

BangDB Benchmark for Streamoid use case.

Introduction

The benchmark is specific to the use case of the Streamoid's product Catalogix on MongoDB. The Catalogix is a platform for managing ecommerce product catalog for several stores, marketplaces etc. for world's best retailers providing them with AI automations built for retail.

As part of POC, BangDB has been deployed to bring in the convergence of various elements for more efficient storage of data and processing. The major goals for the POC are to assess the improvement in performance vis-à-vis current implementations and reduction in operational (both dev and management) overhead. To achieve this BangDB has implemented a Schema which defines the logic for ingestion of events/data, processing of various elements, some running stats, ETL etc. as part of the stream processing. Further it also defines the logic for auto-updating the underlying graph to maintain the sub-pred-obj triple to allow query to leverage the natural relationships for query and avoid the run time joins etc. There are many other aspects which we have not yet implemented and integrated namely ML of stream, pattern/anomaly detection, actions, etc. which could be later augmented as required.

Further, to evaluate this in an interactive manner, a test portal has been created on Ampere mimicking the UI flow of the Catalogix (from query perspective and not from look-n-feel)

Setup

Data

Streamoid: Around 25GB database on Prod on MongoDB, so we tried to use 3X overall of this size on BangDB

BangDB: Around 77 GB for Graph and Stream (Overall size 137GB)

[extra 60GB document, BRS, Logs, stats, entities etc.]

1M max product in any store

1900 stores

650K SMP_Parent, images, status

9.3M marketplace data

Around 3X+ data as compared to Streamoid Production Database

Machine

Cloud: GCP

VM: c2-standard-16

RAM: 64GB

CPU: 8 Core, 16vCPU

Disk: 500GB SSD Persistent disk

OS: Ubuntu 18.04 LTS

Arch: x86/64, AMD

Client

All tests are done using REST APIs. The C++, Java clients could be used for far better performance, but the Catalogix works using REST API hence we used the same.

Protocol: HTTP 1.1

Methods: HEAD, GET, POST, PUT, DELETE

Supported Headers

- o Content-Type: application/json, Content-Type: text/plain
- o Connection: keep-alive
- o Access-Control-Allow-Origin: *
- o Access-Control-Allow-Methods: *
- o Access-Control-Allow-Headers: *
- o Vary :*
- o Access-Control-Max-Age:3600
- o x-bang-api-key: <api_key>

Binary data or object should be passed with base64 encoding using Content-Type: text/plain

There is a separate document which describes the queries and API details, attached with this doc.

Below are several sections detailing the different runs for performance benchmark.

Queries [Read Operations]

The queries used are the ones that are run on Catalogix all the time for various interactions. To compare the performance numbers for these queries with Catalogix and BangDB, following dataset was used.

Catalogix 200 Store with 134K products

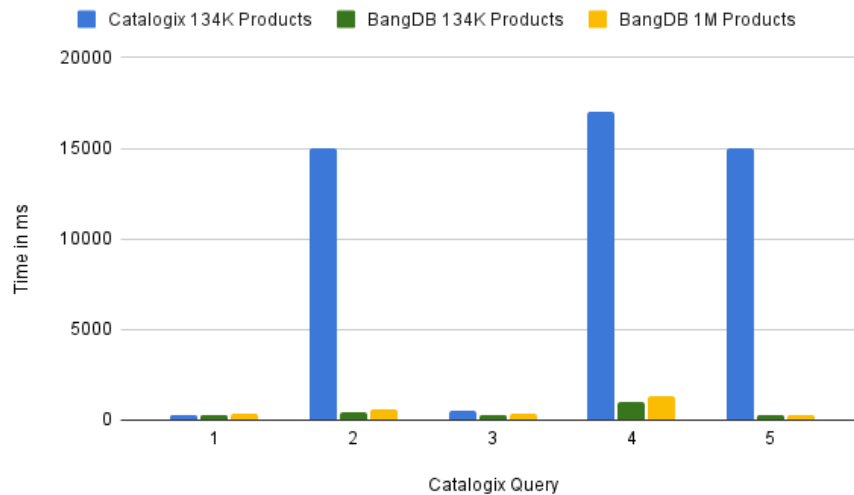
BangDB 200 Store with 134K products

BangDB POC Store with 1M products

The queries and their execution time in milli-sec (excluding the Network time) are as follows;

