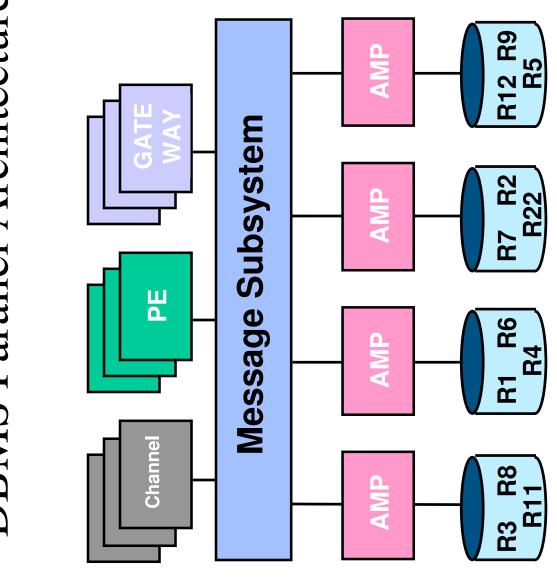
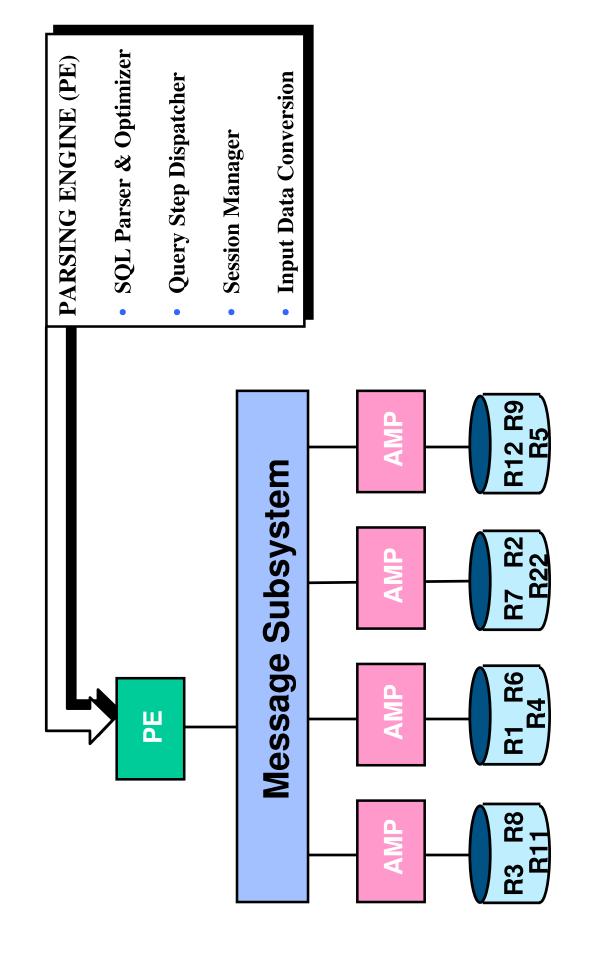
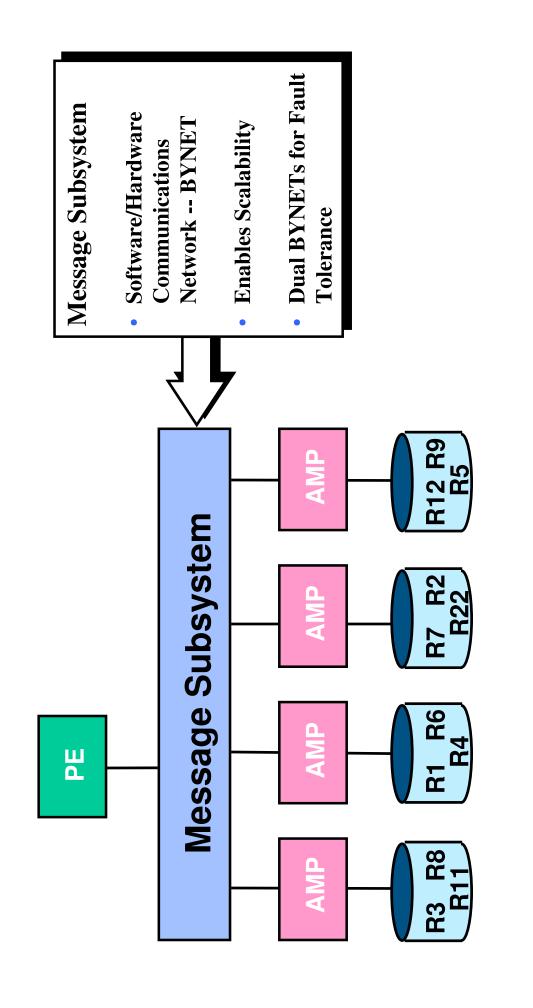
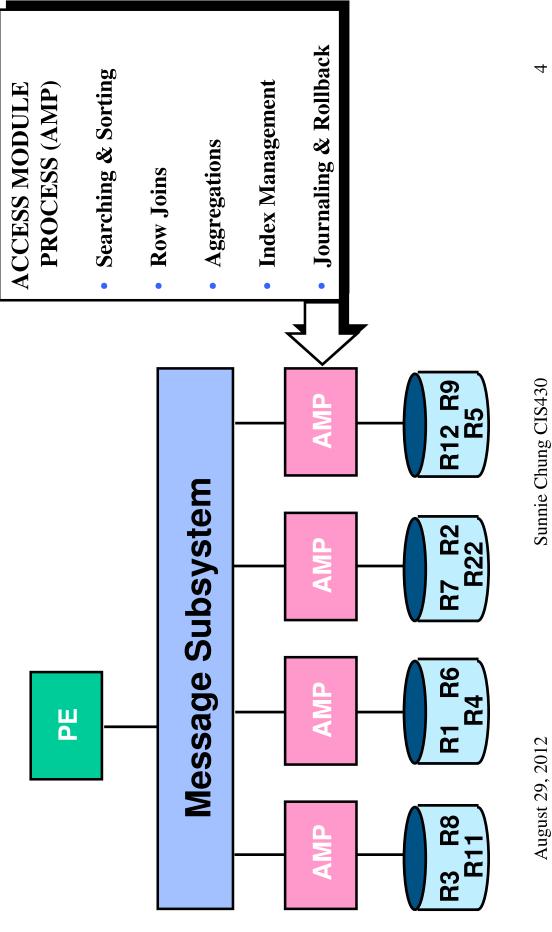
DBMS Parallel Architecture







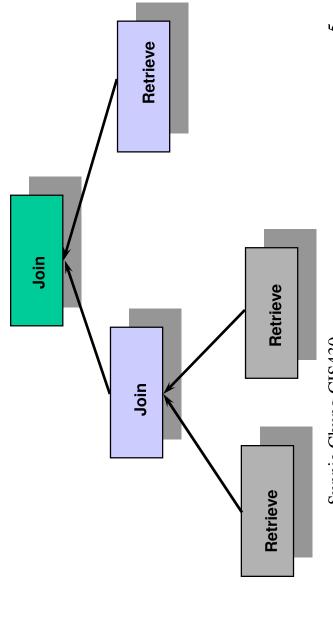
DBMS Parallel Architecture



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Parallelization

- User request parallelized by optimizer
- Single processing step sent to all vprocs simultaneously
- Optimized to only affected vprocs as appropriate
- Multiple steps launched concurrently for a single request
- Multiple requests launched concurrently for multiple users
- Allows hundreds of in flight requests for thousands of concurrent users



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• From dictionary cache if possible

• Annotate skeleton tree (database, table, column)

Derive new conditions using transitivity

Handle views and macros

Handle derived tables

Identify access requirements

Report semantic errors

Optimizer Input and Output

