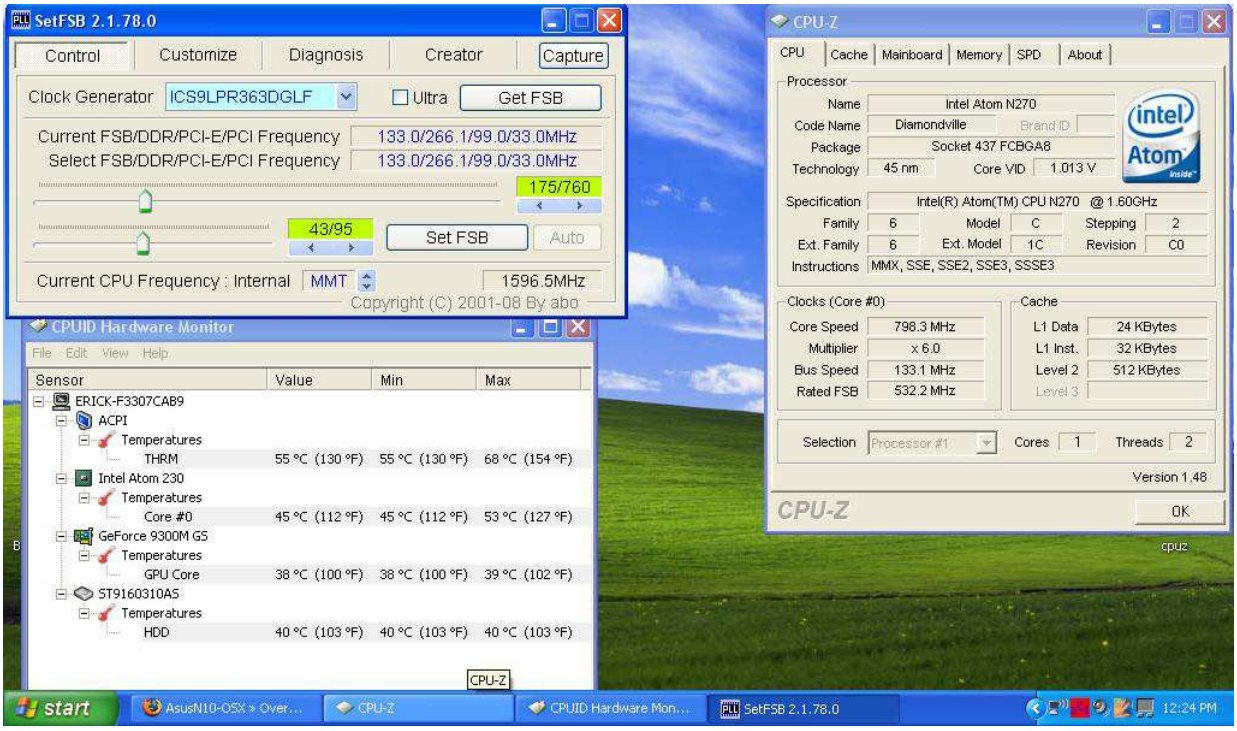
How to overclock your N10

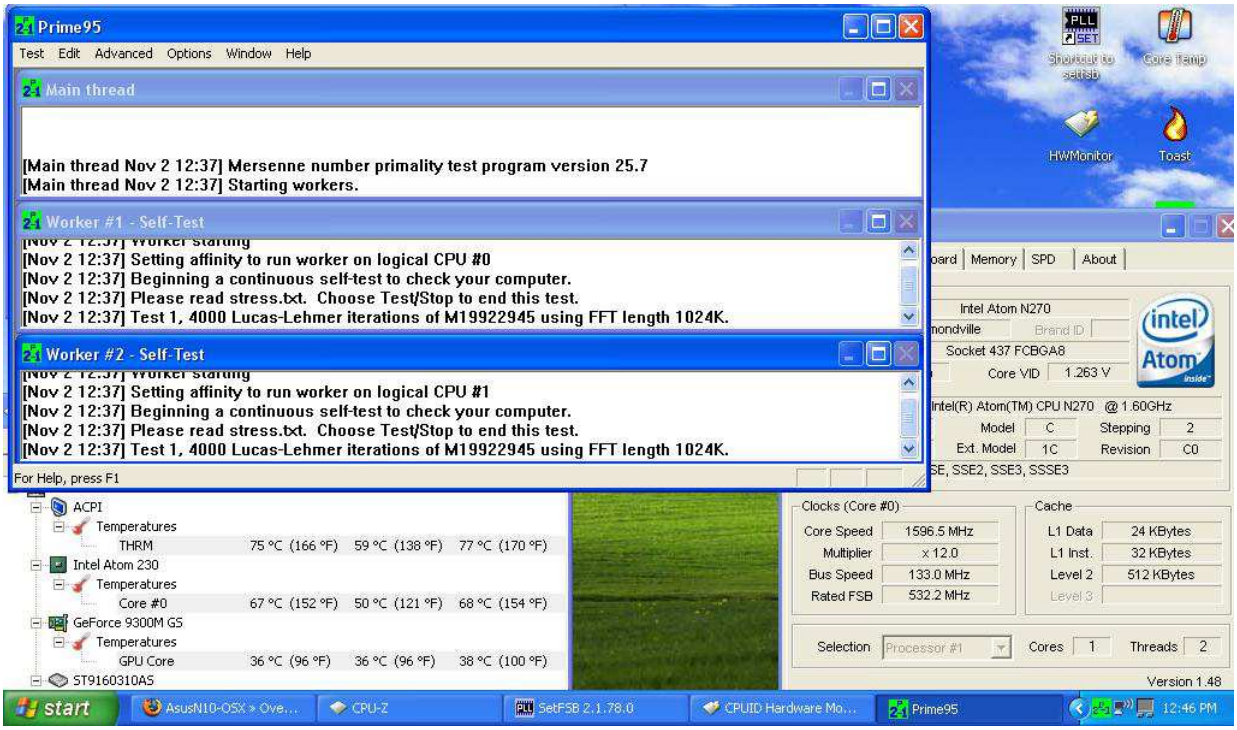
So you want to overclock your system because the CPU is severely bottle necking your GPU huh? Well i am going to show you how to do it safely to 2.0 GHz with the stock 533 ram.

