Ubuntu 安装和配置ACE开发环境

操作系统：Ubuntu14.04

# 一．安装编译工具

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| --- |
| sudo apt-get install -y gcc g++ git build-essential libtool automake autoconf wget curl |

# 二．安装ACE

## 1. 下载源码

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| --- |
| 官网 http://download.dre.vanderbilt.edu/  下载 http://download.dre.vanderbilt.edu/previous\_versions/ACE-6.4.7.tar.bz2  解压源码到home目录下，得到目录ACE\_wrappers  cd ~/  tar -xvf ACE-6.4.7.tar.bz2 |

## 2. 设置环境变量

|  |
| --- |
| vim ~/.bashrc  export ACE\_ROOT=/home/dzq/ACE\_wrappers  export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$ACE\_ROOT/ace  使~/.bashrc生效  source ~/.bashrc |

## 3. 创建config.h

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| --- |
| cd $ACE\_ROOT/ace/  vim config.h  写入下面内容：  #include "ace/config-linux.h" |

## 4. 创建platform\_macros.GNU

|  |
| --- |
| cd $ACE\_ROOT/include/makeinclude/  vim platform\_macros.GNU  写入下面内容：  include $(ACE\_ROOT)/include/makeinclude/platform\_linux.GNU  INSTALL\_PREFIX=/home/dzq/ACE-6.4.7/ |

## 5. 64位 linux 需要作个小修改：

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| --- |
| vim $ACE\_ROOT/include/makeinclude/platform\_linux.GNU  找到如下几行：  ifeq ($(buildbits),32)  FLAGS\_C\_CC += -m32  LDFLAGS += -m32  endif  ifeq ($(buildbits),64)  FLAGS\_C\_CC += -m64  LDFLAGS += -m64  endif  修改为：  ifeq ($(buildbits),32)  FLAGS\_C\_CC += -m32  LDFLAGS += -m32  endif  ifeq ($(buildbits),64)  FLAGS\_C\_CC += -m64  FLAGS\_C\_CC += -fPIC //此行是添加的  LDFLAGS += -m64  endif |

## 6. 编译安装

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| --- |
| cd $ACE\_ROOT/  make -j4  make install  安装目录在~/ACE-6.4.7, 剪切到/usr/local/  sudo mv ~/ACE-6.4.7 /usr/local/ACE-6.4.7 |

## 7. 设置环境变量

|  |
| --- |
| vim ~/.bashrc  #export ACE\_ROOT=/home/dzq/ACE\_wrappers //注释或删除这行  #export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$ACE\_ROOT/ace //注释或删除这行  export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:/usr/local/ACE-6.4.7/lib //添加这行  使~/.bashrc生效  source ~/.bashrc |

## 8. 测试

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| --- |
| 创建文件helloworld.cpp，代码如下：  #include "ace/Log\_Msg.h"  int ACE\_TMAIN(int argc, char\* argv[])  {  ACE\_DEBUG((LM\_DEBUG, ACE\_TEXT("Hello World!\n")));  return 0;  }  编译  g++ -I /usr/local/ACE-6.4.7/include -L /usr/local/ACE-6.4.7/lib helloworld.cpp -o helloworld -lACE  运行  ./helloworld  输入Hello World!验证成功 |