**RAW to ACES Utility for Centos 7(Redhat Linux)**

**Prerequisites**

We'll need the following tools beforehand to start the installation process:

sudo dhclient

yum install git

yum install wget

**CMake**

yum install cmake

**IlmBase**

yum install ilmbase-devel

**C++ Compiler**

yum install gcc-c++

**ACES Container**

From the root source directory

git clone https://github.com/miaoqi/aces\_container.git

cd aces\_container

git checkout feature/windowsBuildSupport

mkdir build && cd build

cmake ..

make

sudo make install

**Boost**

yum install boost-devel

**Ceres Solver**

***Install gflags***

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/g/gflags-2.1.1-6.el7.x86\_64.rpm

rpm -Uvh gflags-2.1.1-6.el7.x86\_64.rpm

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/g/gflags-devel-2.1.1-6.el7.x86\_64.rpm

rpm -Uvh gflags-devel-2.1.1-6.el7.x86\_64.rpm

***Install google-glog***

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/g/glog-0.3.3-8.el7.x86\_64.rpm

rpm -Uvh glog-0.3.3-8.el7.x86\_64.rpm

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/g/glog-devel-0.3.3-8.el7.x86\_64.rpm

rpm -Uvh glog-devel-0.3.3-8.el7.x86\_64.rpm

***Install BLAS***

sudo yum install atlas-devel

***Install Eigen3*** (eigen3-devel - A lightweight C++ template library for vector and matrix math)

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/e/eigen3-devel-3.2.5-2.el7.noarch.rpm

rpm -Uvh eigen3-devel-3.2.5-2.el7.noarch.rpm

***Install Suitesparse*** (suitesparse - A collection of sparse matrix libraries)

yum install suitesparse

yum install suitesparse-devel

***Install Ceres*** (ceres-solver-devel - A non-linear least squares minimizer)

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/c/ceres-solver-1.11.0-1.el7.x86\_64.rpm

rpm -Uvh ceres-solver-1.11.0-1.el7.x86\_64.rpm

wget http://dl.fedoraproject.org/pub/epel/7/x86\_64/Packages/c/ceres-solver-devel-1.11.0-1.el7.x86\_64.rpm

rpm -Uvh ceres-solver-devel-1.11.0-1.el7.x86\_64.rpm

**Install LibRaw**

yum install jasper-libs

yum install lcms2

yum install lcms2-devel

wget https://www.libraw.org/data/LibRaw-0.19.0.tar.gz

tar zxvf LibRaw-0.19.0.tar.gz

./configure

make

sudo make install

*Do the following next..*

cd

cd ../usr/local/lib

cp \*.so /usr/lib64

**Install rawtoaces**

From the root source directory

git clone https://github.com/ampas/rawtoaces

cd rawtoaces

mkdir build && cd build

cmake ..

make

sudo make install

*Do the following next ..*

cd build/src

make install

cd build/unittest

make install

cd build/lib

make install

cd

cd ../usr/local/lib

cp \*.so /usr/lib64

cp \*.so /usr/local/lib64

(If asked to replace files, say Yes)

Try running rawtoaces by doing the below:

**rawtoaces --help**

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