Requirements:
- SetFSB (working with the creator of SetFSB to add compatibility to the N10) until then use clock gen ICS0LPR310BGLF.
- CPU-Z (to confirm your clock speeds)
- HWMonitor (to check your core temps)
- some Cohones!!! because if you mess your computer up it's not my fault!

1st you want to start up all 3 programs.... and take a look at your stock settings:

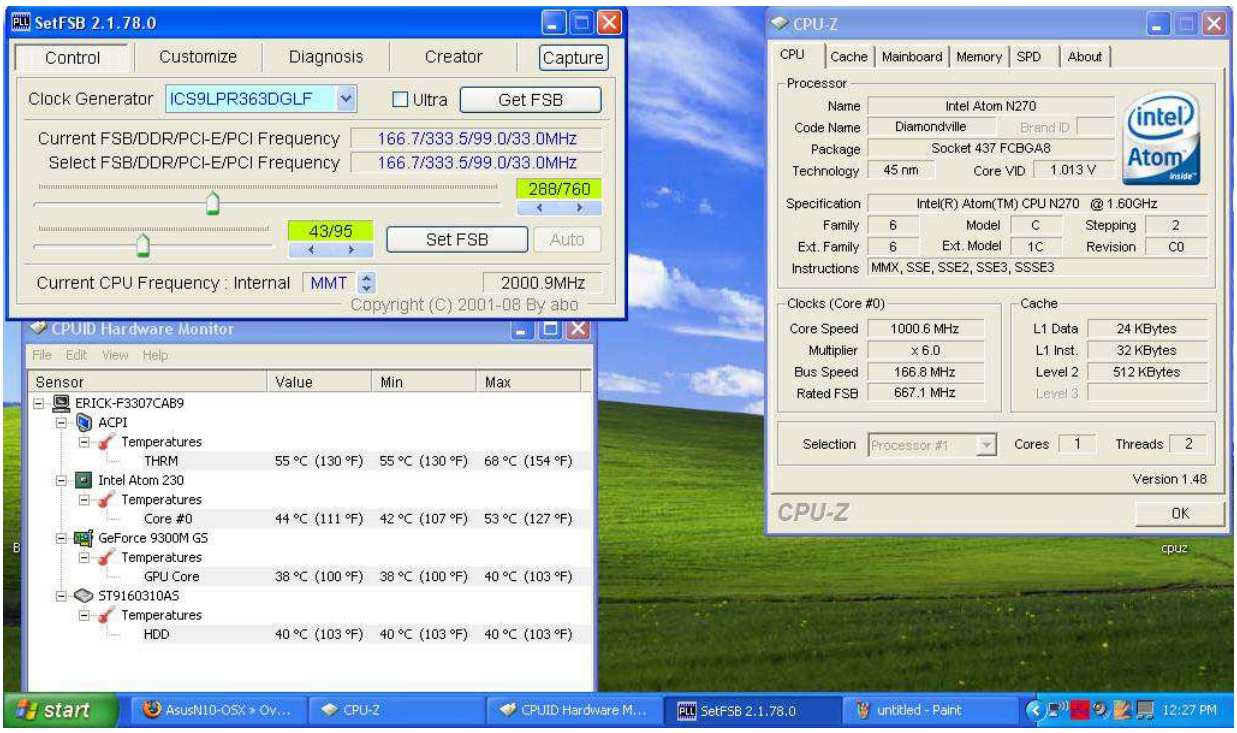


write down your idle temps somewhere so you can see how much they fluctuate once you overclock.
Here you can see the temps at 100% load with the stock settings....



