



Aibo Tutorial: Part1 – Getting Started

Steps to getting started



- Gather necessary elements
- Download Sony Software
- Set up you environment
- Checkout robocup software
- Compile and try out on robot

Gathering necessary stuff



- Operating System
 - Linux
 - gcc 3.3(+)
 - Mac
 - gcc 3.3(+)
 - Windows
 - Cygwin

Gathering necessary stuff



- Hardware
 - Laptops are easier
 - Memory Stick Reader
 - Built-in, PCMCIA
 - Robot

Downloading Sony Software



- <http://www.openr.org>
 - Sign up for an account
 - Go to downloads page
 - OPENR-SDK
 - Docs
 - Sample Programs
 - Cross Development Tools (Windows only)
 - Cygwin Binaries (Windows only)
 - Dev Environment sources (gcc, binutils, newlib)
 - Shell Script to build it all

Building Your Environment



- Unpack Documentation
 - InstallationGuide_E.pdf
 - Follow instructions closely
 - Ignore anything about 210 model or Remote Processing
 - Will take a while to compile everything

Checking out Robocup Code



- In bash:
 - export CVS_RSH=ssh
 - export
CVSROOT=your_account@thunderbird15.cc.gatech.edu:/net/hzr1/users/borg/Software/legged/CVS
 - cvs co Sideways
 - cd Sideways/src
 - emacs Makefile.sdk (point OPENRSDK_ROOT at your OPENR SDK)

Checking out Robocup Code



- In csh:
 - setenv CVS_RSH ssh
 - setenv CVSROOT
your_account@thunderbird15.cc.gatech.edu:/net/
h zr1/users/borg/Software/legged/ CVS
 - cvs co Sideways
 - cd Sideways/src
 - emacs Makefile.sdk (point OPENRSDK_ROOT
at your OPENR SDK)
 - make

Getting Software on Robot



- insert stick
- make
- make d1 (d2/d3/d4)
- remove stick
- put stick in robot
- turn on robot
- (You may need to edit mount points in Makefile)