جامعة اليمامة
Al Yamamah University

CIS 304

Assignment 1

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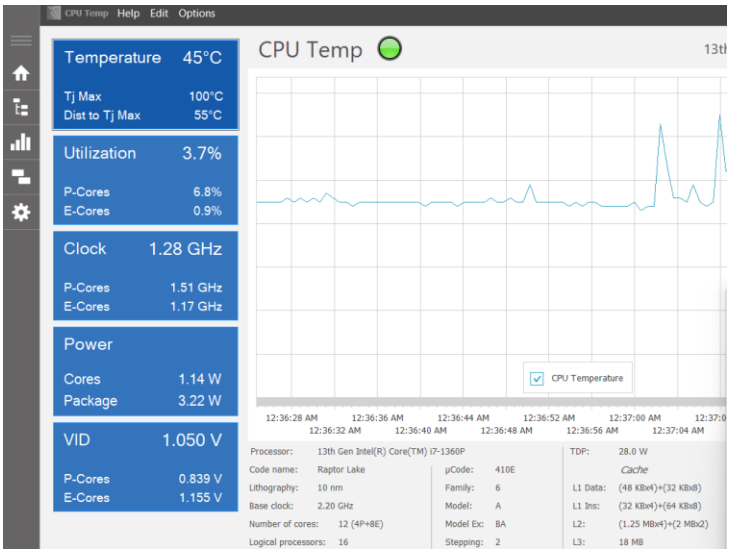
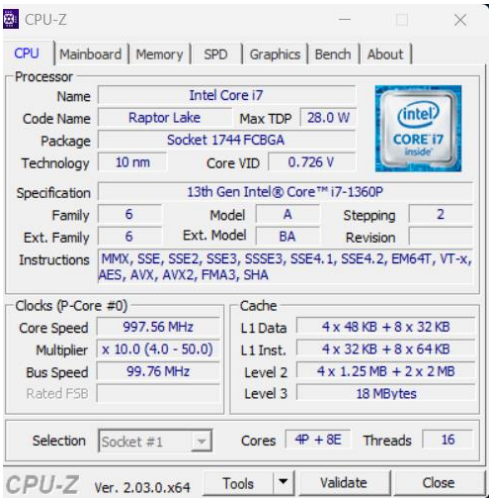
Analyze CPU:

Using the CPU-Z and CPU Temp to see the CPU speed and temperature for Huawei D14 Intel Core i7 13th generation.

Case1: Computer is in normal mode:

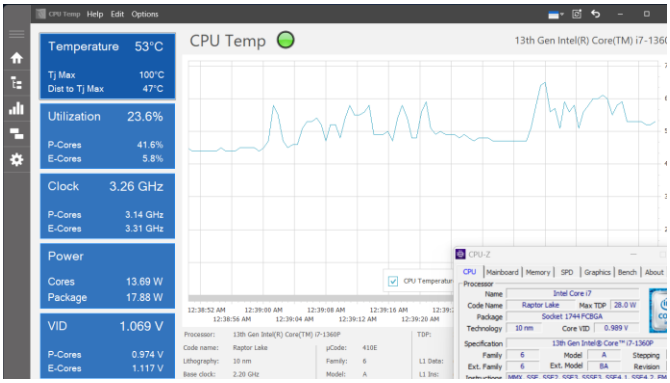


- the temperature is 45C because there is no application is open in the same time.
- The Clock is 1.28GHZ and the VID is 1.050V.

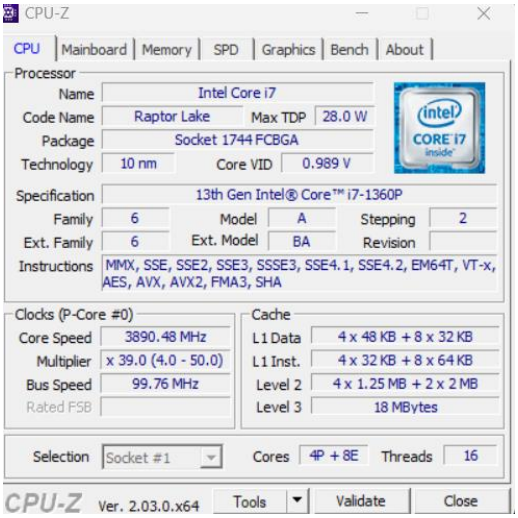


- In the same time the Core speed is 997.56MHZ.

