Queries

We ran the following three queries:

```sql
SELECT * FROM Sailors, Reserves, Boats WHERE Sailors.A = Reserves.G AND Sailors.A = Boats.D;

SELECT * FROM Sailors S, Reserves R WHERE S.A = R.G AND R.H = S.B;

SELECT * FROM Sailors S, Reserves R, Boats B WHERE S.A = R.G AND R.H = B.D;
```

Description

We used the same schema as in the sample queries:
- Sailors table with columns A, B, C
- Boats table with columns D, E, F
- Reserves table with columns G, H

We generated 5000 tuples per relation, where each attribute value was chosen uniformly at random in the range 0 (inclusive) to 3000 (exclusive).

Buffer Size

We used 5 pages as the buffer size for the sort in Sort-Merge Join.

Graph

These are the results of our performance benchmarking. Note that the bar for SMJ is not very visible because of the large differences in time.