qgis2.14.11 的编译

——WIN10+VS2010+QT4

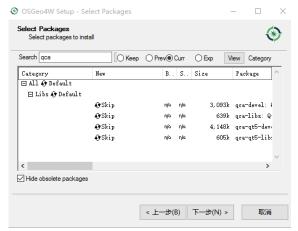
王一伊

一、准备工作

- 1. 下载 cmake-3.0.2, bison、flex (32bit);
- 2. 安装 VS2010;
- 3. 在 OSGeo4W (32bit) 中下载以下库:
- expat
- fcgi
- gdal
- grass
- gsl-devel
- iconv
- pyqt4
- qt4-devel
- qwt5-devel-qt4
- sip
- spatialite
- libspatialindex-devel
- python-qscintilla
- (1) 第一步选择 Advanced Install,接下来默认下一步

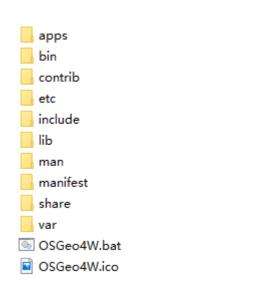


(2) 分别将上述库输入到搜索框中,选择 Libs 目录下的文件,并点击 Skip

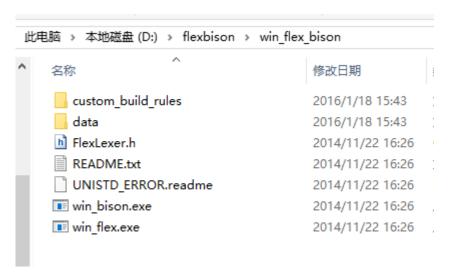


其中 qca 库需要单独下载; qwt5-devel-qt4 由于 32 位的 0SGE04W 直接搜索不到,因此我分为 qwt、qt4 分别搜索并下载。

(3) 全部选择好后点下一步它会自动下载安装,安装好后重启电脑即可。



(4) bison、flex 的下载方式同理。



4. qgis2. 14. 11 源码

在官网下载解压即可如果想下载最新版本的源码,可以下载 git 后点击 git bash 输入如下命令(以我的电脑为例) cd d cd qgis2.14.11 mkdir qgis cd qgis git clone https://github.com/qgis/QGIS

```
wyy1996@dell MINGW64 /d/qgis2.14.11/qgis (master)
$ git clone https://github.com/qgis/QGIS
Cloning into 'QGIS'...
remote: Counting objects: 515628, done.
remote: Compressing objects: 100% (20/20), done.
Receiving objects: 8% (41251/515628), 8.47 MiB | 1.12 MiB/s
```

二、CMAKE 导出工程文件

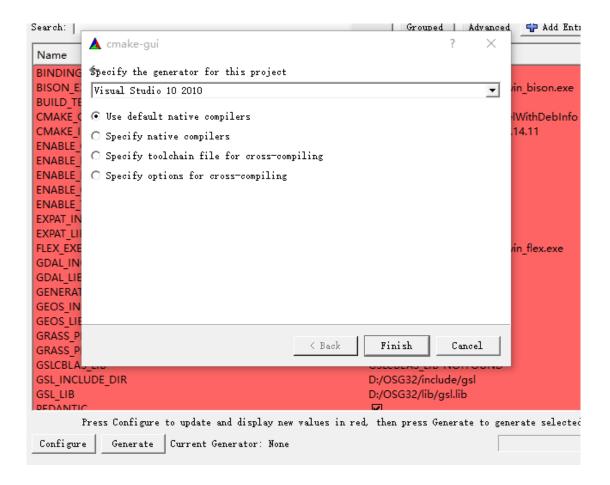
1. 选择源码文件夹和导出工程的文件夹

▲ CMake 3.0.2 - D:/qgis2.14.11/newbuild

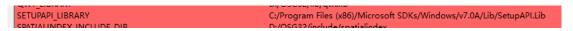
```
Where is the source code: D:/qgis2.14.11/qgis-2.14.11

Where to build the binaries: D:/qgis2.14.11/newbuild
```

