

Packaging : a New Pogo Feature



Since Pogo-8.3.0 – 29/11/2013
this feature give the possibility to package a Tango server using auto tools.

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this feature give the possibility to package a Tango server using auto tools.

Set the environment variable **PKG_CONFIG_PATH**

e.g. for tango.pc file : export PKG_CONFIG_PATH=\$TANGO_LIBS/pkgconfig

See **autotools** documentation for details on **pkg_config_path** management.

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```
debian7-devel
verdi@debian7-devel ~/starter $
verdi@debian7-devel ~/starter $
verdi@debian7-devel ~/starter $
verdi@debian7-devel ~/starter $ ls
CheckProcessUtil.cpp  Makefile          StarterClass.cpp  StarterService.h  StartProcessThread.cpp*
CheckProcessUtil.h    packaging/        StarterClass.h    StarterStateMachine.cpp  vc10_proj/
ClassFactory.cpp      PingThread.cpp   Starter.cpp        StarterUtil.cpp     vc9_proj/
doc_html/             PingThread.h     Starter.h          StarterUtil.h
main.cpp              ReleaseNotes     StarterService.cpp Starter.xmi
verdi@debian7-devel ~/starter $
verdi@debian7-devel ~/starter $
verdi@debian7-devel ~/starter $ cd packaging/
verdi@debian7-devel ~/packaging $ ./autogen.sh
autoreconf: Entering directory `.'
autoreconf: configure.ac: not using Gettext
autoreconf: running: aclocal --force -I m4
autoreconf: configure.ac: tracing
autoreconf: configure.ac: creating directory config
autoreconf: running: libtoolize --copy --force
libtoolize: putting auxiliary files in AC_CONFIG_AUX_DIR, `config'.
libtoolize: copying file `config/ltmain.sh'
libtoolize: putting macros in AC_CONFIG_MACRO_DIR, `m4'.
libtoolize: copying file `m4/libtool.m4'
libtoolize: copying file `m4/ltoptions.m4'
libtoolize: copying file `m4/ltugar.m4'
libtoolize: copying file `m4/ltversion.m4'
libtoolize: copying file `m4/lt-obsolete.m4'
autoreconf: running: /usr/bin/autoconf --force
autoreconf: running: /usr/bin/autoheader --force
autoreconf: running: automake --add-missing --copy --force-missing
configure.ac:15: installing `config/config.guess'
configure.ac:15: installing `config/config.sub'
configure.ac:9: installing `config/install-sh'
configure.ac:9: installing `config/missing'
src/Makefile.am: installing `config/depcomp'
autoreconf: Leaving directory `.'
verdi@debian7-devel ~/packaging $
```

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```
main.cpp      ReleaseNotes  StarterService.cpp  Starter.xmi
verdier@debian7-devel:~/starter$ ./starter $
verdier@debian7-devel:~/starter$ ./starter $
verdier@debian7-devel:~/starter$ cd packaging/
verdier@debian7-devel:~/packaging$ ./autogen.sh
autoreconf: Entering directory `.'
autoreconf: configure.ac: not using Gettext
autoreconf: running: aclocal --force -I m4
autoreconf: configure.ac: tracing
autoreconf: configure.ac: creating directory config
autoreconf: running: libtoolize --copy --force
libtoolize: putting auxiliary files in AC_CONFIG_AUX_DIR, `config'.
libtoolize: copying file `config/ltmain.sh'
libtoolize: putting macros in AC_CONFIG_MACRO_DIR, `m4'.
libtoolize: copying file `m4/libtool.m4'
libtoolize: copying file `m4/ltoptions.m4'
libtoolize: copying file `m4/ltsugar.m4'
libtoolize: copying file `m4/ltversion.m4'
libtoolize: copying file `m4/ltobsolete.m4'
autoreconf: running: /usr/bin/autoconf --force
autoreconf: running: /usr/bin/autoheader --force
autoreconf: running: automake --add-missing --copy --force-missing
configure.ac:15: installing `config/config.guess'
configure.ac:15: installing `config/config.sub'
configure.ac:9: installing `config/install-sh'
configure.ac:9: installing `config/missing'
src/Makefile.am: installing `config/depcomp'
autoreconf: Leaving directory `.'
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$
verdier@debian7-devel:~/packaging$ cd build/
verdier@debian7-devel:~/build$ ../configure --prefix=$HOME/packaging
```

