

MokkaInstallationVariablesExample < CLIC < TWiki

```
#####  
#  
# Mokka initialization script for the SLC4 LXPLUS and LXBATCH  
#  
#####  
  
# Set the PWD to the G4WORKDIR, source this from the Mokka basedir  
export G4WORKDIR=${PWD}  
  
#####  
#geant4 setup script from the G4 Directory  
#This also sets up the clhep variable  
###source /afs/cern.ch/sw/geant4/releases/specific/slc4_amd64/gcc-3.4.6/geant4.9.2.ref02/setup.s  
#  
# This part is a copy from above mentioned file with a fix for the XERCESROOT variable that is mi  
#  
# Configuration parameters, for release  
#  
g4version="geant4.9.2.ref02"  
g4releases=/afs/cern.ch/sw/geant4/releases  
clhep=/afs/cern.ch/sw/lcg/external/clhep  
XercesC=/afs/cern.ch/sw/lcg/external/XercesC  
  
# Configuration parameters, for system and compiler  
#  
gccversion="3.4.6"  
os="slc4_amd64_gcc34"  
EXTRALIBS="-L/usr/X11R6/lib64"  
export EXTRALIBS  
clhepversion="2.0.4.2"  
XercesCversion="2.8.0"  
  
g++ --version | grep $gccversion > /dev/null  
#echo `g++ --version` | grep $gccversion  
if [ $? != 0 ]  
then  
    echo "It looks like your compiler settings are not suitable"  
    echo "The Operating system is expected to be $os"  
    echo "The compiler version should be g++ (GCC) $gccversion"  
    echo -n "The system reports that it is "; g++ --version  
    echo "Please set your PATH and LD_LIBRARY_PATH environment variables"  
  
else  
  
export XERCESROOT=${XercesC}/${XercesCversion}/${os}  
  
echo "Setting up the environment for $g4version"  
G4SYSTEM=Linux-g++  
G4INSTALL=$g4releases/share/$g4version  
G4LIB=$g4releases/specific/$os/$g4version/lib  
CLHEP_BASE_DIR=$clhep/$clhepversion/$os  
export G4SYSTEM G4INSTALL G4LIB CLHEP_BASE_DIR  
  
G4LEDDATA="$G4INSTALL/data/G4EMLOW"  
G4NEUTRONHPDATA="$G4INSTALL/data/G4NDL"  
G4LEVELGAMMADATA="$G4INSTALL/data/PhotonEvaporation"  
G4RADIOACTIVEDATA="$G4INSTALL/data/RadioactiveDecay"  
G4ELASTICDATA="$G4INSTALL/data/G4ELASTIC"  
G4ABLADATA="$G4INSTALL/data/G4ABLA"  
export G4LEDDATA G4NEUTRONHPDATA G4LEVELGAMMADATA G4RADIOACTIVEDATA G4ELASTICDATA G4ABLADATA  
  
# Geant 4 interface, visualisation and other variables  
G4UI_USE_TERMINAL=1  
G4UI_USE_TCSH=1
```

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```
G4UI_USE_GAG=1
G4UI_USE_XAW=1
G4UI_USE_XM=1
#
G4VIS_USE_DAWN=1
G4VIS_USE_DAWNFILE=1
G4VIS_USE_OPENGLX=1
G4VIS_USE_OPENGLXM=1
G4VIS_USE_RAYTRACER=1
G4VIS_USE_RAYTRACERX=1
G4VIS_USE_VRML=1
G4VIS_USE_VRMLFILE=1
#
G4LIB_USE_G3TOG4=1

# Geant 4 build variables
G4VIS_BUILD_VRML_DRIVER=1
G4UI_BUILD_XAW_SESSION=1
G4UI_BUILD_XM_SESSION=1
G4LIB_BUILD_G3TOG4=1
G4VIS_BUILD_OPENGLX_DRIVER=1
G4VIS_BUILD_RAYTRACERX_DRIVER=1
G4VIS_BUILD_OPENGLXM_DRIVER=1
G4UI_BUILD_TERMINAL_SESSION=1
G4UI_BUILD_GAG_SESSION=1
G4VIS_BUILD_RAYTRACER_DRIVER=1
G4VIS_BUILD_DAWNFILE_DRIVER=1
G4VIS_BUILD_DAWN_DRIVER=1
G4VIS_BUILD_VRMLFILE_DRIVER=1
G4LIB_BUILD_GDML=1

