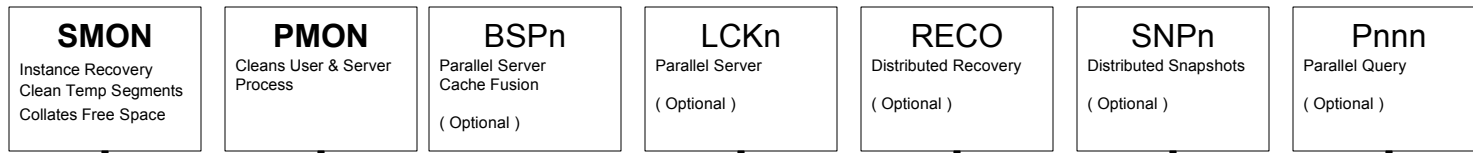


ORACLE 8i ARCHITECTURE



Instance - SGA and set of background processes
 Database - Datafiles, Control files, redo logs

5 Required Background Processes O8
 DBWR,CKPT,LGWR,PMON,SMON

Processing a Query

Parse Phase

1. User Process sends query to Server Process
2. Syntax Check (Semantics)
3. Applies hash algorithm to it.
4. Search Library Cache for existence
5. Structure Check - Object resolution
6. Security Check
7. Search Plan created (Execution Plan or Parse Tree)
8. Stores Plan

Execute Phase

1. Search Buffer Cache (Logical Read)
2. Search Datafiles (Physical Read)
3. Places blocks in Buffer

Fetch Phase

1. Return rows to user process
2. Repeats fetch for large transfers

