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# Installation of ESO MIDAS

Please note: Since Ubuntu 14.10, a debian package of ESO MIDAS is available. It can be installed via

sudo apt-get install eso-midas

Some notes regarding the installation:

- The official MIDAS web page with detailed hardware and software requirements can be found here.
- The official MIDAS documentation is here
- This manual is meant for the installation in Linux (Ubuntu, Debian etc.), while some packages and tools might have different names in SuSe, Fedora etc.
- The installation requires a console and root rights (esp. to install the packages). If needed, the admin has to do that part. Beyond that it should be possible to install MIDAS without root rights.

## Package dependencies

The following packages need to be installed:

sudo apt-get install libmotif-dev libncurses5-dev libx11-dev libXext-dev
libXt-dev gfortran

## Create the MIDAS directory

Create the directory that shall contain the MIDAS installation:

mkdir midas

In our default installation this directory is located in the path \$HOME/opt/.

## **Download MIDAS**

Open a console, change to the midas directory, and connect to the FTP server:

ftp ftp.eso.org

The user name is ftp and the password is <your\_email\_address\_here>.

Remark: The following text is based on version 11FEB of MIDAS (11FEBpl1.0.tar.gz). At the moment, the latest version is 15SEPpl1.0 (15SEPpl1.0.tar.gz). The path /home/username/opt/midas/11FEB and all version numbers need to be adjusted to your installation.

Then get to the MIDAS directory on the server, download the archive and logout:

```
ftp> cd /midaspub/11FEB/sources
ftp> get README.sources
ftp> binary
ftp> get 11FEBpl1.0.tar.gz
ftp> get linux_intel.calib.tar.gz
ftp> quit
```

Then unpack the source files:

```
tar -zxvf 11FEBpl1.0.tar.gz
```

It's useful to set a symbolic link with a shorter name, e.g.

```
ln -s 11FEBpl1.0 11FEB
```

## The config script

The config script can be found in this directory:

```
cd 11FEB/install/unix/
```

then execute it

```
sh config
```

MIDAS will print the following output to the console

### Selection of the packages

Since, we are usually also interested in the optional packages (such as the packages for the BACHES

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spectrograph), we should select the following option

#### 3 - select all MIDAS packages

alternatively the following option

4 - select MIDAS core and packages of your choice

provides the opportunity to only install the required packages.

#### **Pre installation**

First select

#### 5 - preinstall MIDAS

Mostly the default settings can be used, if they are valid. installation files (for your system) to the MIDAS directory.



This step copies pre configured

#### Installation

Now select

#### 6 - install MIDAS

This installs MIDAS (how unexpected ). To follow the progress, open another console, and type

tail -f
/midas/11FEB/tmp/install.//<some\_number\_that\_needs\_to\_be\_looked\_up>//

### **Setup MIDAS**

The name of the machine and the email address for the user support can be adjusted with the following option

#### 8 - setup MIDAS

However, the default values are usually fine for most of the setup options.

Next, copy the executables to a directory that is listed in the \$PATH variable, e.g. /usr/local/bin (or add the directory to the \$PATH variable). Alternatively, only symbolic links can be created. This can be done for a single user or for all.

cp /home/username/opt/midas/11FEB/system/unix/inmidas /usr/local/bin

- cp /home/username/opt/midas/11FEB/system/unix/gomidas /usr/local/bin
- cp /home/username/opt/midas/11FEB/system/unix/helpmidas /usr/local/bin
- cp /home/username/opt/midas/11FEB/system/unix/drs /usr/local/bin

Furthermore, the MIDAS man-pages can be made available for all users. So copy them to a directory that is listed in the \$MANPATH variable, e.g. /usr/man/man.

- cp /home/username/opt/midas/11FEB/system/unix/manl/inmidas.l /usr/man/manl
- cp /home/username/opt/midas/11FEB/system/unix/manl/gomidas.l /usr/man/manl
- cp /home/username/opt/midas/11FEB/system/unix/manl/helpmidas.l /usr/man/manl
- cp /home/username/opt/midas/11FEB/system/unix/manl/readline.l /usr/man/manl

Alternative, add the path /home/username/opt/midas/11FEB/system/unix/manl to the \$MANPATH variable.

### Start MIDAS the first time

Create a tmp directory in midas and start it:

mkdir \$HOME/midas/tmp
cd \$HOME/midas/tmp
inmidas

Within the MIDAS environment execute this command

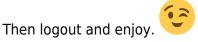
Midas 001> @ compile.all

This prints approximately 40 lines of text and exits MIDAS. The command

gomidas

returns to the MIDAS environment. Then run the following command to create the LUT and ITT files

Midas 002 > @ ascii bin



Midas 003 > bye

# **Verify MIDAS**

MIDAS offers the possibility to test and verify the installation. The first step in the verification process is to create the following directory

mkdir \$HOME/opt/midas/demo/data

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Subsequently, a path variable (MID TEST) to this directory needs to be created

export MID TEST=\$HOME/opt/midas/demo/data

Before downloading the necessary data from the ESO web page, the next step is to move into the above directory and to login into ESO via FTP again. The verification data can be retrieved with the following commands:

ftp> cd /midaspub/11FEB/sources
ftp> binary
ftp> get demo\_data.tar.gz
ftp> quit

Afterwards, the downloaded archive needs to be unpacked. The next step is to move to \$HOME/opt/midas/tmp and to run the verification process by starting MIDAS

inmidas

and executing

Midas 001> @ superverify

which tests the demo files and by this means verifies MIDAS.

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