开源博客

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osc 8g67o6g0的个人空间 / 正文

CAD DWG/DXF文件C++解析库libdxfrw

osc 8g67o6g0 2020/02/18 16:44 阅读数 3.8K

libdxfrw是一个免费的C++库,可以读写ascii和二进制格式的DXF文件。

也可以读取从R14到最后一个V2015的DWG文件。

它是根据GNU通用公共许可版本2(或您选择的任何更高版本)的条款许可的。

如果您正在寻找有关该项目的一般信息,请访问网站: http://sourceforge.net/projects/libdxfrw

github地址: https://github.com/codelibs/libdxfrw

libdxfrw是由libreCAD的一位开发者创建,libreCAD使用了该库来解析CAD文件。

libreCAD官网: https://librecad.org/





立即入驻

自媒体入驻开源社区, 获百万流量, 打造个人技术品牌



推荐关注

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听雨ing 开源软件作者



文章 43 访问 27.1W



知了一笑 文章 232 访问 39.8W



CodeSheep

文章 95 访问 68.4W

资讯 开源长廊 专区	问答 活动 软件库	发现 博客	特惠 Gitee
👪 bin	2020/2/18 9:47	文件夹	
dwg2dxf	2020/2/18 9:47	文件夹	
dwg2text	2020/2/18 9:47	文件夹	
src	2020/2/18 9:47	文件夹	
₩ vs2013	2020/2/18 9:47	文件夹	
gitignore.	2019/12/19 5:01	文本文档	1 KB
aclocal.m4	2019/12/19 5:01	M4 文件	39 KB
ar-lib	2019/12/19 5:01	文件	6 KB
AUTHORS	2019/12/19 5:01	文件	1 KB
autogen.sh	2019/12/19 5:01	Shell Script	1 KB
uild.sh	2019/12/19 5:01	Shell Script	1 KB
ChangeLog	2019/12/19 5:01	文件	5 KB
config.guess	2019/12/19 5:01	GUESS 文件	45 KB
config.sub	2019/12/19 5:01	SUB 文件	35 KB
configure	2019/12/19 5:01	文件	545 KB
configure.ac	2019/12/19 5:01	AC 文件	3 KB
COPYING	2019/12/19 5:01	文件	18 KB
depcomp	2019/12/19 5:01	文件	24 KB
Dockerfile	2019/12/19 5:01	文件	1 KB
install-sh	2019/12/19 5:01	文件	14 KB
libdxfrw.dox	2019/12/19 5:01	DOX 文件	10 KB
libdxfrw.pc.in	2019/12/19 5:01	IN 文件	1 KB
Itmain.sh	2019/12/19 5:01	Shell Script	277 KB
Makefile.am	2019/12/19 5:01	AM 文件	1 KB
Makefile.in	2019/12/19 5:01	IN 文件	25 KB
makefile.mingw	2019/12/19 5:01	MINGW 文件	12 KB
missing	2019/12/19 5:01	文件	7 KB
NEWS	2019/12/19 5:01	文件	1 KB
README	2019/12/19 5:01	文件	1 KB
** README.md	2019/12/19 5:01	Markdown File	2 KB
TODO	2019/12/19 5:01	文件	1 KB
编译libdxfrw			
通用脚本 (unix)			
V=1(30-44. (2111V)			
autoreconf -vfi (option	al)		

Windows VC++编译

- 使用VS2013打开vs2013 \ libdxfrw.sln
- 构建解决方案还有一个依赖于libdxfrw的dwg到dxf转换器,可以以相同的方式构建。

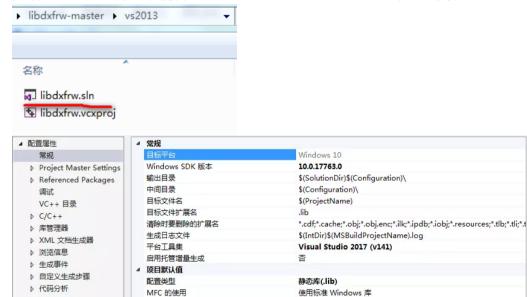
使用多字节字符集

无公共语言运行时支持

使用链接时间代码生成

- 使用VS2013打开dwg2dxf\vs2013\dwg2dxf.sln
- 构建解决方案

我采用VS2017版本,直接打开libdxfrw-master/vs2013/libdxfrw.sln,如下图所示:



源文件存放在src目录下,比之前dxflib的源文件多了很多!

