Expertmaker Accelerator Installation Manual

1 Introduction

This document covers installation of the Accelerator. The Accelerator will run on anything from a small laptop to a large multi-CPU rack server. In this manual, it is assumed that the computer is running Ubuntu 16.04 LTS or Debian 9, but the Accelerator will run on many other Linuxes as well as FreeBSD. (Most of the development work has been carried out on FreeBSD.)

The Accelerator is typically not installed "system-wide". Instead, it is instantiated as part of a project. This manual describes how to set up an empty project "skeleton", where the Accelerator is included.

2 Installation

This will install an Accelerator project skeleton on a machine running Ubuntu 16.04 or Debian 9.

```
sudo apt-get install build-essential python-dev python3-dev zlib1g-dev git virtualenv

git clone https://github.com/drougge/accelerator_project_skeleton.git

cd accelerator_project_skeleton

./init.py
```

The next step is to edit the configuration file `conf/framework.conf` and change it to reflect the desired setup. The default configuration file assumes that some directories exists, so if the file left unchanged, create these directories by

```
mkdir -p ~/accelerator/workdirs/TEST
```

The Accelerator daemon is then started from inside the `accelerator` directory like this

```
cd accelerator
./daemon.py
```

The first time the Accelerator is run, it will compile some functions written in the C programming language. On some systems, this process may generate a few warnings, but that is okay. Setup is now complete.

3 Overview of the Installation

The Accelerator project skeleton will setup virtual environments for Python2 and Python3. It will `git clone` the `accelerator-gzutil` library and install in these virtual environments. The Accelerator itself is `git cloned` into a git submodule in the `accelerator` directory.

The default configuration file is located in `conf/framework.conf`. This file is used to specify workdirs, method directories, and more. For more information, see the Accelerator User's Reference Manual.

References

`https://berkeman.github.io/accelerator_doc_users_reference/accelerator_manual.pdf`