2. 点击 configure 选择编译的 VS 版本



- 3. 再次点击 configure 会提示设置 flex 和 bison 的路径
- 4. 不断的 configure 并设置好每个库的 include 和 lib (注意 include 一定要包含对应库的头文件)
- 5. 在设置 python 时会提醒版本过低,因此需要自行到官网下载高版本的 python
- 6. 设置好全部路径后最后设置 SETUPAPI

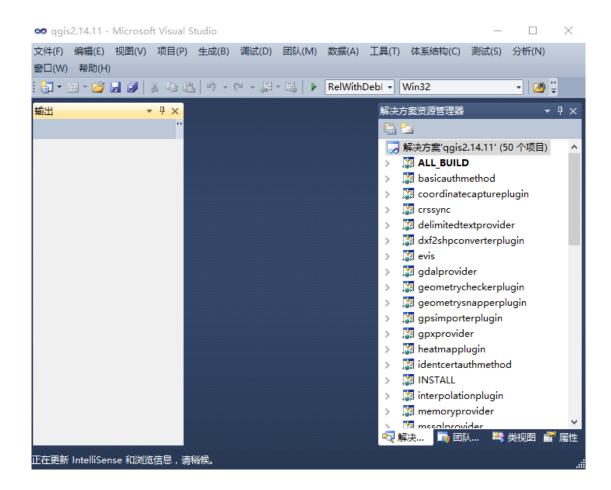


- 7. 出现 configure done 后点击 generate
- 8. 以下是所有依赖库的路径设置,以及 WITH 选项的选择

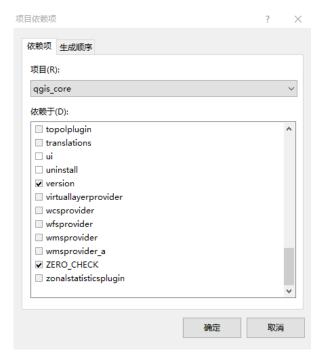
| BINDINGS_GLOBAL_INSTALL | |
|---|--|
| BISON_EXECUTABLE | D:/flexbison/win_flex_bison/win_bison.exe |
| BUILD_TESTING | |
| CMAKE_CONFIGURATION_TYPES | Debug;Release;MinSizeRel;RelWithDebInfo |
| CMAKE_INSTALL_PREFIX | C:/Program Files (x86)/qgis2.14.11 |
| ENABLE_COVERAGE | |
| ENABLE_MODELTEST | |
| ENABLE PGTEST | |
| ENABLE_QT5 | |
| ENABLE_TESTS | |
| EXPAT_INCLUDE_DIR | D:/OSG32/include |
| EXPAT LIBRARY | D:/OSG32/lib/libexpat.lib |
| FLEX_EXECUTABLE | D:/flexbison/win flex bison/win flex.exe |
| GDAL_INCLUDE_DIR | D:/OSG32/include |
| GDAL LIBRARY | D:/OSG32/lib/gdal_i.lib |
| GENERATE_COVERAGE_DOCS | |
| GEOS_INCLUDE_DIR | D:/OSG32/include |
| GEOS_LIBRARY | D:/OSG32/lib/geos_c.lib |
| GRASS_PREFIX | 5 y 5 5 5 5 1 m 2 y 5 5 5 1 m 5 |
| GRASS_PREFIX7 | |
| GSLCBLAS_LIB | GSLCBLAS_LIB-NOTFOUND |
| _ | |
| GSL_INCLUDE_DIR | D:/OSG32/include/gsl |
| GSL_LIB | D:/OSG32/lib/gsl.lib |
| | _ |
| PEDANTIC | |
| POSTGRESQL_PREFIX | |
| PROJ_INCLUDE_DIR | D:/OSG32/include |
| PROJ_LIBRARY | D:/OSG32/lib/proj_i.lib |
| PYTHON_VER | 2.7 |
| QCA_INCLUDE_DIR | D:/OSG32/include/qt4/QtCrypto |
| QCA_LIBRARY | D:/OSG32/lib/qca.lib |
| QSCINTILLA_INCLUDE_DIR | D:/OSG32/include/qt4 |
| | D:/OSG32/lib/qscintilla2.lib |
| QSCINTILLA_LIBRARY | |
| QT_DOC_URL | http://doc.qt.io/qt-4.8/ |
| QT_QMAKE_EXECUTABLE | D:/OSG32/bin/qmake.exe |
| QWTPOLAR_INCLUDE_DIR | QWTPOLAR_INCLUDE_DIR-NOTFOUND |
| QWTPOLAR_LIBRARY | QWTPOLAR_LIBRARY-NOTFOUND |
| | D:/OSG32/include/qwt |
| QWT_INCLUDE_DIR | |
| QWT_INCLUDE_DIR QWT_LIBRARY | D:/OSG32/lib/qwt.lib |
| | |
| QWT_LIBRARY | D:/OSG32/lib/qwt.lib |
| QWT_LIBRARY SETUPAPI_LIBRARY | D:/OSG32/lib/qwt.lib C:/Program Files (x86)/Microsoft SDKs/Windows/v7.0A/Lib/SetupAPI.Lib |
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三、VS2010 编译

