

What is a Mainframe?

- Centralized computer with "massive amounts of processors, memory, and I/O adapters in one physical system" - [ibm.com](https://www.ibm.com)
- Capable of running complex workloads all at once in memory, which facilitates encryption of data in motion
- Allows for high utilization and high throughput all day long

What are mainframes used for?

- Commercial databases
- Transaction servers

What sets IBM zSystems apart?

- High levels of resiliency achieved through redundancy of resources such as CPU and memory
- Standardized use of Hardware Security Modules (HSMs) which allows for physical encryption of data at rest

References

- <https://www.ibm.com/topics/mainframe>
- <https://www.ibm.com/docs/en/zos-basic-skills?topic=concepts-value-mainframe-today>
- <https://www.ibm.com/products/pcie-cryptographic-coprocessor>