

BrainVISA dependencies cross compilation for Windows 7

Requirements

Cross compiling BrainVISA for Windows 7 (32 bits) is now possible under Ubuntu-14.04. Before cross compiling BrainVISA, it is necessary to install its dependencies for Windows 7. The only supported toolchain are i686-w64-mingw32 and x86_64-w64-mingw32.

During dependency build, source packages are downloaded from:

<ftp://ftp.cea.fr/pub/dsv/anatomist/3rdparty/1.0.0>

Steps to follow:

1) Check that the user you are currently using is sudoer (because cross compilation needs to install i686-w64-mingw32 and x86_64-w64-mingw32 toolchains)

"sudoer" must appear among the groups listed by the following command, otherwise you will need to contact an administrator of the machine.

```
id
```

2) Download install script and make it runnable:

```
wget --no-check-certificate --user brainvisa --ask-password -O /tmp/install_ubuntu_14.04_crossbuild.sh \
https://bioproj.extra.cea.fr/neurosvn/brainvisa/development/casa-distro/branches/bug_fix/share/scripts/install_ubuntu_14.04_crossbuild.sh
chmod +x /tmp/install_ubuntu_14.04_crossbuild.sh
```

2) To build 32 bits binaries, run the following command:

```
WINECMD=wine WINEARCH=win32 WINEDEBUG=-all WINEPREFIX=/i2bm/brainvisa/Windows-7-i686/wine \
CROSSBUILD_ARCH=win32 CROSSBUILD_ALL=1 CROSSBUILD_INSTALL_PREFIX=/i2bm/brainvisa/Windows-7-i686 /tmp/install_ubuntu_14.04_crossbuild.sh
```

3) To build 64 bits binaries, run the following command:

```
WINECMD=wine64 WINEARCH=win64 WINEDEBUG=-all WINEPREFIX=/i2bm/brainvisa/Windows-7-x86_64/wine \
CROSSBUILD_ARCH=x86_64 CROSSBUILD_ALL=1 CROSSBUILD_INSTALL_PREFIX=/i2bm/brainvisa/Windows-7-x86_64 /tmp/install_ubuntu_14.04_crossbuild.sh
```