

# PostGIS 1.1.0 Windows Builds Instructions

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### Abstract

This article deals with compiling PostGIS 1.1.0 on Windows. The tests have been done on a SONY VAIO PCG FR215E and a SONY VAIO VGN FS315H. This article has been written by a French guy. So excuse-me for my bad English.

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This article deals with compiling PostGIS 1.1.0 on Windows. The tests have been done on a SONY VAIO PCG FR215E and a SONY VAIO VGN FS315H. This article has been written by a French guy. So excuse-me for my bad English.

## 1 Requirements.

We need a complete MinGW/Msys distribution on Windows in order to build our tools.

### 1.1 MinGW, Msys and MsysDTK

Download the following tools:

MinGW: <http://www.mingw.org/download.html> (Get version 5.0.0.exe or 4.0.1.exe)

Msys: <http://www.mingw.org/download.html> (Get version 1.0.8.exe)

MsysDTK <http://www.mingw.org/download.html> (Get version 1.0.1.exe)

When you install Msys, you will be prompted for free questions (a DOS window will open). Answer by

question 1: y

question 2: y

question 3: c:/MinGW

There are other tools to install

### 1.2 Other tools

Go to the following URL <http://gnuwin32.sourceforge.net/packages.html>. In order to compile PostgreSQL, I'm used to using the following tools:

bison

zlib

Flex

GetText

LibIconv

Install them to c:\MinGW.

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### 1.3 Resume

The versions used here for the tools above are

MinGW MinGW-5.0.0.exe

Msys MSYS-1.0.8.exe

MsysDTK msysDTK-1.0.1.exe

bison bison-2.1.exe

zlib zlib-?.exe

Flex flex-2.5.4a-1.exe

Gettext gettext-0.14.4.exe

libiconv libiconv-1.8.1-bin.exe

## 2 Compilations

Here, we will install our GIS tools. First, we are going to make the directory where our tools will be installed. So double-click on c:\msys

```
mkdir
```

### 2.1 PostgreSQL 8.1.1

Download PostgreSQL from <ftp://ftp.fr.postgresql.org/source/v8.1.1/postgresql-8.1.1.tar.gz> and do

```
cd /path/where/you/have/downloaded/postgresql-8.1.1.tar.gz
tar xvzf postgresql-8.1.1.tar.gz
cd postgresql-8.1.1
configure --prefix=/c/PostgreSQL/8.1.1 --with-CXX --enable-multibyte --enable-nls
make
make install
```

### 2.2 Geos 2.2.1

Download Geos from <http://geos.refrations.net/geos-2.2.1.tar.bz2> and do

```
tar xvjf geos-2.2.1.tar.bz2
cd geos-2.2.1
configure --prefix=/c/PostgreSQL/8.1.1 && make && make install
```

## 2.3 Proj 4.4.9

Download Proj from <ftp://ftp.remotesensing.org/proj/proj-4.4.9.tar.gz> then do

```
tar xvzf proj-4.4.9.tar.gz
cd proj-4.4.9
configure --prefix=/c/PostgreSQL/8.1.1 && make && make install
```

We need to create libproj.dll. So we do

```
cd /c/PostgreSQL/8.1.1/lib
gcc -shared -o libproj.dll -Wl,--out-implib=libproj.dll.a -Wl,--export-all-symbols -Wl,\
--enable-auto-import -Wl,--whole-archive libproj.a -Wl,--no-whole-archive /c/mingw/lib/ ←
libmingw32.a
```

## 2.4 PostGIS 1.1.0

Download PostGIS from <http://postgis.refractions.net/download/postgis-1.1.0.tar.gz> then do

```
tar xvzf postgis-1.1.0.tar.gz
```

We need to modify our PATH environment variable

```
export PATH=/c/PostgreSQL/8.1.1/bin:/c/PostgreSQL/8.1.1/lib:$PATH
```

We have to modify postgis-1.1.0/configure.in. Open this file, and replace on line 455 the following line

```
PGFELIBS="` ${PGCONFIG} --libdir ` /libpq.dll "
```

by this one:

```
PGFELIBS="$(echo `${PG_CONFIG} --libdir` /libpq.dll) "
```

Then from MinGW, do

```
configure
make
make install
```

## 3 About this document

This document was written by Jean David TECHER. First release on 2006-01-01 / 00:15. The PDF version of this document was got by using dblatex (<http://dblatex.sourceforge.net>)