Installation of BxJsontools (devel)

François Mauger, LPC Caen <mauger@lpccaen.in2p3.fr>

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In this document we propose an installation procedure for the BxJsontools C++ library, master branch, pre version 0.1.0, on top of Xubuntu 16.04 LTS (Xenial Xerus) for a system (64-bits).

BxJsontools is used by the Vire library for the SuperNEMO experiment.

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Links

- Cadfael (SuperNEMO Wiki)
- Cadfaelbrew repository (GitHub)
- BxJsontools repository (GitHub)
- Vire repository (SuperNEMO Wiki)

Download

```
$ mkdir -p /opt/sw/BxJsontools/Source
$ mkdir -p /opt/sw/BxJsontools/Binary
$ cd /opt/sw/BxJsontools/Source
$ git clone https://github.com/fmauger/bxjsontools.git
```

Installation

1. Create a build directory and start a brew (Cadfaelbrew) session:

```
$ cd /opt/sw/BxJsontools/Binary
$ mkdir -p /opt/sw/BxJsontools/Binary/build.d
$ cd /opt/sw/BxJsontools/Binary/build.d
$ brewsh
```

2. Build/install:

```
$ cmake \
-DCMAKE_INSTALL_PREFIX="/opt/sw/BxJsontools/Binary/install-0.1.0" \
-DBXJSONTOOLS_WITH_BOOST=ON \
-DBoost_DIR="/opt/sw/SuperNEMO-DBD/Cadfaelbrew" \
/opt/sw/BxJsontools/Source/bxjsontools
$ make -j4
$ make test
$ make install
...
```

3. Check:

```
$ LANG=C tree -L 1 /opt/sw/BxJsontools/Binary/install-0.1.0
/opt/sw/BxJsontools/Binary/install-0.1.0
|-- bin
|-- include
|-- lib
'-- share
$ /opt/sw/BxJsontools/Binary/install-0.1.0/bin/bxjsontools-query --version
0.1.0
```

Setup BxJsontools

```
In your .bashrc script, add:
    export BXJSONTOOLS_BASE_DIR=/opt/sw/BxJsontools
    function do_bxjsontools_010_setup()
      if [ -n "${BXJSONTOOLS_INSTALL_DIR}" ]; then
           echo "WARNING: BxJsontools is already setup !" >&2
           return 1
      fi
      export BXJSONTOOLS_INSTALL_DIR="${BXJSONTOOLS_BASE_DIR}/Binary/install-0.1.0"
      export PATH="${BXJSONTOOLS_INSTALL_DIR}/bin:${PATH}"
      echo "NOTICE: BxJsontools is now setup !" >&2
      return 0;
    export -f do_bxjsontools_010_setup
    # Special aliases:
    alias bxjsontools_setup="do_bxjsontools_010_setup"
  To setup the BxJsontools library from a terminal, run:
```

```
$ bxjsontools_setup
```

Check the bxjsontools-query utility:

```
$ which bxjsontools-query
/opt/sw/BxJsontools/Binary/install-0.1.0/bin/bxjsontools-query
```