

Multi-processors

Applications:

- parallel processing of data
- high performance computing (algorithmic intensive)
- multiple applications/associated OS functions
- reliability/redundancy
- load balancing

Classifications:

- SISD - single instruction/single data stream
 - one core processor
- MIMD - multiple instructions/multiple data streams
 - load balancing
 - multiple applications
- SIMD - single instruction/multiple data streams
 - like weather predicting
- MISD - multiple instructions/single data stream
 - not considered commercial implementation
 - like the Hubble telescope

SMP - symmetric multi-processor

- share resources like memory