字符集

目标平台 项目的当前目标平台。

公共语言运行时支持

.NET 目标框架版本 全程序优化

Windows 应用商店应用支持

直接构建build, 我这里有个编译错误:

```
解决办法: 非const转const, 强转一下即可!
```

```
iconv_t ic;
ic = iconv_open(out_encode, in_encode);
size_t il = BUF_SIZE-1, ol = BUF_SIZE-1;
iconv(ic, const_cast<const char**>(&in_ptr), &il, &out_ptr, &ol);
iconv_close(ic);

return std::string(out_buf);
```

再次编译通过,在libdxfrw-master\vs2013\Debug或Release生成静态库文件libdxfrw.lib。

**** drw_dbg.obj** 2020/2/18 15:07 Object File 1,262 KB drw_entities.obj** 2020/2/18 15:07 Object File 2,015 KB drw_header.obj** 2020/2/18 15:07 Object File 1,712 KB drw_objects.obj** 2020/2/18 15:07 Object File 1,471 KB drw_textcodec.obj** 2020/2/18 15:07 Object File 2,364 KB dwgbuffer.obj** 2020/2/18 15:07 Object File 1,903 KB dwgreader.obj** 2020/2/18 15:07 Object File 2,942 KB dwgreader15.obj** 2020/2/18 15:07 Object File 2,479 KB dwgreader18.obj** 2020/2/18 15:07 Object File 2,586 KB dwgreader21.obj** 2020/2/18 15:07 Object File 2,586 KB dwgreader24.obj** 2020/2/18 15:07 Object File 2,318 KB dwgreader27.obj** 2020/2/18 15:07 Object File 2,318 KB dwgreader27.obj** 2020/2/18 15:07 Object File 2,318 KB dwgreader.obj** 2020/2/18 15:07 Object File 2,318 KB dwgreader.obj** 2020/2/18 15:07 Object File 1,138 KB dwfreader.obj** 2020/2/18 15:07 Object File 1,138 KB dxfreader.obj** 2020/2/18 15:07 Object File 1,138 KB dxfreader.obj** 2020/2/18 15:07 Object File 2,393 KB libdxfrw.lob** 2020/2/18 15:07 Object File 2,393 KB libdxfrw.lob** 2020/2/18 15:07 Object File 2,393 KB libdxfrw.lob** 2020/2/18 15:07 Object File 2,495 KB libdxfrw.lob** 2020/2/18 15:07 Object File 2,495 KB libdxfrw.obj** 2020/2/18 15:07 Object File 2,415 KB libdxfrw.obj** 2020/2/18 15:07 Program Debug 1,988 KB	· · · · · · · · · · · · · · · · · · ·	, , ,		~
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如何使用libdxfrw: https://forum.librecad.org/How-to-use-libdxfrw-td5713395.html

此外,压缩包里还包含两个examples:

