chars

Definition at line 9 of file DGNRefFile.h.

Referenced by CDGNParser::ParseGroupData().

unsigned char tagDGNREFFILE::file_num

Definition at line 11 of file DGNRefFile.h.

char tagDGNREFFILE::file_spec[65]

Definition at line 10 of file DGNRefFile.h.

Referenced by CDGNParser::ParseGroupData().

short tagDGNREFFILE::lev_flags[8][4]

Definition at line 15 of file DGNRefFile.h.

short tagDGNREFFILE::lev_sym[63]

Definition at line 25 of file DGNRefFile.h.

short tagDGNREFFILE::lev_sym_mask

Definition at line 24 of file DGNRefFile.h.

short tagDGNREFFILE::log_chars

Definition at line 20 of file DGNRefFile.h.

char tagDGNREFFILE::log_name[22]

Definition at line 21 of file DGNRefFile.h.

long tagDGNREFFILE::mast_org[3]

Definition at line 19 of file DGNRefFile.h.

long tagDGNREFFILE::ref_org[3]

Definition at line 16 of file DGNRefFile.h.

double tagDGNREFFILE::trns_mtrx[9]

Definition at line 17 of file DGNRefFile.h.

long tagDGNREFFILE::z_delta

Definition at line 26 of file DGNRefFile.h.

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

- DGNRefFile.h

tagDGNSURFACES Struct Reference

2tagDGNSURFACES

Data Fields

- int nDGNSurface
- int nSurface

Field Documentation

int tagDGNSURFACES::nDGNSurface

Definition at line 46 of file DGNLib.cpp.

Referenced by CDGNLib::GetDGNSurfaceType().

int tagDGNSURFACES::nSurface

Definition at line 46 of file DGNLib.cpp.

Referenced by CDGNLib::GetDGNSurfaceType(), and CDGNLib::GetSurfaceType().

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

- DGNLib.cpp

Viewflags Struct Reference

2Viewflags#include <DGNStruct.h>

Data Fields

- unsigned <u>fast_curve</u>:1
- unsigned <u>fast_text</u>:1
- unsigned <u>fast_font</u>:1
- unsigned <u>line_wghts</u>:1
- unsigned <u>patterns</u>:1
- unsigned <u>text_nodes</u>:1
- unsigned <u>ed_fields</u>:1
- unsigned <u>on_off</u>:1
- unsigned <u>delay</u>:1
- unsigned <u>grid</u>:1
- unsigned <u>lev_symb</u>:1
- unsigned <u>points</u>:1
- unsigned <u>constructs</u>:1
- unsigned <u>dimens</u>:1
- unsigned <u>fast_cell</u>:1
- unsigned <u>def</u>:1

Field Documentation

unsigned Viewflags::constructs

    Definition at line 118 of file DGNStruct.h.

unsigned Viewflags::def

    Definition at line 121 of file DGNStruct.h.

unsigned Viewflags::delay

    Definition at line 114 of file DGNStruct.h.

unsigned Viewflags::dimens

    Definition at line 119 of file DGNStruct.h.

unsigned Viewflags::ed_fields

    Definition at line 112 of file DGNStruct.h.

unsigned Viewflags::fast_cell

Definition at line 120 of file DGNStruct.h.

unsigned Viewflags::fast_curve

Definition at line 106 of file DGNStruct.h.

unsigned Viewflags::fast_font

Definition at line 108 of file DGNStruct.h.

unsigned Viewflags::fast_text

Definition at line 107 of file DGNStruct.h.

unsigned Viewflags::grid

Definition at line 115 of file DGNStruct.h.

unsigned Viewflags::lev_symb

Definition at line 116 of file DGNStruct.h.

unsigned Viewflags::line_wghts

Definition at line 109 of file DGNStruct.h.

unsigned Viewflags::on_off

Definition at line 113 of file DGNStruct.h.

unsigned Viewflags::patterns

Definition at line 110 of file DGNStruct.h.

unsigned Viewflags::points

Definition at line 117 of file DGNStruct.h.

unsigned Viewflags::text_nodes

Definition at line 111 of file DGNStruct.h.

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

- DGNStruct.h

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