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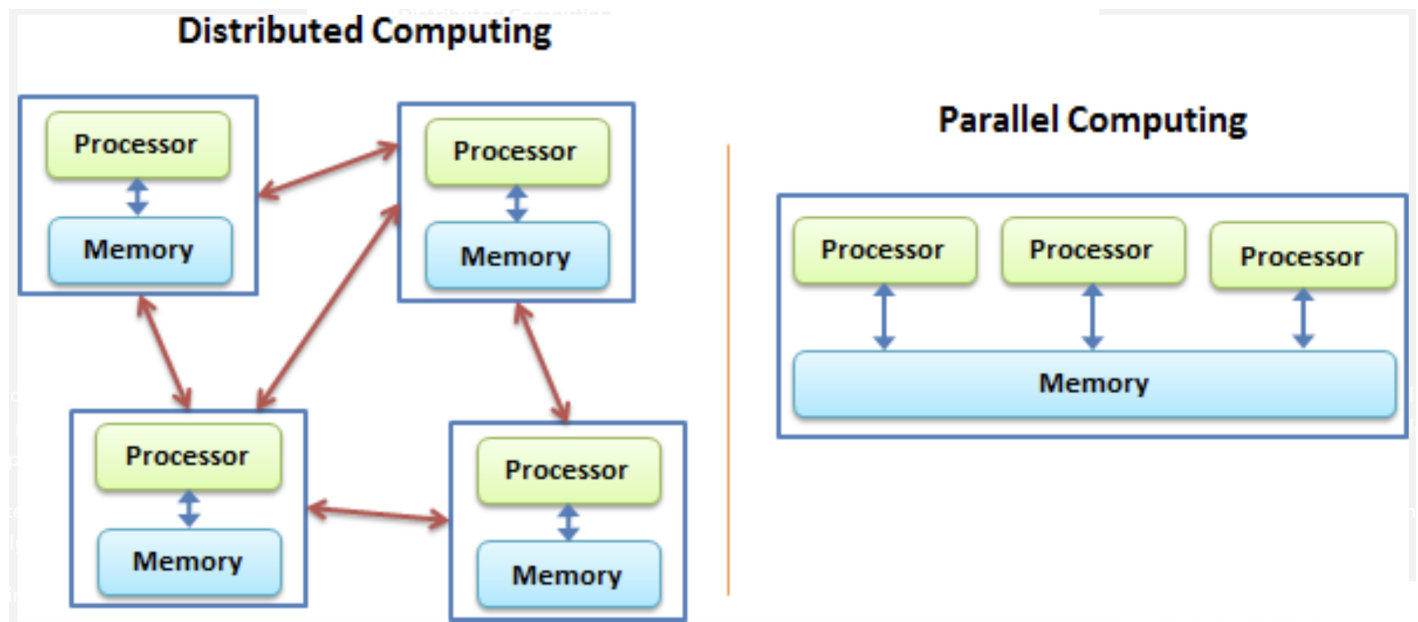
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Distributed Computing

Parallel versus distributed computing

While both distributed computing and parallel systems are widely available these days, the main difference between these two is that a parallel computing system consists of multiple processors that communicate with each other using a shared memory, whereas a distributed computing system contains multiple processors connected by a communication network.



Distributed systems offer many benefits over centralized systems, including the following:

Scalability: The system can easily be expanded by adding more machines as needed.

Redundancy: Several machines can provide the same services, so if one is unavailable, work does not stop. Additionally, because many smaller machines can be used, this redundancy does not need to be prohibitively expensive.