Sparkle user guide

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1 Required packages

1.1 On Grace

Grace is the computing cluster of the ADA group¹ at LIACS, Leiden University. Since not all packages required by Sparkle are installed on the system, some have to be installed local to the user.

Specifically, epstopdf is required for Sparkle's reporting component to work (e.g. generate_report, generate_report_for_configuration), it can be installed in your user directory as follows:

```
    Download epstopdf
    wget http://mirrors.ctan.org/support/epstopdf.zip
```

- 2. Unzip the package unzip epstopdf.zip
- 3. Rename epstopdf.pl (inside the directory you just unzipped) mv epstopdf.pl epstopdf
- 4. Add this line to your .bashrc (open with e.g. vim ~/.bashrc)
 export PATH="/<directory>/epstopdf:\$PATH"
 (replace "<directory>" with the path to the epstopdf directory)

1.2 Yahsp example

1. Install gmp on Grace

```
wget https://gmplib.org/download/gmp/gmp-6.1.2.tar.xz
tar -xf gmp-6.1.2.tar.xz
Inside the gmp-6.1.2 directory:
   ./configure
make
make check
```

¹http://ada.liacs.nl/

- 2. Navigate to the seq-agl-yahsp3 directory
- 3. Add the below after -fpermissive on line 24 of cpt-yahsp/CMakeLists.txt:
 - -I /home/blomkvander/lib/gmp-6.1.2/ -L /home/blomkvander/lib/gmp-6.1.2/.libs/ (replace /home/blomkvander/lib/ with the path where you installed gmp)
- 4. Compile yahsp with:
 - ./build
- 5. In yahsp/esegui.sh the line #!/bin/bash was added to the start of the file to allow Grace nodes to find the 'time' utility.