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Installation instructions for BEAST and BEAGLE on Avell G1550 RTX MUV/A65 RTX MUV V.1

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Works for me

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Installing dependency packages

Open a terminal (Ctrl + Alt + T). Update the package list and install the dependency packages for the BEAST and BEAGLE.



sudo apt-get update

sudo apt-get install -y autoconf automake build-essential g++-8 gcc-8 git libcanberra-gtk-module libcanberra-gtk3-module libfreetype6-dev libgl1-mesa-dev libglew-dev libglm-dev libsdl2-dev libsdl2-image-dev libtool mesa-utils ocl-icdopencl-dev ocl-icd-libopencl1 openjdk-8-jdk openjdk-8-jre pkg-config sudo apt-get update

Installing Intel OpenCL implementations

Create a directory called softwares to your HOME directory, switch to it and then download the Intel OpenCL implementations installer.

Unpack the compressed .tar.gz file, switch to installer directory and install the Intel OpenCL implementations, accepting

After installation, remove the Intel OpenCL implementations installer directory and installer.



mkdir \$HOME/softwares

cd \$HOME/softwares

wget http://registrationcenter-

download.intel.com/akdlm/irc_nas/vcp/16284/intel_sdk_for_opencl_applications_202

tar -zxvf intel sdk for opencl applications 2020.0.270.tar.gz

cd intel_sdk_for_opencl_applications_2020.0.270

bash install.sh

rm -rf intel_sdk_for_opencl_applications_2020.0.270*

Installing NVIDIA CUDA drivers

Get the PPA repository and install the NVIDIA CUDA driver.

mprotocols.io

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wget

https://developer.download.nvidia.com/compute/cuda/repos/ubuntu1804/x86_64/ci ubuntu1804.pin

sudo mv cuda-ubuntu1804.pin /etc/apt/preferences.d/cuda-repository-pin-600

http://developer.download.nvidia.com/compute/cuda/10.2/Prod/local_installers/cuda/10.2/Prod/lo repo-ubuntu1804-10-2-local-10.2.89-440.33.01 1.0-1 amd64.deb sudo dpkg -i cuda-repo-ubuntu1804-10-2-local-10.2.89-440.33.01_1.0-1_amd64.de sudo apt-key add /var/cuda-repo-10-2-local-10.2.89-440.33.01/7fa2af80.pub sudo apt-get update sudo apt-get -y install cuda

Installing BEAGLE

Build the BEAGLE from the source repository.



git clone --depth=1 https://github.com/beagle-dev/beagle-lib.git cd beagle-lib

./autogen.sh

./configure --prefix=\$HOME/softwares/beagle --with-

opencl=/opt/intel/system_studio_2020/opencl/SDK --with-cuda=/usr/local/cuda

make install

make check

cd ...

Installing BEAST

Download the BEAST installer and unpack the compressed .tgz file. After install, remove the compressed .tgz file.



cd \$HOME/softwares

wget https://github.com/beast-dev/beastmcmc/releases/download/v1.10.5pre1/BEASTv1.10.5pre.tgz tar -zxvf BEASTv1.10.5pre.tgz rm BEASTv1.10.5pre.tgz