Num	Query	MongoDB 134K Products	BangDB 134K Products	BangDB 1M Products
1	Get variation, style and total products for a store	275	316	318
2	Get 50 products for a given store - UI first query	15000	402	601
3	Get custom and marketplace data for a given product	500	309	347

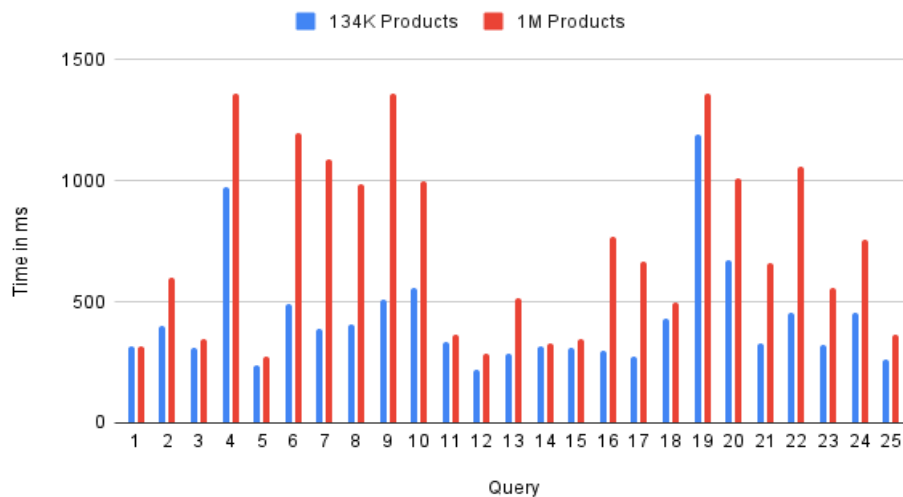
4	List product for a store in ascending modified date	17000	976	1300
5	Fetch select attributes for product of a store	15000	238	277



Since we had only these queries being used at Catalogix, so we ran more queries on BangDB and below are their performance numbers (time in milli sec)

Num	Query	134K Products	1M Products
query 1	Get variation, style and total products for a store	316	318
query 2	Get 50 products for a given store - UI first query	402	601
query 3	Get custom and marketplace data for a given product	309	347
query 4	List product for a store in ascending modified date	976	1360
query 5	Fetch all attributes for product of a store	238	277
query 6	Fetch select attributes for product of a store	489	1200
query 7	Fetch data in rel with conditions	390	1090
query 8	Fetch product groups (SMP_Parent) for a store	410	987
query 9	Count total product_groups for a store	511	1360
query 10	Chain query to get store, product and SMP data	560	996
query 11	Required fields and SMP fields	334	365
query 12	Query for total stores count	217	287
query 13	Fetch all data for a store node (can have config file and other attribute level details as node properties)	284	517
query 14	Fetch details for a particular store	316	330
query 15	Count for related stores	309	347

query 16	Fetch shared stores SMP data	298	770
query 17	Get total num of products	276	668
query 18	Fetching 50 randon products	430	495
query 19	Fetch all product related to a group	1190	1360
query 20	Filter condition on chain query - returns selected fields	674	1010
query 21	Fetch selected data for all images related to a store	329	659
query 22	Get all images nodes	456	1060
query 23	Fetch status and product_group (SMP_parent) details for a store	324	560
query 24	Fetch product details and status details	453	760
query 25	Fetch given marketplace data for a store	265	364



The above were numbers for read operations, now in next section, we will go into write performances.

Write Operations

This section will cover the write operations and its throughput, performance numbers while data ingestions, insert, and updates. Following are the details for the test.

The benchmark test for write was done for Product data, Marketplace data and Status data. The test was run with following details.

