

# Sparkle developer guide

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## 1 Required packages

### 1.1 Sparkle on Grace

Grace is the computing cluster of the ADA group<sup>1</sup> 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.

### 1.2 Yahsp example

#### 1.2.1 Compiling Yahsp

Check what is needed when the yahsp binary is provided, and add this information to the User Guide

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
```
2. Navigate to the `seq-ag1-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.

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<sup>1</sup><http://ada.liacs.nl/>