

Centralized dbms:

Single user, multi user(mysql and most of dbms) and embedded

Parallelism:

Coarse grained(single processor)

Fine grained(1000 of processors connected)

Atomic instructions:

Compare and swap

Test and set

Parallel dbms:

Motivation:

Handling of scaling of data

Operator parallelism

Linear scale up

Communication topologies:

Bus,ring,mesh,hypercube,tree like

Shared memory architecture:

Shared memory:

Disk and main memory shared among processors

Shared disk:

Only disk shared

Shared nothing:

Cluster architecture each has its own memory and disk

Hierarchical:combination of above 3 memory architectures

Small group shared

Data distribution:

Data partitioning:

Horizontal

Vertical