06-编译安装RobWork

源码介绍:

RobWork is a collection of C++ libraries for simulation and control of robot systems. RobWork is used for research and education as well as for practical robot applications_o

RobWork是C++库的集合,用于仿真和控制机器人系统。

RobWork用于研究和教育以及实际的机器人应用。

官网源码地址: https://gitlab.com/sdurobotics/RobWork/ [https://gitlab.com/sdurobotics/RobWork/]

官网Ubuntu编译安装: https://robwork.dk/installation/ubuntu_compile/ [https://robwork.dk/installation/ubuntu_compile/]

编译步骤:

本教程针对Ubuntu 16.04, 其他版本请参见官网步骤

安装工具:

```
sudo apt-get install git mercurial
sudo apt-get install gcc g++ cmake
```

安装依赖:

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```
libboost-regex-dev \
libboost-serialization-dev \
libboost-system-dev \
libboost-test-dev \
libboost-thread-dev
```

可选依赖(可以不安装):

可选依赖编译工具

```
sudo apt-get install libxerces-c3.1 libxerces-c-dev
sudo apt-get install swig liblua5.3-dev python3-dev default-jdk
sudo apt-get install libgtest-dev
```

安装RobWorkStudio依赖(可以不安装):

```
sudo apt-get install qtbase5-dev
```

获取源码并编译:

获取源码:

```
git clone https://gitlab.com/sdurobotics/RobWork.git
```

准备编译目录:

```
cd RobWork
mkdir Build
mkdir Build/RW
mkdir Build/RWStudio
mkdir Build/RWSim
mkdir Build/RWHardware
```

执行cmake:

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```
cd Build/RW
cmake -DCMAKE_BUILD_TYPE=Release ../../RobWork
make -j4
```

编译RobWorkStudio:

For RobWorkStudio:

```
cd ~/RobWork/Build/RWStudio
cmake -DCMAKE_BUILD_TYPE=Release ../../RobWorkStudio
make -j4
```

配置环境,编辑~/.bashrc添加:

#ROBWORK#

```
export RW_ROOT=~/RobWork/RobWork/
export RWS_ROOT=~/RobWork/RobWorkStudio/
```

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