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```
debian7-devel
checking if g++ supports -c -o file.o... yes
checking if g++ supports -c -o file.o... (cached) yes
checking whether the g++ linker (/usr/bin/X11/ld -m elf_x86_64) supports shared libraries... yes
checking dynamic linker characteristics... (cached) GNU/Linux ld.so
checking how to hardcode library paths into programs... immediate
checking for gcc compiler release (at least version 3.4.0)... yes
checking for ANSI C header files... (cached) yes
checking for string.h... (cached) yes
checking sys/time.h usability... yes
checking sys/time.h presence... yes
checking for sys/time.h... yes
checking sys/timex.h usability... yes
checking sys/timex.h presence... yes
checking for sys/timex.h... yes
checking forunistd.h... (cached) yes
checking for pkg-config... /usr/bin/X11/pkg-config
checking pkg-config is at least version 0.9.0... yes
checking for TANGO... yes
configure: creating ./config.status
config.status: creating Makefile
config.status: creating src/Makefile
config.status: creating config.h
config.status: executing depfiles commands
config.status: executing libtool commands

package.....: starter
version.....: 6.0

Compiler.....: g++
Compiler flags...: -g -O2

TANGO.....: /segfs/tango/release/debian7
TANGO VERSION...: 8.1.2

verdier@debian7-devel ../build $
verdier@debian7-devel ../build $ make █
```


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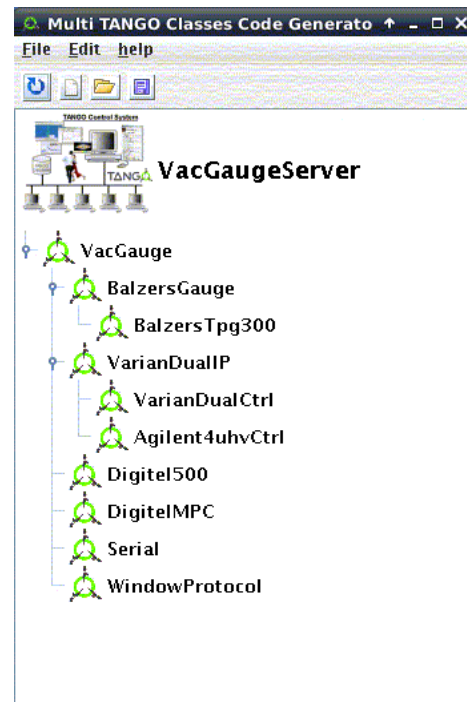
```
debian7-devel
ude -I/segfs/tango/ORB/omniORB4.1.7/debian7/include -g -O2 -MT ClassFactory.o -MD -MP -MF .deps/ClassFactory.
Tpo -c -o ClassFactory.o ../../src/ClassFactory.cpp
mv -f .deps/ClassFactory.Tpo .deps/ClassFactory.Po
g++ -DHAVE_CONFIG_H -I. -I../../src -I.. -std=c++0x -D_x86_64__ -D_linux__ -D_OSVERSION_=2 -I/segfs/tango/re
lease/debian7/include -I/segfs/tango/release/debian7/include/tango -I/segfs/tango/transport/zmq3.2.4/debian7/incl
ude -I/segfs/tango/ORB/omniORB4.1.7/debian7/include -g -O2 -MT main.o -MD -MP -MF .deps/main.Tpo -c -o main.o
../../src/main.cpp
mv -f .deps/main.Tpo .deps/main.Po
/bin/bash ../libtool --tag-CXX --mode=link g++ -g -O2 -L/segfs/tango/release/debian7/lib -L/segfs/tango/transp
ort/zmq3.2.4/debian7/lib -L/segfs/tango/ORB/omniORB4.1.7/debian7/lib -ltango -llog4tango -lzmq -lomniDynamic4 -lC
OS4 -lomniORB4 -lomnithread -o Starter Starter.o StarterClass.o StarterStateMachine.o CheckProcessUtil.o PingT
hread.o StarterUtil.o StartProcessThread.o ClassFactory.o main.o
libtool: link: g++ -g -O2 -o Starter Starter.o StarterClass.o StarterStateMachine.o CheckProcessUtil.o PingThread
.o StarterUtil.o StartProcessThread.o ClassFactory.o main.o -L/segfs/tango/release/debian7/lib -L/segfs/tango/tr
ansport/zmq3.2.4/debian7/lib -L/segfs/tango/ORB/omniORB4.1.7/debian7/lib -ltango -llog4tango -lzmq -lomniDynamic4
-lCOS4 -lomniORB4 -lomnithread
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/src'
make[2]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
make[1]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
verdier@debian7-devel ../build $
verdier@debian7-devel ../build $ make install
Making install in src
make[1]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/src'
make[2]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/src'
/bin/mkdir -p /users/verdier/packaging/bin
/bin/bash ../libtool --mode=install /usr/bin/X11/install -c Starter /users/verdier/packaging/bin'
libtool: install: /usr/bin/X11/install -c Starter /users/verdier/packaging/bin/Starter
make[2]: Nothing to be done for `install-data-am'.
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/src'
make[1]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
make[2]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
make[2]: Nothing to be done for `install-exec-am'.
make[2]: Nothing to be done for `install-data-am'.
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
make[1]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build'
```


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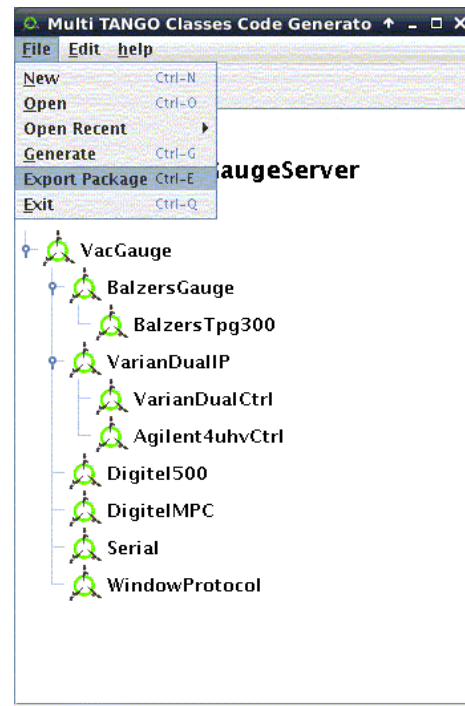