Num of parallel simultaneous connections: 8 [DB used 8 threads]
Method: POST, REST

We selected these data for various reasons. Product data write is heavy as it involves 13 write operations and 9 read operations to insert just one record. Whereas Marketplace data is moderate, and it requires just 13 write operations and no read at all. Finally, status data is

light weight since it involves only 2 write operations and no read for inserting one status record.

The data was split into multiple parts and the summary of each part as mentioned in the appendix.

Product data

1. product_details_1_1.json - 224.6MB
2. product_details_1_2.json - 224 MB
3. product_details_1_3.json - 111.8 MB
4. product_details_1_4.json - 111.8 MB
5. product_details_1_5.json - 111.9 MB
6. product_details_1_6.json - 111.9 MB
7. product_details_1_7.json - 111.9 MB
8. product_details_1_8.json - 111.9 MB

Market place data

1. amazon_1.json - 219.9 MB
2. marketplace_1.json - 188.5 MB
3. marketplace_1_3.json - 181.8 MB
4. marketplace_1_4.json - 36.4 MB
5. marketplace_1_5.json - 92.6 MB
6. marketplace_1_6.json - 92.6 MB
7. marketplace_1_7.json - 181.8 MB
8. marketplace_1_8.json - 36.3 MB

status data

1. status_details_1.json - 10.1 MB
2. status_details_1_2.json - 10.1 MB
3. status_details_1_3.json - 6 MB
4. status_details_1_4.json - 9.4 MB
5. status_details_1_5.json - 6 MB
6. status_details_1_6.json - 4 MB
7. status_details_1_7.json - 6 MB
8. status_details_1_8.json - 4 MB

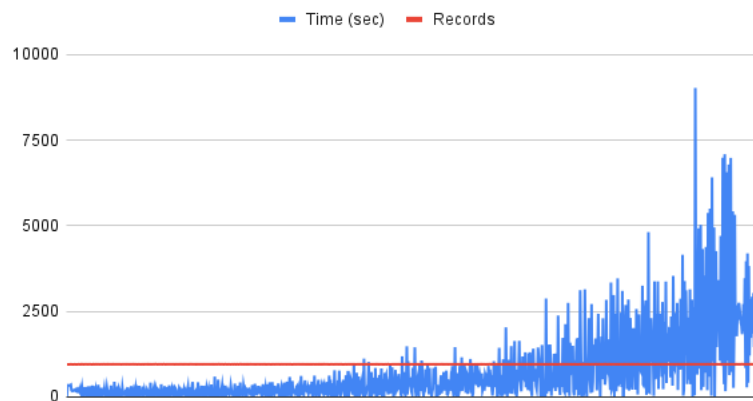
Following are the summary of the test.

Data	Num of rows	Size (MB)	Time (Sec)	IO ops per record	Event/sec	IOPS	MB/sec
Product	1000000	1068	728	22	1374	30220	1.47
MarketPlace	760000	982	172	13	4419	57442	5.71
Status	260000	54	11	2	23636	47273	4.91

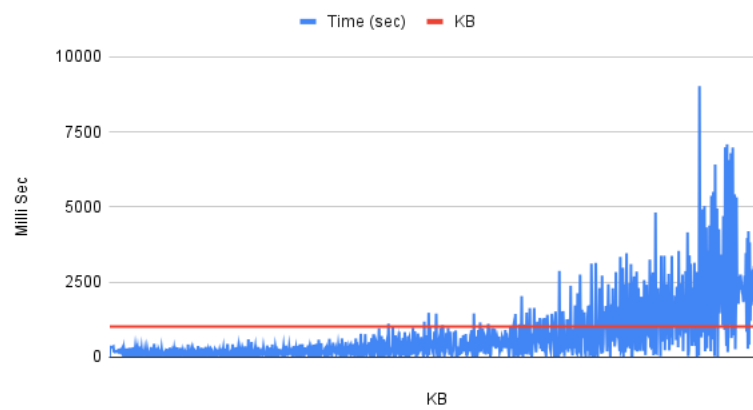
Below are the charts depicting the behaviour of the operations from beginning to end.

