iTETRIS

Quick guide on how to install the iTETRIS platform.
The current version of iCS will work with ns3.20 and the applications provided in the svn
The platform should work with any version of Sumo. Tested with sumo0.22

Version

2015-04-08

Prerequisites

To successfully build the code under ubuntu the following libraries are needed:

    libxerces-c3.1
    autoconf
    automake
    libtool
    libxml++2.6-dev
    libfox-1.6-dev
    libgl1-mesa-dev
    libglu1-mesa-dev
    libgdal1-dev
    libproj-dev
    GeographicLib-1.36

Installation

iTETRIS is composed of four main components that have to be compiled and installed to successfully run the platform.
The following commands can be used to install the platform on ubuntu. The installation order is not important.

- Sumo installation

```
$ cd 'sumo-folder'
$ make -f Makefile.cvs
$ ./configure --with-xerces-libraries=/usr/local/lib --with-xerces-includes=/usr/local/include/xercesc
$ make
$ sudo make install
```

- ns3 installation

```
$ cd 'ns3-folder'
$ ./waf configure
$ ./waf
$ sudo ./waf install
```

- iCS installation

```
$ cd 'iCS-folder'
$ make -f Makefile.cvs
$ ./configure --enable-sumo --enable-ns3 --enable-applications --with-geographic-libraries=/usr/local/lib --with-geographic-inclu
$ make
$ sudo make install
```

- Application installation

```
$ cd 'application-folder'
$ libtoolize --force
$ aclocal
$ autoconf
$ automake -a
$ ./configure
$ make
$ sudo make install
```