```
debian7-devel
rm -f *.o
rm -f *.lo
rm -f *.tab.c
test -z "" || rm -f
test . = ".././src" || test -z "" || rm -f
rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags
rm -rf ./deps
rm -f Makefile
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/starter-6.0/_build/src'
Making distclean in .
make[2]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/starter-6.0/_build'
rm -rf .libs _libs
rm -f *.lo
test -z "" || rm -f
test . = "." || test -z "" || rm -f
rm -f config.h stamp-h1
rm -f libtool config.lt
rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/starter-6.0/_build'
rm -f config.status config.cache config.log configure.lineno config.status.lineno
rm -f Makefile
make[1]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/starter/packaging/build/starter-6.0/_build'
if test -d "starter-6.0"; then find "starter-6.0" -type d ! -perm -200 -exec chmod u+w {} ';' && rm -rf "starter-6.0" || { sleep 5 && rm -rf "starter-6.0"; }; else ;; fi
=====
starter-6.0 archives ready for distribution:
starter-6.0.tar.gz
=====
verdier@debian7-devel ../build $
verdier@debian7-devel ../build $
verdier@debian7-devel ../build $ ls -l starter-6.0.tar.gz
-rw-rw-r-- 1 verdier soft 385074 May 13 11:13 starter-6.0.tar.gz
verdier@debian7-devel ../build $ █
```

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```
debian7-test
rm -f *.o
rm -f *.lo
rm -f *.tab.c
test -z "" || rm -f
test . = ".././src" || test -z "" || rm -f
rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags
rm -rf ./deps
rm -f Makefile
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/VacGaugeServer/packaging/build/vacgaugeserver-1.0/_build/src'
Making distclean in .
make[2]: Entering directory `/mntdirect/_segfs/tango/tmp/pascal/VacGaugeServer/packaging/build/vacgaugeserver-1.0/_build'
rm -rf .libs _libs
rm -f *.lo
test -z "" || rm -f
test . = "." || test -z "" || rm -f
rm -f config.h stamp-h1
rm -f libtool config.lt
rm -f TAGS ID GTAGS GRTAGS GSYMS GPATH tags
make[2]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/VacGaugeServer/packaging/build/vacgaugeserver-1.0/_build'
rm -f config.status config.cache config.log configure.lineno config.status.lineno
rm -f Makefile
make[1]: Leaving directory `/mntdirect/_segfs/tango/tmp/pascal/VacGaugeServer/packaging/build/vacgaugeserver-1.0/_build'
if test -d "vacgaugeserver-1.0"; then find "vacgaugeserver-1.0" -type d ! -perm -200 -exec chmod u+w {}
';' && rm -rf "vacgaugeserver-1.0" || { sleep 5 && rm -rf "vacgaugeserver-1.0"; }; else ;; fi
=====
vacgaugeserver-1.0 archives ready for distribution:
vacgaugeserver-1.0.tar.gz
=====
verdier@debian7-test ../build $
```