Product Data

Time(ms) to write 1000 records for 1M Product records

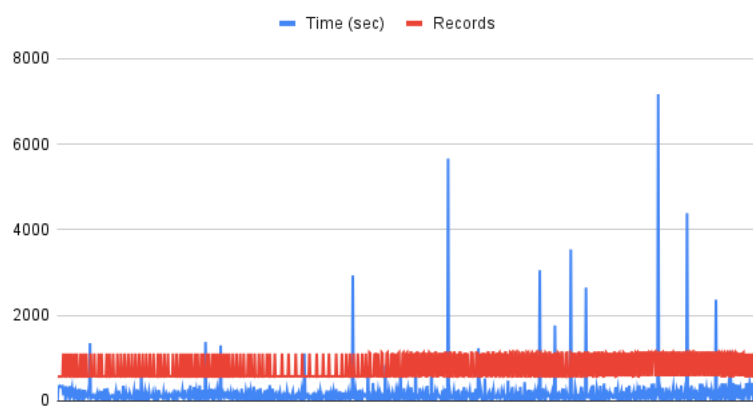


Time(ms) to write 1024 KB data for 1GB of Product data



MarketPlace data

Time(ms) to write 1000 records for 760K MarketPlace records



The bar chart displays the frequency of records for different execution times. The x-axis represents the execution time in milliseconds, and the y-axis represents the number of records. The data shows a distribution with a prominent peak at 5267 milliseconds, where the number of records exceeds 2000.

Records (Milli Sec)	Frequency (Count)
5220	200
5212	50
5188	200
5188	200
5188	200
5188	200
5188	200
5188	200
5264	400
5264	200
5240	100
5240	100
5240	100
5240	100
5240	100
5188	200
5188	200
5188	200
5188	200
5188	200
5264	750
5264	200
5240	50
5240	200
5240	50
5240	200
5240	50
5267	1550
5267	2250
5249	200
5240	200
5240	200
5240	200
5240	200

Time (sec)	Nodes
1023.54492	200
1023.48046	200
1023.41406	250
1023.41406	150
1023.41406	150
1023.41406	150
1023.41406	150
1023.41406	150
1023.50781	400
1023.50781	200
1023.4375	100
1023.4375	100
1023.4375	100
1023.4375	100
1023.4375	100
1023.41406	150
1023.41406	150
1023.41406	150
1023.41406	150
1023.41406	150
1023.50781	750
1023.50781	150
1023.4375	150
1023.4375	100
1023.4375	150
1023.4375	100
1023.56738	1550
1023.50293	2300
1023.4375	250
1023.4375	250
1023.4375	250
1023.4375	250
1023.4375	250

Summary

- For Catalogix use case perspective, BangDB eliminates the bottleneck of low performance as it's ~10-15X faster on an average for slower queries over there.
- BangDB also eliminates the middle app layer where various computations happen, reason for the low performance as app was doing the DB job.
- For read query, BangDB performs and scales well for even 3X of prod size data.
- BangDB allows data to grow beyond memory and still work efficiently. This may allow user to maintain and scale gracefully.
- The write operations with mixed reads as well, scales well. It provides high IOPS for concurrent write of different kind of data in continuous manner. Therefore, it will allow users to perform read and write in random and mixed manner with high performance.
- Catalogix integration should be simple as there are only 5 queries for which it needs to make changes at the FE level.
- There are more features withing BangDB that could be utilized in coming days. Verifications, ETL, Filter, running join, CEP, auto ML etc. are few for example.
- There are quite a few scope of improvements in the implementation too, but we can optimize later.

Appendix

The Product, Marketplace and Status data ingestion performance points.

