PeRIPLO - BuildPeRIPLOFromSources.wiki

Requirements

The current districation has been successfully compiled and tested under Linux. In order to compile PeRIPLO you need: * gcc/g++ >= 4.3.2 * autotools * flex * bison * libtool * The GNU Multiple Precision library (GMP)

Quick Tip for Ubuntu Users

On Ubuntu 8.10+

```
sudo apt-get install g++

sudo apt-get install libtool

sudo apt-get install bison flex


$ sudo apt-get update

$ sudo apt-get install autoconf
```

Download and Install GMP

Finally you need to download GMP from ftp://ftp.gmplib.org/pub/gmp-5.1.1/gmp-5.1.1.tar.bz2 and put it in the PeRIPLO root.

```
$ tar jxvf gmp-5.1.1.tar.bz2

$ cd gmp-5.1.1

$ ./configure --enable-cxx

$ make

$ make check

$ sudo make install
```

Pay attention to the flag `--enable-cxx` in configuration, necessary for producing C++

linkable library.

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- Create a directory (e.g. `build`) that will contain the object files and the executable, and change into it `mkdir build`

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Compile

From the root directory of PeRIPLO:

```
$     libtoolize
$     autoreconf --install --force
```

- Generate Makefiles and compile:
- create a directory in home separately name libs. the library path (to be specified in the --prefix), we suggest to create some directory like ~/home/libs/ and use it.

```
$ ../configure --enable-proof --enable-library --disable-optimization --enable-fulllabeling --prefix=/home/libs
$ make
& sudo make install
```

- if you're asked to "run \"make distclean\" there first", it means, you should run "make distclean" and then repeat the attempt to configure.

In the end, you should find an executable named periplo in the same directory.

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If you do not plan to use PeRIPLO as a standalone tool, but you want to make use of its features via API, you can generate libraries by using: `../configure --enable-library ;make`

Assuming you are in the build directory, libraries can be found in `src/.libs` as `libperiplolibrary.`

Configuration options

It is possible to generate special executables, by specifying command-line options to configure:

- Debugging version: disables optimizations to allow assertion checking

    `../configure --disable-optimization`

- Proof-logging version: enables the generation of resolution proofs as DAGs and the computation of Craig interpolants `../configure --enable-proof`

Run

The command to run PeRIPLO is

`./periplo --config=<config_file_name> <smtlib2_benchmark_name>`

If the configuration file does not exist yet, a default one will be created.

Additional information can be found at Tutorial.