

RAVE INSTALLATION README

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This document is for RAVE installation and linking of it with current K1.8 Analyzer

Prerequisites

RAVE toolkit requires Boost and CLHEP library. If not, please download these prerequisites.

Boost library is available in KEKCC. CLHEP version succeeded in RAVE install : 2.4.6.2

RAVE INSTALLATION

Unzip rave*.tar.gz into somewhere and run ./bootstrap and ./configure.

Please set environment variables for CLHEP. Otherwise configure it with

```
$ ./configure \  
  --with-clhep=/your/path/to/CLHEP  
  --with-clhep-libpath=/your/path/to/CLHEPLIB  
  --with-clhep-incpath=/your/path/to/CLHEPINC  
  --prefix=/your/path/to/install  
  --disable-java  
  CXXFLAGS=-std=c++11  
  LDFLAGS=-L/usr/lib64
```

More details and options are available on ./configure --help

Linking it with GenFit and K1.8Analyzer

Sample Makefile is summarized in MakeFile.gfRave. Please modify RAVE_DIR in Makefile to your path to RAVE Installation.

Environment variables

Path to RAVE and CLHEP is required. For example, add some lines to bash_profile.

```
$ export LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:/path/to/CLHEP/lib  
$ export LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:/path/to/RAVE/lib
```