Case 2: Open Eclipse and Net Beans Application:

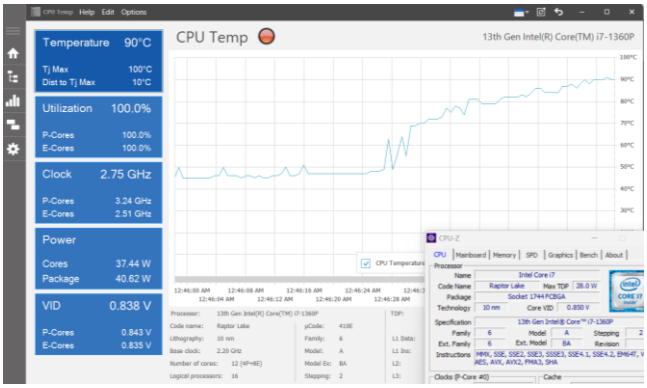


- The temperature is start increasing because the tow application is start working at the same time.
- The Clock goes from 1.28GHZ to 3.26GHZ and that's show the tow application they made the processor work more powerfully.
- The VID goes from 1.050V to 1.069V.

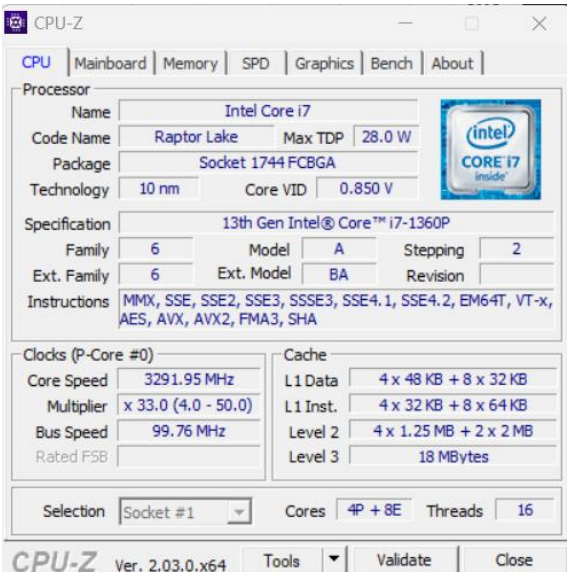


- At the same time the Core Speed is increasing from 997.56MHZ to 3890.48MHZ.

Case 3: Start the benchmark:



- When the Benchmark start the CPU temperature has increased significantly, because the all parts work very well to measure performance.
- The Clock is 2.75GHZ and the VID is 0.838V and it's less than when I tried to open more than one application in the same time.

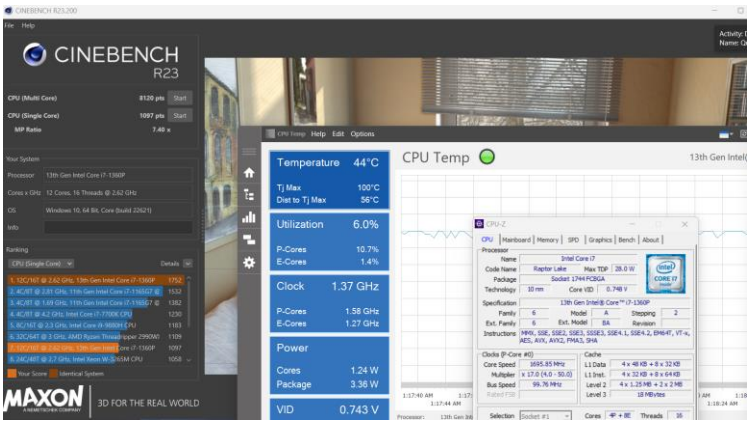


- At the same time the Core Speed is decrease from 3890.48MHZ to 3291.95MHZ.

