

LAB BOOK

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Lab 5 - Chipset

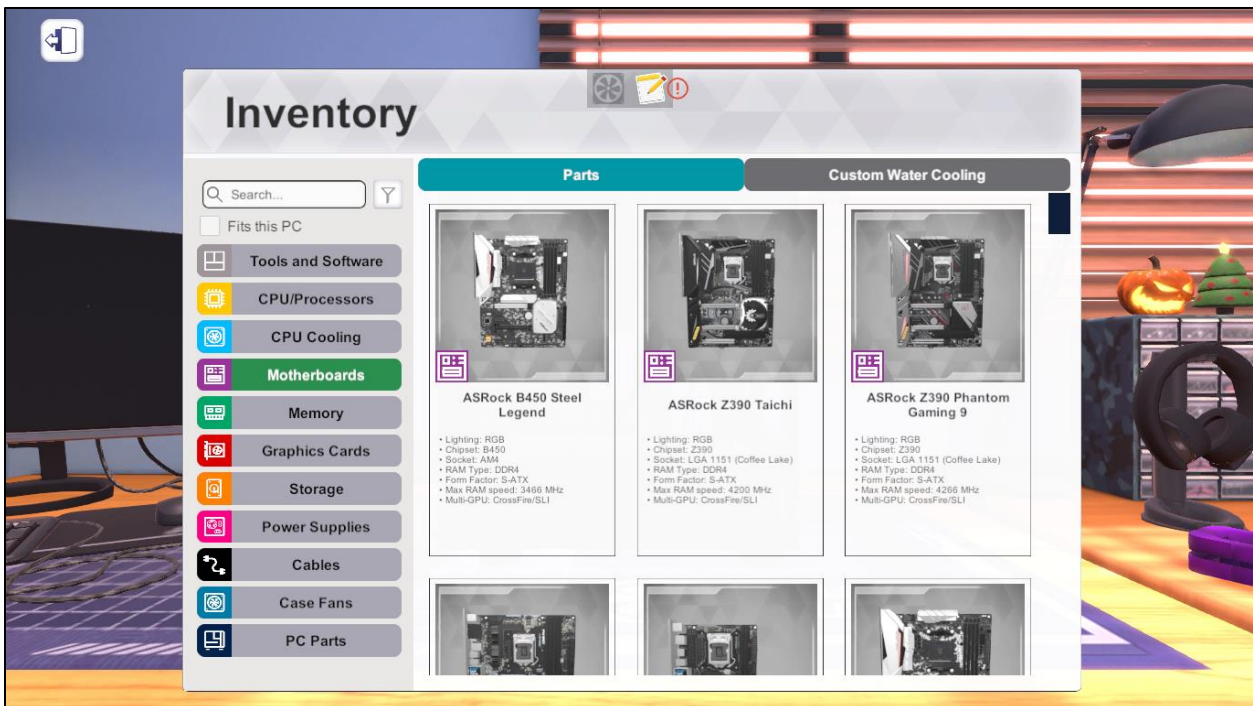
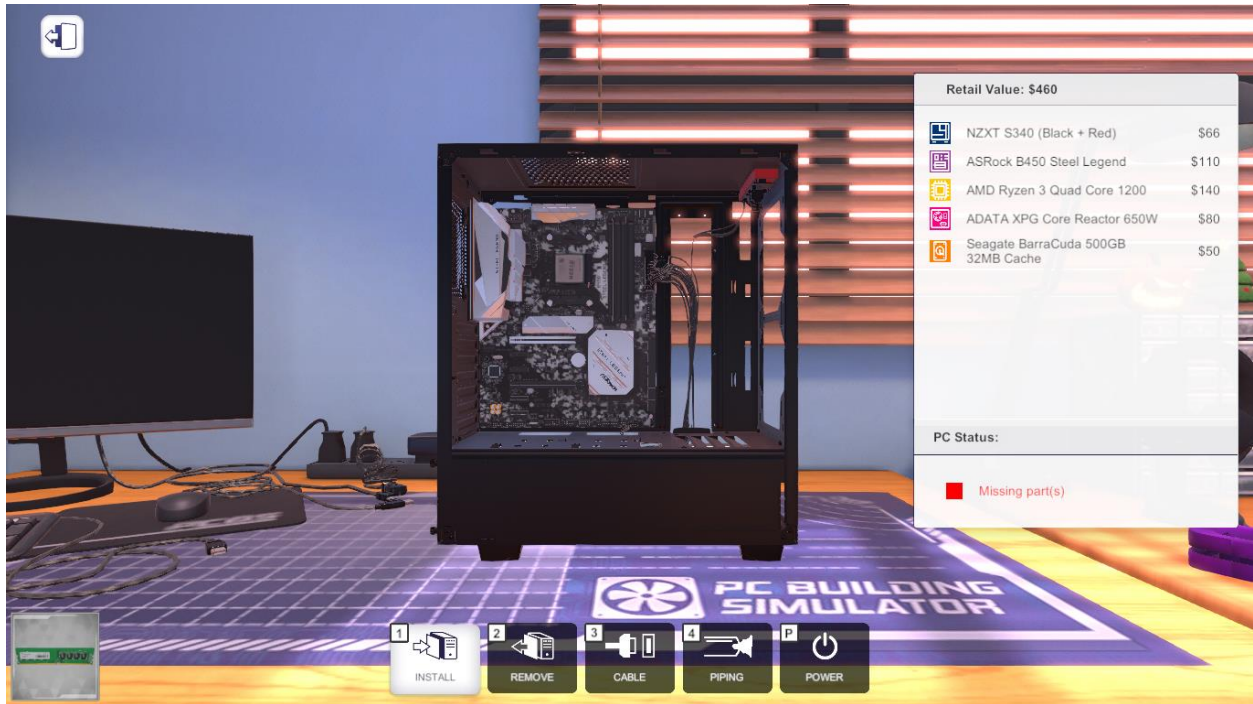
Part 1

