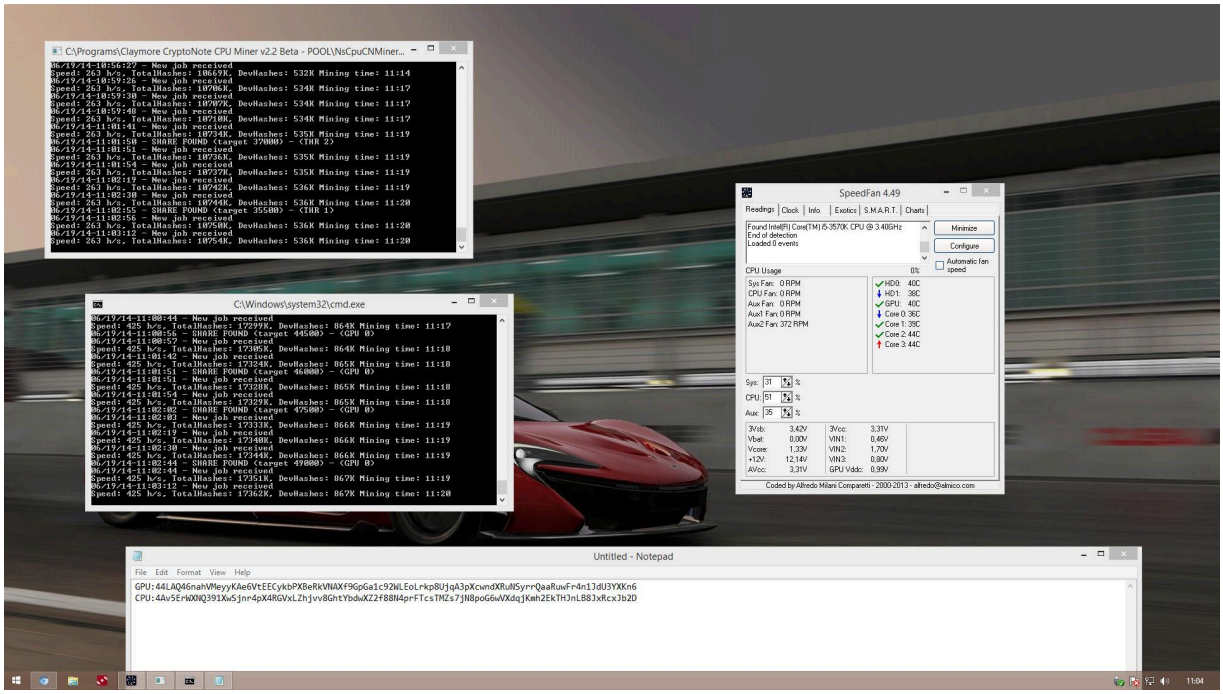
So I did some testing with Claymores CPU and GPU miners, both V2.2. Point of the test was to define the effective hashrate they give. All data used in the following comes from screenshots, from pool data or monerochain.info graphs **EXCEPT** for the average hashrate for the pool over the test period, that is a guess at best, but if we assume our pool admin doesn't steal, everything works out at that number (to certain accuracy)!

Test Setup

For mining equipment I had 3570k@4.8Ghz and 7950@1200Mhz/1700Mhz, both watercooled. Additional system specs include Asrock Z77 Pro4 motherboard, 8 GB of DDR3 2000 13-13-13-36 memory and SF Golden Green 500W PSU.

For pool I used Kippo.eu as it's has prooven stabile and it's relatively healthy sized part of the network, few percent of total speed at the moment, not to mention that the admin is really dedicated.

