## Supply Chain Explorer: Logic chip design: Advanced CPUs

This is an export from the Emerging Technology Observatory **Supply Chain Explorer** (<a href="https://chipexplorer.eto.tech">https://chipexplorer.eto.tech</a>). You can see the web version of this content at <a href="https://chipexplorer.eto.tech/?filter-choose=input-resource&input-resource=nput-

## Logic chip design: Advanced CPUs

Central processing units ("CPUs") are the dominant general purpose logic chips. Two U.S. firms, Intel and AMD, have long held a duopoly over CPUs used for laptops, desktops, and servers. (China has several ventures, though none are competitive with U.S. firms.) CPUs are often classified into "nodes," which represent technology generations: a chip at a new node (e.g., "5 nm," released in 2020) contains approximately double the transistor density as a previous node (e.g., "7 nm," released in 2018) and is also more cost-effective.

## Notable supplier companies

- · AMD United States
- Intel United States
- Loongson (negligible market share) China (mainland)
- Phytium (negligible market share) China (mainland)
- Sunway (negligible market share) China (mainland)
- Zhaoxin (negligible market share) China (mainland)