

A note regarding the installation of POLYLIB

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This short note contains a few remarks regarding the installation of POLYLIB.

1 Installing the version of Strasbourg

I got the most recent available version of POLYLIB on site

`http://icps.u-strasbg.fr/~loechner/polylib`

and I tried to install it. In this version, the installation documentation is correct, as `autoload.sh` does not need to be run prior to `configure`. By running only

```
./configure --prefix="$MMALPHA/sources/Poly"  
make  
make install
```

The second command runs the `configure` tool that creates `makefiles` and prepares libraries. The `--prefix` option specifies where the POLYLIB is to be created.

The third commands compiles everything, and the `make install` command creates the library. It adds binary files in the directory `path/bin`, libraries in directory `path/lib`, and finally, include files in directory `path/include`.

I got a runnable version, that I checked using `make longest`. The `make test` command indicated in the install documentation does not work.

In this package, the html documentation is available, but the latex source files are not.

The documentation is also available.

2 Tests

Running `make check` runs the tests which are in directory `Tests`.

3 Additional remarks

Depending on whether you are on PPC or Intel processor, you have to recompile the Polylib. But this is not sufficient to generate a correct Domlib: you should recompile Domlib, and make sure that *Read_Alpha and other software are also recompiled*, as currently, this is how the `lib.darwin` directory is updated. If you do not do so, then compiling Domlib may fail.

4 Exploring web sites

There are now several libraries for doing polyhedral computations. A survey of what these libraries do (or cannot do) would be useful.