1. 打开工程文件后如图所示



2. 查看 qgis 各个项目的依赖项



3. 然后按如下顺序逐个生成项目 ZERO_CHECK

ui

version
qgis_core
qgis_gui

qgis_analysis

qgis_app

qgis

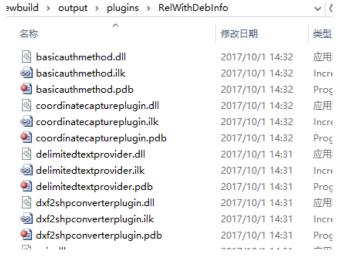
gdalprovider

ogrprovider

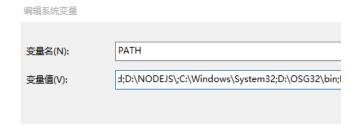
全部编译好后在 output/bin/RelWithDebInfo 中生成相关的文件

| 🌠 qgis.exe | 2017/9/29 20 |
|----------------------------|--------------|
| 🗐 qgis.ilk | 2017/9/29 20 |
| 🖭 qgis.pdb | 2017/9/29 20 |
| 🚳 qgis_analysis.dll | 2017/9/29 19 |
| 🗐 qgis_analysis.ilk | 2017/9/29 19 |
| 🖭 qgis_analysis.pdb | 2017/9/29 19 |
| dgis_app.dll | 2017/9/29 20 |
| 🗐 qgis_app.ilk | 2017/9/29 20 |
| 🖭 qgis_app.pdb | 2017/9/29 20 |
| qgis_core.dll | 2017/9/29 19 |
| 🗐 qgis_core.ilk | 2017/9/29 19 |
| 🖭 qgis_core.pdb | 2017/9/29 19 |
| qgis_gui.dⅡ | 2017/9/29 19 |
| 🗐 qgis_gui.ilk | 2017/9/29 19 |
| 🖭 qgis_gui.pdb | 2017/9/29 19 |
| qgis_networkanalysis.dll | 2017/10/1 14 |
| 🖭 qgis_networkanalysis.pdb | 2017/10/1 14 |
| | |

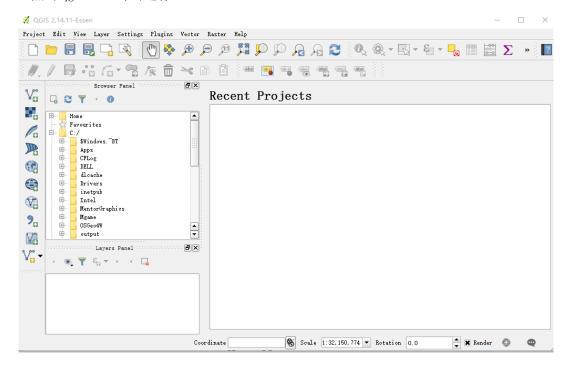
4. 再根据需要编译其他相关项目,会在 output/plugins/RelWithDebInfo 中生成



