ECPG and PHP

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Software that can be used in UIS (Linux / MacOS / Windows)

ECPG

- ECPG comes with PostgreSQL. It will take your *.pgc source code and output a *.c file, that you then can compile using a C compiler. If you do not have a C compiler installed, I suggest GCC.

- Linux: get GCC from: <https://linuxize.com/post/how-to-install-gcc-compiler-on-ubuntu-18-04/>
  When starting the install program make sure you do it as "**Superuser**"

- MacOS: get GCC from Homebrew: <https://brew.sh/>
  When starting the install program make sure you do it as "**Superuser**"

- Windows: get GCC from MSYS2: <https://www.msys2.org/>
  When starting the install program make sure you do it with "**Run as administrator**".
  In MSYS2 call: pacman -S mingw-w64-x86_64-toolchain (and add to your path: C:\msys64\mingw64\bin)

PHP and Apache2

If you do not have PHP and a Web server intalled on your computer, then I suggest WampStack.
It comes with PHP and the Apache2 webserver.

- Download WampStack from: <https://bitnami.com/stack/wamp/installer>
  When starting the install program make sure you do it as "**Superuser**" or with
  "**Run as administrator**".

Observe: WampStack comes with several tools for PHP (you can deselect these) and with MySql (you can ignore it).

Enable PHP and Apache2 for PostgreSQL

Do **NOT start** the Appache2 webserver before completing the following 3 changes:

- Edit the file **.../php/php.ini** and remove the character ';' (semi-colon) from the 2 lines:

  ;extension=pdo_pgsql

  ;extension=pgsql

  and save the file.

- Edit the file **.../apache2/conf/httpd.conf** and add the following line to the file:

  LoadFile "<path>/php/libpq.dll"

  where <path>is the path to the folder /php on your computer.

  (on my Windows 10 the line is: LoadFile "C:/Bitnami/wampstack-7.3.15-2/php/libpq.dll")

  and save the file.

Testing PHP and Apache2

Save a file **.../apache2/htdocs/phpinfo.php** with the following content:

```
<?php
phpinfo();
?>
```

Now start the web server using the application "WampStack Manager" and open your browser and link to "http://localhost/phpinfo.php" or "http://127.0.0.1/phpinfo.php".

Enjoy!