Time (ms)	Records	KB		Time (ms)	Records	KB		Time (ms)	Records	KB	
0	952	1020.779297		0	571	1019.194336		0	5220	1023.544922	
340.578	953	1021.333984		328.366	571	1019.472656		222.108	5240	1023.4375	
342.238	953	1020.748047		330.196	572	1019.37793		32.23	5212	1023.480469	
334.345	951	1021.086914		351.436	571	1019.400391		229.392	5240	1023.4375	
337.303	953	1021.645508		331.075	571	1019.118164		31.405	5188	1023.414063	
342.276	953	1021.165039		331.611	571	1018.96875		243.488	5188	1023.414063	
355.893	956	1021.539063		345.534	571	1019.859375		190.217	5188	1023.414063	
190.019	954	1020.756836		347.408	572	1020.173828		189.113	5188	1023.414063	
176.028	952	1021.600586		167.477	1111	1021.866211		188.898	5188	1023.414063	
194.884	953	1021.598633		174.919	571	1019.698242		187.136	5188	1023.414063	
180.53	953	1021.685547		331.929	1110	1021.282227		191.315	5188	1023.414063	
189.251	953	1021.725586		15.032	572	1020.145508		402.829	5272	1023.455078	
207.994	955	1021.699219		345.867	572	1019.905273		212.765	5264	1023.507813	
185.482	953	1021.640625		153.915	1110	1021.553711		169.351	5220	1023.544922	

216.609	952	1021.041016		190.264	572	1019.660156		90.41	5240	1023.4375	
180.512	953	1021.483398		317.333	1110	1021.65918		162.667	5212	1023.480469	
220.158	953	1021.319336		26.174	572	1019.87793		102.484	5240	1023.4375	
181.016	954	1020.841797		347.931	571	1019.025391		151.026	5188	1023.414063	
222.139	954	1021.566406		130.656	1111	1021.848633		110.855	5240	1023.4375	
174.124	952	1020.908203		215.705	572	1020.038086		146.233	5188	1023.414063	
248.522	954	1021.19043		302.594	1110	1022.083984		192.166	5188	1023.414063	
114.482	959	1021.470703		68.714	571	1019.390625		182.889	5188	1023.414063	
45.75	951	1020.924805		314.098	577	1020.28418		184.356	5188	1023.414063	
252.569	955	1021.487305		34.531	572	1019.545898		184.777	5188	1023.414063	
105.49	958	1021.589844		107.481	1109	1021.620117		183.665	5188	1023.414063	
51.71	951	1020.986328		195.726	577	1019.615234		777.593	5272	1023.455078	
285.307	954	1021.092773		42.94	572	1019.045898		202.789	5264	1023.507813	
65.64	957	1021.495117		273.296	1110	1021.407227		201.86	5240	1023.4375	
59.531	954	1021.59668		20.486	576	1019.629883		56.264	5240	1023.4375	
293.176	954	1020.8125		51.882	571	1019.199219		201.018	5240	1023.4375	
47.107	957	1021.786133		285.222	576	1018.649414		55.169	5240	1023.4375	
71.231	952	1021.021484		66.59	572	1019.964844		204.075	5240	1023.4375	
310.127	954	1021.436523		104.568	1111	1022.00293		59.213	5240	1023.4375	
18.544	956	1020.792969		167.332	576	1019.163086		1555.843	5272	1023.455078	
86.68	955	1021.518555		73.397	571	1019.46875		5.499	5267	1023.567383	
311.344	957	1021.544922		264.794	576	1019.916016		2312.95	5264	1023.507813	
2.945	954	1021.657227		6.95	1111	1021.660156		0.189	5249	1023.50293	
100.479	951	1021.397461		74.626	572	1020.457031		244.07	5240	1023.4375	
335.259	952	1020.995117		258.808	576	1018.780273		1.19	5240	1023.4375	
7.844	959	1021.828125		93.189	572	1019.891602		241.783	5240	1023.4375	
106.857	953	1020.869141		100.95	1110	1021.754883		1.4	5240	1023.4375	
315.904	954	1021.693359		145.431	576	1018.80957		249.411	5240	1023.4375	
124.314	952	1021.59668		105.298	572	1019.993164		0.276	5240	1023.4375	
217.877	958	1021.623047		236.691	576	1020.24707		241.225	5240	1023.4375	
10.466	957	1021.139648		116.739	572	1019.688477		189.626	5240	1023.4375	
215.668	953	1021.709961		1350.264	576	1019.72168		188.607	5240	1023.4375	
7.155	956	1021.545898		54.527	1111	1021.838867					
355.895	956	1021.442383		57.472	576	1018.958008					
73.294	956	1021.061523		122.745	572	1019.666992					