export G4UI_USE_TERMINAL G4UI_USE_TCSH G4UI_USE_GAG G4UI_USE_XAW G4UI_USE_XM
export G4VIS_USE_DAWN G4VIS_USE_DAWNFILE G4VIS_USE_OPENGLX G4VIS_USE_OPENGLXM
export G4VIS_USE_RAYTRACER G4VIS_USE_RAYTRACERX G4VIS_USE_VRML G4VIS_USE_VRMLFILE
export G4LIB_USE_G3TOG4

export G4VIS_BUILD_VRML_DRIVER G4UI_BUILD_XAW_SESSION G4UI_BUILD_XM_SESSION
export G4LIB_BUILD_G3TOG4 G4VIS_BUILD_OPENGLX_DRIVER
export G4VIS_BUILD_RAYTRACERX_DRIVER G4VIS_BUILD_OPENGLXM_DRIVER
export G4UI_BUILD_TERMINAL_SESSION G4UI_BUILD_GAG_SESSION
export G4VIS_BUILD_RAYTRACER_DRIVER
export G4VIS_BUILD_DAWNFILE_DRIVER G4VIS_BUILD_DAWN_DRIVER
export G4VIS_BUILD_VRMLFILE_DRIVER G4LIB_BUILD_GDML

if [ $LD_LIBRARY_PATH ]
then
    LD_LIBRARY_PATH=${G4LIB}:${CLHEP_BASE_DIR}/lib:${XERCESCROOT}/lib:${LD_LIBRARY_PATH}
else
    LD_LIBRARY_PATH=${G4LIB}:${CLHEP_BASE_DIR}/lib:${XERCESCROOT}/lib
fi
export LD_LIBRARY_PATH

if [ $G4WORKDIR ]
then
    echo "G4WORKDIR already set"
else
    echo "Setting G4WORKDIR"
    G4WORKDIR=$HOME/geant4/$g4version/$os
    export G4WORKDIR
fi

if [ ! -d $G4WORKDIR ]
then
    echo "Creating the G4WORKDIR directory $G4WORKDIR"
    mkdir -p $G4WORKDIR
fi
```

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```
# The following is used to store your executables
#           (in subdirectories, one per system)
if [ $G4BIN ]
then
  echo "G4BIN already set"
else

  G4BIN=$G4WORKDIR/bin;export G4BIN
fi

fi

#####

#Have to set the #G4System
export G4SYSTEM="Linux-g++"

#Need MYSQL

export MYSQL_PATH=/afs/cern.ch/sw/lcg/external/mysql/5.0.18/slc4_amd64_gcc34
export MYSQL_LIBDIR=${MYSQL_PATH}/lib
export MYSQL_UNIX_PORT=/var/lib/mysql/mysql.sock
export PATH=${MYSQL_PATH}/include:$PATH
export PATH=${MYSQL_PATH}/bin:$PATH
export LD_LIBRARY_PATH=${MYSQL_PATH}/lib:${LD_LIBRARY_PATH}

#Set other CLHEP Variables
export CLHEP=${clhep}/2.0.4.2/slc4_amd64_gcc34
#export CLHEP_BASE_DIR=${CLHEP}
export LD_LIBRARY_PATH=${CLHEP}/lib:${LD_LIBRARY_PATH}
export PATH=${CLHEP}/include:$PATH

#LCSoft on the CLIC AFS-SPACE
export LCSoft="/afs/cern.ch/eng/clic/software/ilcsoft/v01-06"

#LCIO/afs/cern.ch/sw/geant4/releases/specific/slc4_amd64/gcc-3.4.6/geant4.9.2.ref02/setup.sh
export LCIO="${LCSoft}/lcio/v01-11"
export LD_LIBRARY_PATH=${LCIO}/lib:${LD_LIBRARY_PATH}

#GEAR
export GEAR=${LCSoft}/gear/v00-11-01
export LD_LIBRARY_PATH=${GEAR}/lib:${LD_LIBRARY_PATH}

#Path to the Mokka installation
export PATH=/afs/cern.ch/eng/clic/software/Mokka/mokka-06-07-patch03/bin/Linux-g++:${PATH}

echo "Done setting up the Mokka environment"
```

-- AndreSailer - 20 Mar 2009

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