1、dwg2text:从dwg/dxf文件中提取文本 (read)

```
3 **
                                                                              **
4 **
                                                                              **
      Copyright (C) 2015 José F. Soriano, rallazz@gmail.com
5 **
                                                                              **
                                                                              **
6 ** This library is free software, licensed under the terms of the GNU
                                                                              **
      General Public License as published by the Free Software Foundation,
8 ** either version 2 of the License, or (at your option) any later version.
9 ** You should have received a copy of the GNU General Public License
10 ** along with this program. If not, see <<a href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</a>>.
12
13 #include <iostream>
14 #include <fstream>
15 #include <sys/stat.h>
16
17 #include "dx iface.h"
18 #include "dx_data.h"
19
20 void usage(){
21
      std::cout << "Usage: " << std::endl;</pre>
22
      std::cout << " dwg2text <input>" << std::endl << std::endl;</pre>
                                 dwg or dxf file to extract text" << std::endl;</pre>
      std::cout << " input</pre>
23
24 }
25
26 bool extractText(std::string inName){
27
      bool badState = false;
28
      //verify if input file exist
29
      std::ifstream ifs;
30
      ifs.open (inName.c_str(), std::ifstream::in);
31
      badState = ifs.fail();
32
      ifs.close();
33
      if (badState) {
34
          std::cout << "Error can't open " << inName << std::endl;</pre>
35
          return false;
36
      }
37
38
      dx data fData; // 存储cad数据的容器类对象
      dx iface *input = new dx iface();
39
      badState = input->printText(inName, &fData); // 读取cad文件并填充到cad数据容器类对象中,再找出text3
40
41
      if (!badState) {
42
          std::cout << "Error reading file " << inName << std::endl;</pre>
43
          return false;
44
      }
```

```
return badState;
48 }
49
50 int main(int argc, char *argv[]) {
51
       bool badState = false;
52
       std::string outName;
       if (argc != 2) {
53
54
           usage();
55
           return 1;
56
       }
57
58
       std::string fileName = argv[1];
59
60
       if (badState) {
61
           std::cout << "Bad options." << std::endl;</pre>
62
           usage();
63
           return 1;
       }
64
65
66
       bool ok = extractText(fileName);
67
       if (ok)
68
           return 0;
69
       else
70
           return 1;
71 }
```

2、dwg2dxf: 将dwg转换为dxf (read/write)

```
1 bool convertFile(std::string inName, std::string outName, DRW::Version ver, bool binary, bool overwrite)
2
      bool badState = false;
      //verify if input file exist
      std::ifstream ifs;
      ifs.open (inName.c_str(), std::ifstream::in);
6
      badState = ifs.fail();
      ifs.close();
8
      if (badState) {
9
           std::cout << "Error can't open " << inName << std::endl;</pre>
          return false;
10
11
12
      //verify if output file exist
13
       std::ifstream ofs;
```

首页 资讯 开源长廊 专区 问答 活动 软件库 发现 博客 Gitee

```
登录 注册
```

```
16
       ots.close();
17
       if (!badState) {
18
           if (!overwrite){
19
               std::cout << "File " << outName << " already exist, overwrite Y/N ?" << std::endl;</pre>
20
               int c = getchar();
21
               if (c == 'Y' || c=='y')
22
23
               else {
24
                   std::cout << "Cancelled.";</pre>
25
                   return false;
26
27
28
       }
29
       //All ok proceed whit conversion
       //class to store file read:
30
31
       dx_data fData;
32
       //First read a dwg or dxf file
33
       dx_iface *input = new dx_iface();
34
       badState = input->fileImport( inName, &fData );
35
       if (!badState) {
36
           std::cout << "Error reading file " << inName << std::endl;</pre>
37
           return false;
38
       }
39
40
       //And write a dxf file
41
       dx_iface *output = new dx_iface();
42
       badState = output->fileExport(outName, ver, binary, &fData);
43
       delete input;
44
       delete output;
45
46
       return badState;
47 }
```

在编译example工程的时候, 出现了链接错误:

参考 https://blog.csdn.net/qq_38940896/article/details/88181435

在编译lindxfrw.lib的时候需要链接一下libiconv.lib,该lib文件在libdxfrw-master\vs2013\packages目录下找到,分为dynamic和satic,我这里分别取名:libiconv_dynamic.lib和libiconv_static.lib,然后重新设置libdxfrw的工程配置:我这里以win32 Debug配置为例



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