28.167	952	1021.802734		104.582	576	1019.951172		
63.046	954	1020.975586		137.604	576	1019.701172		
264.877	958	1021.580078		98.218	1110	1021.352539		
57.259	958	1020.973633		111.375	577	1019.860352		
142.371	953	1021.183594		28.329	572	1020.28125		
70.608	954	1021.691406		127.422	577	1019.695313		
86.99	957	1021.304688		185.783	576	1019.556641		
234.466	959	1021.844727		48.296	572	1019.493164		
53.827	955	1021.082031		73.137	1110	1021.832031		
95.852	953	1021.235352		147.286	576	1018.639648		
30.444	954	1021.768555		77.288	575	1019.302734		
267.892	957	1020.80957		52.304	571	1019.915039		
137.612	959	1021.761719		234.708	1110	1021.584961		
56.225	953	1021.618164		57.679	576	1020.080078		
105.844	957	1021.694336		32.794	576	1020.308594		
23.047	954	1021.219727		26.144	572	1019.726563		
136.297	956	1021.582031		287.169	576	1018.837891		
336.3	954	1021.068359		32.552	576	1018.735352		
11.951	955	1021.280273		30.36	571	1018.734375		
39.153	953	1021.243164		57.79	1110	1022.060547		
57.718	959	1021.40332		300.305	576	1020.133789		
53.337	956	1021.325195		31.347	577	1020.275391		
444.726	955	1020.980469		151.147	571	1019.115234		
9.425	954	1021.651367		112.547	1111	1021.902344		
124.099	955	1020.911133		45.137	576	1019.621094		
2.432	958	1021.205078		87.247	576	1018.72168		
37.123	958	1021.466797		119.103	571	1018.567383		
310.116	956	1021.235352		138.579	576	1020.125		
6.85	956	1021.694336		125.786	1111	1021.518555		
250.998	956	1021.557617		70.65	576	1019.233398		
192.538	958	1021.511719		19.161	571	1019.111328		
4.933	957	1021.481445		124.38	576	1019.566406		
93.521	953	1021.539063		230.488	572	1019.182617		
25.36	953	1020.854492		81.553	576	1019.857422		
265.499	958	1020.806641		0.544	1110	1021.75293		

106.081	958	1021.862305		33.396	576	1018.733398		
81.112	954	1020.746094		242.656	572	1020.344727		
128.445	954	1020.998047		99.837	576	1020.463867		
155.794	954	1021.40332		79.048	576	1019.28418		
67.478	956	1021.199219		60.539	1111	1021.655273		
145.267	953	1020.935547		118.252	572	1019.629883		
53.914	958	1021.609375		83.436	577	1020.112305		
280.878	956	1021.334961		355.713	576	1019.289063		
43.578	957	1021.255859		85.459	572	1018.996094		
111.062	955	1021.257813		38.471	1110	1021.400391		
36.584	952	1021.404297		33.7	575	1019.09375		
86.069	957	1020.712891		191.536	577	1019.776367		
314.572	956	1020.848633		92.182	572	1019.772461		
91.595	954	1021.850586		125.566	577	1020.369141		
21.913	955	1021.075195		78.462	1111	1021.493164		
167.132	959	1021.603516		50.883	576	1020.045898		
77.931	954	1021.370117		187.71	572	1019.654297		
172.721	957	1021.025391		124.901	576	1019.272461		
62.359	953	1020.916016		114.793	576	1019.779297		
244.933	955	1021.53125		43.062	1111	1021.360352		
85.883	957	1020.912109		75.61	572	1020.288086		
168.171	952	1021.21875		111.166	576	1019.204102		
14.487	953	1021.652344		231.927	577	1020.158203		
26.061	957	1021.647461		17.29	571	1018.916016		
326.706	956	1020.661133		82.789	1110	1021.296875		
72.732	954	1021.051758		13.164	576	1019.494141		
53.161	952	1020.679688		275.753	571	1018.77832		
128.347	955	1020.823242		70.498	576	1019.731445		
100.62	951	1020.793945		1.397	576	1019.714844		
307.155	956	1021.029297		164.377	1111	1022.003906		
10.046	957	1021.833008		125.761	571	1018.69043		
52.122	951	1020.816406		56.788	576	1019.022461		
208.978	957	1020.607422		625.215	577	1020.295898		
117.01	954	1020.84668		199.735	572	1019.144531		
149.44	955	1021.3125		47.169	1111	1021.96582		