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```
debian7-devel
vacgugeserver-1.0/Makefile.am
vacgugeserver-1.0/Makefile.in
vacgugeserver-1.0/config.h.in
vacgugeserver-1.0/configure
vacgugeserver-1.0/AUTHORS
vacgugeserver-1.0/COPYING
vacgugeserver-1.0/ChangeLog
vacgugeserver-1.0/INSTALL
vacgugeserver-1.0/NEWS
vacgugeserver-1.0/autogen.sh
verdier@debian7-devel ~/vacuum $
verdier@debian7-devel ~/vacuum $
verdier@debian7-devel ~/vacuum $ ls vacgugeserver-1.0
aclocal.m4 autogen.sh* config/          configure* COPYING m4/          Makefile.in README
AUTHORS    ChangeLog    config.h.in configure.ac INSTALL Makefile.am NEWS      src/
verdier@debian7-devel ~/vacuum $
verdier@debian7-devel ~/vacuum $
verdier@debian7-devel ~/vacuum $ ls vacgugeserver-1.0/src
Agilent4uhvCtrlClass.cpp*  DigiteLMPC.cpp          VacGaugeClass.cpp
Agilent4uhvCtrlClass.h*   DigiteLMPC.h            VacGaugeClass.h
Agilent4uhvCtrl.cpp*      DigiteLMPCStateMachine.cpp  VacGauge.cpp
Agilent4uhvCtrl.h*        histo_buffer.cpp        VacGaugeDynAttrUtils.cpp
Agilent4uhvCtrlStateMachine.cpp* histo_buffer.h          VacGauge.h
AgilentRefreshThread.cpp* main.cpp                 VacGaugeStateMachine.cpp
AgilentRefreshThread.h*   Makefile.am             VarianDualCtrlClass.cpp*
BalzersGaugeClass.cpp*    Makefile.in             VarianDualCtrlClass.h*
BalzersGaugeClass.h*      MultiClassesFactory.cpp  VarianDualCtrl.cpp*
BalzersGauge.cpp*         PressureGaugeClass.cpp   VarianDualCtrl.h*
BalzersGauge.h*           PressureGaugeClass.h     VarianDualCtrlStateMachine.cpp*
BalzersGaugeStateMachine.cpp* PressureGauge.cpp        VarianDualIPClass.cpp
BalzersTpg300Class.cpp*   PressureGauge.h         VarianDualIPClass.h
BalzersTpg300Class.h*     PressureGaugeStateMachine.cpp  VarianDualIP.cpp
BalzersTpg300.cpp*        RefreshThread.cpp*      VarianDualIP.h
BalzersTpg300.h*          RefreshThread.h*        VarianDualIPStateMachine.cpp
BalzersTpg300StateMachine.cpp* SerialClass.cpp          VarianRefreshThread.cpp*
Digite1500Class.cpp        SerialClass.h            VarianRefreshThread.h*
Digite1500Class.h         Serial.cpp               WindowProtocolClass.cpp*
Digite1500.cpp            Serial.h                 WindowProtocolClass.h*
Digite1500.h              Serial.inux.cpp          WindowProtocol.cpp*
Digite1500StateMachine.cpp SerialStateMachine.cpp    WindowProtocol.h*
DigiteLMPCClass.cpp        SerialWin32.cpp          WindowProtocolStateMachine.cpp*
DigiteLMPCClass.h         TangoGauge.cpp
verdier@debian7-devel ~/vacuum $
```

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Thank you for your attention.