Benchmarking:

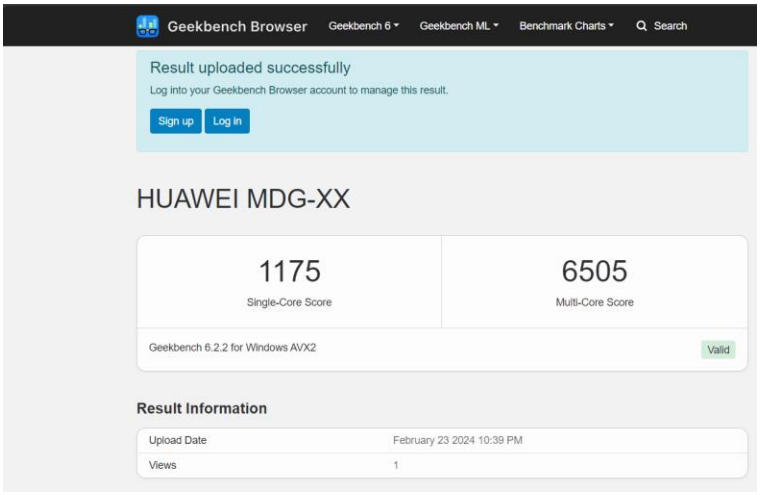
Using the CINEBENCH and GEEKBENCH6 to see the benchmarking for Huawei D14 Intel Core i7 13th generation.

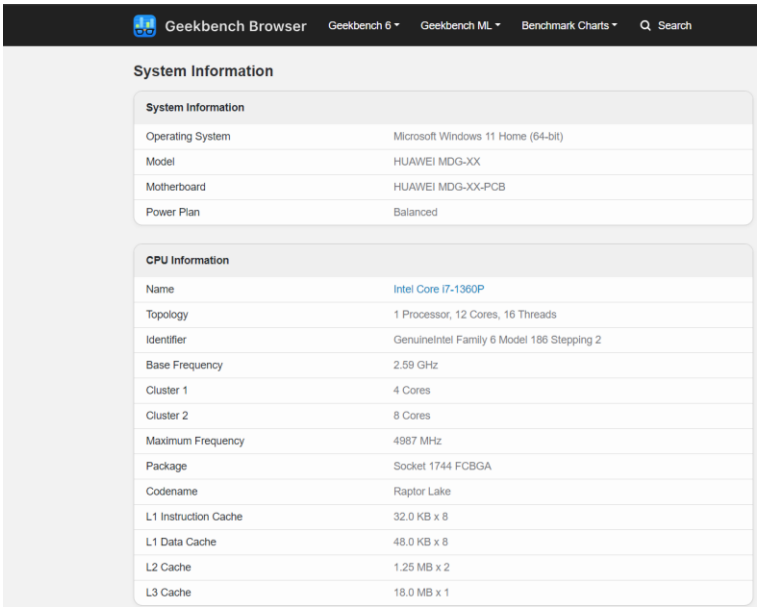
Case 1: Using CINEBENCH application:



- The CPU Muli core is 8120pts.
- The CPU Single is 1097pts.
- The MP Ratio is 7.40X.
- After finishing the benchmarking the temperature decrease to the natural temperature 44C and the Clock and VID decrease to 1.37GHZ and 0.743V.
- CPU speed decrease to 1695.85MHZ from 3291.95MHZ.

Case 2: Using GEEKBENCH6 application:





- The Multi core has 6505pts.
- The Single core has 1175pts.

Conclusion:

In the end of this assignment I understand when I open strong app the CPU speed will increase and the temperature will increase, also the core speed. When I start the Benchmarking the CPU will operate at high power and the temperature will go near to 100C because of the high power, also the laptop sound will increase, but the Clock and the VID and CPU speed it will not be same as when the computer opened more than one application in the same time.