5. 将 qgis 需要的相关 dll (在 bin 目录中)加入到环境变量



6. 点击 qgis. exe 即可运行



- 1. CMAKE 中遇到的错误: 主要是路径设置的错误,设置好库的路径即可
- 2. VS2010 编译中遇到的错误:

(1) 生成 qgis_app 时出现:

LINK: fatal error LNK1104: 无法打开文件

"E:\newggis\Build\output\bin\RelWithDebInfo\ggis app. dll"

原因:上次编译失败的 qgis_app. dll 没有删除,此时一边修改一边创建便会出现错误。

解决方法: 清理该项目并重新生成

(2) 生成 qgis_core 时出现

error C2143: 语法错误: 缺少")"(在";"的前面)

error C2001: 常量中有换行符

原因:编码问题。

解决方法:用 NOTEPAD++打开该文件并将编码改为 UTF-8 再保存。

error LNK2026: 模块对于 SAFESEH 映像是不安全的

解决方法:

打开该项目属性设置中的链接器的命令行页面,将 /SAFESEH:NO 键入"附加选项"框中,然后点击应用。

fatal error C1083: 无法打开包括文件: "XXXX.h": No such file or directory 原因: 在 CMAKE 过程中的 include 路径设置文件夹中没有包含该头文件。

解决方法:修改路径包括头文件后重新 CMAKE。

(3) 生成 qgis gui 时出现:

error LNK2019: 无法解析的外部符号 "__declspec(dllimport) public: __thiscall

QwtInterval Sample:: QwtInterval Sample (class

QwtIntervalSample const &)" (__imp_??0QwtIntervalSample@@QAE@ABVO@@Z),该符号在函数"private: void __thiscall QVector<class QwtIntervalSample>::realloc(int,int)"

(?realloc@?\$QVector@VQwtIntervalSample@@@@AAEXHH@Z) 中被引用

原因:项目配置中多加了 QWT 的 DLL

解决方法: 在项目属性中的预处理器定义将 QWT_DLL 删除

error LNK2038: 检测到 "_MSC_VER"的不匹配项: 值 "1600"不匹配值 "1700 **原因:** QT4 需要由 VS2010 编译,而我用的是 VS2012

解决方法:由于最初是用 VS2012 编译,在项目配置中将平台工具集由 2012 改为 2010。

3. 编译成功后遇到的错误:

运行 QGIS. EXE 后出现应用程序无法正常启动(OXC000007B)

原因: 电脑中存在多个 QT 版本,用 QT5 的 QMAKE 编译后 QT4 和 QT5 的 DLL 混用。

用 64 位的 QT 编译 32 位的 QGIS,通过 depends 查看该程序的依赖发现部分 DLL 为 64 位不匹配。

解决方法: 更换 QT 版本(我使用的是 32 位的 QT4)。

运行 QGIS. EXE 后出现 QGIS. EXE 已停止工作

原因: 在 VS2012 中部分项目用 2010 平台工具集编译,部分用 2012 工具集编译

解决方法: 所有项目都在 VS2010 中编译

运行 QGIS. EXE 后部分图标无法显示

原因: 找不到 qsvg4. dl1

解决方法: 将..\OSG32\apps\Qt4\plugins 中的 imageformats 文件夹复制丢到..\qgis2.14.11\newbuild\output\bin\RelWithDebInfo 文件夹中。

运行 QGIS. EXE 之后出现"Authentication System: DISABLED. Resources authenticating via the system can not be accessed"

原因: 找不到 qca 的 qca-ossl. dll。

解决方法: 将下载的 qca-ossl. dll (OpenSSL plugin for QCA) 放到 QT 的 bin 中