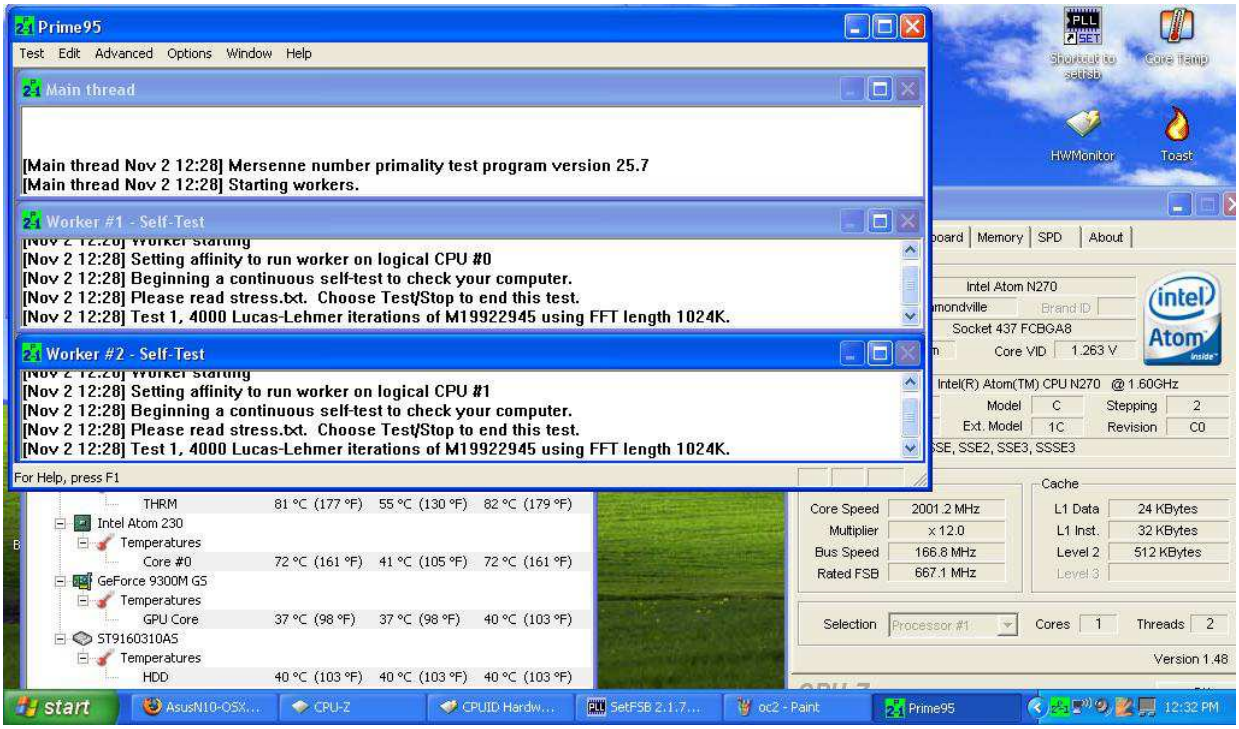
Now we can start adjusting the FSB 10-15 MHz increments until we hit 1.9ghz, or the speed you desire. If you start noticing artifacts, frozen scree, BSOD, or instant reboot then you have hit your limit! For me so far it has only been my RAM. My stock ram is 533 MHz and i was able to overclock it to 667 MHz

Overclocked to 2 GHz: Idle temps



Since the temps don't really change when the system is idle we are now going to use Prime95 to stress the CPU and see if we have a stable overclock!

Here are the final results after stress testing the system @ 100% load for 10+hrs!



Here is the end result, as you can see temps raise about 5degrees not a whole lot and after 10+hrs with no errors I feel pretty safe with this clock. I tried going further but i was stopped at about 172 MHz for bus speed. This is because of the Ram that is being clocked from 533 to 667 over 130MHz and pushing the ram further from that is just causing it to hang. If you have say a good stick of 667 with some 5 5 5 5 12 timing you might be able to push even further but at that point it would all just be pending the temps. According to the Intel website and the PDF file I downloaded for the Atom 1.6 N270. It states that the junction switch is at 125c, this means that once your CPU hits that temp the system will automatically shut it down. I would say that getting closer to these temps is just taking away life from your CPU as to how long the system will perform overclocked I don't know, but i do know that an overclocked system will not run for as long as one that is not overclocked.

Good luck overclocking your system and feel free to contact me @ http://www.n10user.com my user name is Rich.