How to compile pdftoipe on windows

This is short step-by-step manual to compile pdftoipe.exe on a windows system. It might give a shorter way to compile. I tested it on a Windows 7 64bit system.

1. MinGW:

   To compile you need a compiler for windows. I used MinGW. Download the latest MinGW from http://www.mingw.org/. You should take the automated MinGW installer (my version was: mingw-get-inst-20110316).

   Install it to `C:\MinGW\` (it is default, don't use spaces in path!). The install options should be C/C++ Compiler and MSYS.

2. Poppler:

   Now poppler is required. Download the latest poppler from http://poppler.freedesktop.org/ (my version was: poppler-0.16.5). Unpack the source to folder without spaces in path, e.g. `C:\poppler-x.xx.x\` (x.xx.x is the version)

   Now compiling poppler, start MinGW Shell (`C:\MinGW\msys\1.0\msys.bat`). Shell should be start now. Navigate to your poppler-path (`cd /c/poppler-x.xx.x`, attention in the shell you need '/' instead of '\').

   Now execute the four following commands:

   ```
   export␣ACLOCAL_FLAGS=-I/c/MinGW/share/aclocal/
   ./configure␣--prefix=/c/MinGW/
   make
   make␣install
   ```

   this might take some minutes.
   Those commands are taken from http://dirkgerrits.com/2009/10/28/xournal-on-windows/. All required dependencies should be created now.

3. pdftoipe:

   Download the latest pdftoipe version (my version was: pdftoipe-20110116). Unpack it to a folder, e.g. `C:\pdftoipe-20110116\`

   included `parseargs.c` can't compile with mingw. There are two solutions:

   a) rename `parseargs.c` to `parseargs.cc` .
      start mingw shell and navigate to pdftoipe folder. Execute the following command:

      `gcc␣-Wno-write-string␣-I/c/poppler-x.xx.x/␣-o␣-c␣parseargs.o␣parseargs.cc`

      `parseargs.o` should be created now.

b) copy `parseargs.o` from C:\poppler-x.xx.x\utils\to the pdftoipe folder (This was compiled from poppler in step two).

On mingw shell execute the following command:

```
g++␣-Wno-write-strings␣-I/c/poppler-x.xx.x/␣-I/c/poppler-x.xx.x/poppler/
␣-c␣-o␣xmloutputdev.o␣xmloutputdev.cpp
```

`xmloutputdev.o` should be created now. Next command is:

```
g++␣-Wno-write-strings␣-I/c/poppler-x.xx.x/␣-I/c/poppler-x.xx.x/poppler/
␣-c␣-o␣pdftoipe.o␣pdftoipe.cpp
```

This command should be generated `pdftoipe.o`. The next command create the executive file:

```
g++␣-o␣pdftoipe␣parseargs.o␣xmloutputdev.o␣pdftoipe.o␣-L/c/MinGW/lib␣-lpoppler
```

`pdftoipe.exe` should created now. Make sure that the folder `C:\MinGW\bin` is set to your PATH variable. If you want to use `pdftoipe.exe` on an other pc or without PATH variable you need the following dlls

- `libgcc_s_dw2-1.dll`
- `libpoppler-13.dll`
- `libstdc++-6.dll`

in the same folder where `pdftoipe.exe` is. The dlls are in `C:\MinGW\bin` .

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