



Agreed subject matter for examination:

- Techniques for parallel query processing in DBMSs and in PostgreSQL. Focus on optimizer and executor engines for queries that are executed in parallel.
- Parallelization techniques that are applicable for the range merge join with specific focus on the join parallelization that PostgreSQL uses.

The content is based on the following material:

- <https://www.postgresql.org/docs/12/parallel-query.html>
- Yu Xu, Pekka Kostamaa: A new algorithm for small-large table outer joins in parallel DBMS. ICDE 2010: 1018-1024
- Jignesh M. Patel, David J. DeWitt: Clone join and shadow join: two parallel spatial join algorithms. ACM-GIS 2000: 54-61
- David J. DeWitt, Jim Gray: Parallel Database Systems: The Future of High Performance Database Systems. Commun. ACM 35(6): 85-98 (1992)