Description

In this lab, I'll go over the specifics of the chipset and what it accomplishes on the motherboard (ASRock B450 Steel Legend), as well as the release date, the maximum utilization of USB ports, the number of USB port versions available, and PCI e- lanes.

Observations

- c) The AMD B450 chipset is located on the PC's motherboard.
- d) The AMD B450 Chipset is a high-performance chipset geared at power users who wish to over clock their CPUs but don't need full PCI -e bandwidth. Even though AMD's B450 motherboard platform is not the most recent, it is a very good value for money chipset.
- e) i) Release Date :
 - March, 2018
- ii) Maximum USB ports :
 - There are eight USB ports on the back panel.
- iii) Version of USB ports available :
 - Two USB 3.1 Gen2 ports, one Type-A and one Type-C, are available on the B450 Tomahawk.
- iv) PCI –e lanes :
 - Six PCI -e 2.0 lanes are provided by the B450 chipset.

Screenshots

Reflection

- A motherboard's chipset used to be a group of chips. The chipset acted as a link between the CPU and the rest of the system. The compatibility of additional components was governed by the chipset on a motherboard.
- In a modern motherboard, the chipset is the most important determining factor for compatibility. When choosing a chipset, the most crucial elements to consider are CPU, RAM, and PCI Express lane support.
- Different chipsets will support various components, such as different CPUs. Because components can differ in power, a high-end, full-featured chipset for a mid-range CPU won't definitely outperform a lower-end chipset for a more powerful CPU in terms of performance.

References

<https://www.anandtech.com/show/13371/the-msi-b450-tomahawk-motherboard-review/2#:~:text=As%20previously%20mentioned%2C%20the%20rear,Realtek%20RTL8111H%20Gigabit%20networking%20controller>.

<https://forums.tomshardware.com/threads/pcie-lanes-with-ryzen-5-2600-and-b450-chipset.3644539/#:~:text=No...%20the%20B450%20chipset,you're%20good%20to%20go>.