Ati Driver | Stream sdk (Opencl) | CAL++ | cpyrit_calpp |

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Waiting Ati-driver fix, I describe the way to install Ati driver, Ati Stream sdk 2.3 support opencl 1.1, CAL++ and module for pyrit on Backtrack 4, R1, R2.

Requirement

Ati Driver

ATI Stream SDK built for 32-bit Linux®

CAL++

Download all in home folder and open terminal in that location.

Commands

-Install Ati Driver

Code:

```
chmod +x ati-driver-installer-11-?-x86.x86_64.run
./ati-driver-installer-11-?-x86.x86_64.run
```

Don't change anything and click "continue""agree""continue"

Verify if the driver is rightly installed

Code:

```
aticonfig --initial=check
```

If not found

Code:

```
aticonfig --initial
```

Reboot

Installation complete

-Installation Ati Stream SDK

Before continuing check if your video card supports Stream and Opencl

System Requirements

Code:

```
tar -xvzf ati-stream-sdk-v2.3-lnx32.tgz
cp -r ati-stream-sdk-v2.3-lnx32 /
nano ~/.bashrc
```

Scroll down to the bottom of file and change

Code:

```
export LD_LIBRARY_PATH=opt/oracle/instantclient_10_2
```

in

Code:

```
export LD_LIBRARY_PATH
```

and add

Code:

```
ATISTREAMSDKROOT=/ati-stream-sdk-v2.3-lnx32
ATISTREAMSDKSAMPLESROOT=/ati-stream-sdk-v2.3-lnx32/samples
LD_LIBRARY_PATH=opt/oracle/instantclient_10_2:$ATISTREAMSDKROOT/lib/x86
export ATISTREAMSDKROOT
export ATISTREAMSDKSAMPLESROOT
```

Save and close nano.
Then
Code:

```
cd /
tar xvfz /ati-stream-sdk-v2.3-lnx32/icd-registration.tgz
```

Reboot or logout and login.
Installation complete

-CAL++
Code:

```
cd
apt-get install libboost-dev cmake
tar xvfz calpp-*.tar.gz
cd calpp-*
cmake .
make
make install
```

Installation complete

-CAL++ version of Pyrit
Code:

```
apt-get purge pyrit
svn checkout http://pyrit.googlecode.com/svn/trunk/ pyrit_svn
cd pyrit_svn/pyrit
./setup.py build
./setup.py install --record ~/pyrit.txt
cd ../cpyrit_calpp
./setup.py build
./setup.py install --record ~/pyritcalpp.txt
```

if you have some errors can remove the installed files with
Code:

```
cat ~/pyrit.txt | xargs rm -rf
cat ~/pyritcalpp.txt | xargs rm -rf
```

The procedure is identical to compile Opencl version of pyrit, but CAL++ is faster than Opencl version, especially with the series hd5000.
Check the video card is used by pyrit
Code:

root@bt:~#pyrit list_cores
Pyrit 0.3.1-dev (svn r277) (C) 2008-2010 Lukas Lueg http://pyrit.googlecode.com
This code is distributed under the GNU General Public License v3+

The following cores seem available...
#1: 'CAL++ Device #1 'ATI RV770''
#2: 'CPU-Core (SSE2)'

A quick test to make sure everything is ok
Code:

root@bt:~#pyrit selftest
Pyrit 0.3.1-dev (svn r277) (C) 2008-2010 Lukas Lueg http://pyrit.googlecode.com
This code is distributed under the GNU General Public License v3+

Cores incorporated in the test:
#1: 'CAL++ Device #1 'ATI RV770''
#2: 'CPU-Core (SSE2)'
#3: 'Network-Clients'

Running selftest...

All results verified. Your installation seems OK.

Installation complete

-GPU performance is reduced on system with Hyper Threading

NVidia/ATI GPU driver requires at least one real core per GPU for efficient work. With HT enabled, the driver needs to fight for CPU cycles with CPU computing core. This leads to GPU starvation and decreased performance. The problem can be solved by reducing number of running CPU-cores: Open '.pyrit/config' and set 'limit_ncpus' to the number of physical CPU-cores.

-Piryt benchmark(hd4870)
--CAL++
Code:

root@Free:~# pyrit benchmark
Pyrit 0.4.0-dev (svn r288) (C) 2008-2010 Lukas Lueg http://pyrit.googlecode.com
This code is distributed under the GNU General Public License v3+

Running benchmark (24097.4 PMKs/s)... /

Computed 24097.38 PMKs/s total.
#1: 'CAL++ Device #1 'ATI RV770'': 24832.1 PMKs/s (RTT 2.8)
#2: 'CPU-Core (SSE2)': 785.3 PMKs/s (RTT 3.0)
#3: 'Network-Clients': 0.0 PMKs/s (RTT 0.0)

--OPENCL
Code:

root@Free:~# pyrit benchmark
Pyrit 0.4.0-dev (svn r288) (C) 2008-2010 Lukas Lueg http://pyrit.googlecode.com
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Running benchmark (19473.1 PMKs/s)... \

Computed 19473.06 PMKs/s total.
#1: 'OpenCL-Device 'ATI RV770'': 19847.4 PMKs/s (RTT 2.8)
#2: 'CPU-Core (SSE2)': 790.4 PMKs/s (RTT 3.0)
#3: 'Network-Clients': 0.0 PMKs/s (RTT 0.0)

-Oclhashcat

Code:

root@bt:/pentest/passwords/oclhashcat# ./oclHashcat32.bin -o ~/found --output-format=2 -n 80 --gpu-loops=1024 -m 1000 ~/samdump ?l?l?l?l ?l?l?l?l
oclHashcat v0.23 starting...

Digests: 1 entries, 1 unique
Bitmaps: 8 bits, 256 entries, 0x000000ff mask, 1024 bytes
Platforms: 1
Platform #1: Advanced Micro Devices, Inc., OpenCL 1.1 ATI-Stream-v2.2 (302) (1 matched)
Device #1: ATI RV770, 256MB, 0Mhz, 10MCU
Device #1: Kernel kernels/4098/m1000.32.ATI RV770.kernel (238440 bytes)
[s]tatus [p]ause [r]esume [h]elp [q]uit => s
Threads...: 1
Mode.Left.: Mask '?l?l?l?l' (456976)
Mode.Right: Mask '?l?l?l?l' (456976)
Speed.GPU1: 1426.9M/s (running)
Speed.GPU*: 1426.9M/s
Recovered.: 0/1 Digests, 0/1 Salts
Progress..: 5190451200/208827064576 (2.49%)
Running...: 3 secs
Estimated.: 2 mins, 22 secs

HTH

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