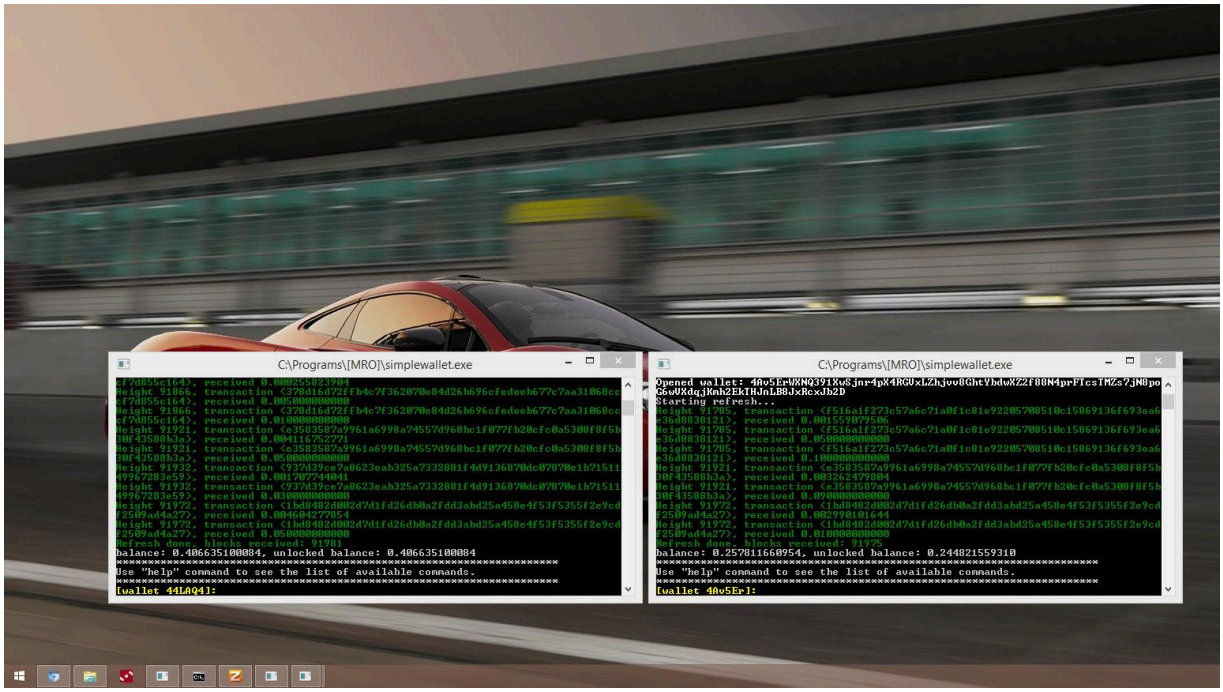
Test length was 11 hours and 22 minutes, certainly not long enough to be definitive, but should give some indication of how things work. Test was run with fresh windows boot with "every" cpu consuming process closed, including explorer, afterburner, etc.



[Full Resolution] Image taken before closing explorer.

Results

So the miners ran their time, stopped them and waited for the final balance.
And here they are, CPU yielded 0.257811660954 XMR and GPU 0,406635100084 XMR



[Full Resolution]
Calculations

So are the values even in the ballpark?
Let's see.
CPU Did total of 10.754M hashes for me that is 263,19 hashes per second, just as the miner reported. Pool has received 11.289M hashes from me so CPU has been lucky! That is 5% more hashes than there would be on average. So at least the hashes made it in. What came out?
Income calculation for Cryptonote-based coins goes like this

> ((H*R)/D)*(1-F)*3600*T=Income/Time Frame
> Where
> H=Hash Rate
> R=Block Reward
> D=Difficulty
> F=Fee (in decimals eg. 2% fee on 0,02)
> T=Timeframe in hours

So: Cpu should have yielded 0,372 Moneros **on average** but it only got 0,258
Pool got 19 blocks at that 11.22hours time window totalling to about 305 coins. If we assume that the pool hashed at average of 310 KH/S for the night it means pool should've gotten 27 block at that time, quite bit on the bad side of luck, part of that goes to small downtime that affected everyone for a small time. My cpu was 263/310000 th of the pool so I should've gotten 19*16,07/(310000/263)=0,25875XMR and now we are at the right ballpark, rest of the difference comes from variable pool hashrate, difficulty and reward.

How about the GPU then. Total 17,362M Hashes, only 15,835M at the pool so GPU has been unlucky solving it's shares then, 12% less hashes at pool, and something else I noticed, GPU has a lot more **Outdated shares** that CPU, GPU miner has maybe one in every CMD page and I haven't seen one on CPU in two hours I've been lurking. How much that takes of hashing power, I do not know. GPU should've yielded 0,6 XMR on average based on miner speed and 0,548 based on pool speed, but I only got 0,4 taking my part of the pool rewads 19*16,07/(310000/420)=0,413 and we are in the ballpark again!

Conclusion

If you have a stable connection and machines and pool works well, everything should roll as expected.