51.295	955	1021.072266		10.906	576	1019.641602		
216.02	956	1020.821289		90.527	576	1019.033203		
173.35	959	1021.603516		212.18	572	1020.048828		
114.986	951	1021.169922		45.453	576	1018.996094		
18.917	955	1021.300781		163.224	1111	1021.982422		
20.415	958	1021.138672		93.332	577	1019.676758		
420.531	956	1021.404297		138.032	576	1019.96875		
49.056	952	1021.072266		12.512	573	1020.132813		
13.877	954	1021.212891		198.316	576	1019.603516		
38.644	957	1021.003906		82.34	1111	1021.439453		
193.734	957	1021.144531		84.953	572	1019.15918		
272.533	954	1021.782227		82.729	576	1019.488281		
0.972	955	1020.961914		99.684	576	1019.265625		
70.731	959	1021.458008		181.691	572	1018.892578		
230.798	960	1021.770508		74.93	1110	1021.381836		
132.434	957	1021.643555		87.918	576	1020.035156		
68.038	953	1021.735352		7.869	576	1019.785156		
225.136	953	1021.430664		206.311	572	1020.108398		
200.649	957	1021.663086		145.038	576	1019.423828		
44.777	957	1021.228516		54.198	576	1019.814453		
105.921	957	1020.861328		23.161	1111	1022.139648		
8.321	954	1021.357422		260.307	570	1018.574219		
372.073	955	1020.621094		111.217	576	1019.949219		
121.633	955	1020.683594		151.062	576	1019.597656		
9.801	952	1020.701172		100.948	1110	1021.291992		
67.348	957	1020.958008		90.025	572	1019.646484		
84.063	960	1020.918945		95.257	576	1020.113281		
314.031	958	1020.664063		62.659	576	1019.661133		
55.932	953	1021.28125		206.183	571	1019.228516		
94.396	952	1020.760742		69.228	1110	1022.081055		
33.544	958	1021.310547		71.803	576	1019.87207		
292.273	958	1021.586914		54.231	576	1019.40332		
61.937	957	1021.054688		169.899	572	1020.072266		
24.022	954	1021.604492		126.494	577	1019.597656		
342.639	954	1021.411133		104.396	1111	1021.557617		

32.889	956	1021.492188		11.43	576	1020.34668		
60.127	956	1021.428711		136.08	572	1019.69043		
127.297	955	1021.251953		102.062	577	1019.611328		
235.215	957	1021.063477		114.616	576	1019.186523		
117.234	958	1021.352539		151.833	572	1020.414063		
186.656	954	1021.770508		93.797	577	1019.854492		
1.394	957	1021.179688		30.02	1110	1021.829102		
28.068	951	1020.770508		77.373	576	1019.430664		
261.775	957	1021.635742		268.789	572	1020.053711		
228.407	958	1020.947266		73.53	576	1019.771484		
7.204	953	1021		108.705	576	1019.448242		
139.485	957	1020.641602		151.945	1110	1021.967773		
111.748	957	1020.957031		32.525	571	1018.958008		
17.708	956	1021.601563		167.629	576	1018.791016		
267.546	952	1020.80957		198.834	572	1019.801758		
233.19	957	1021.007813		157.775	576	1019.990234		
13.447	959	1021.753906		134.568	1110	1021.220703		
134.311	955	1021.029297		100.122	571	1019.009766		
68.481	954	1021.514648		120.413	576	1020.082031		
161.542	953	1020.620117		245.732	572	1020.026367		
128.989	958	1021.78418		62.034	1110	1021.928711		
229.019	953	1020.739258		50.673	577	1019.738281		
110.534	958	1021.683594		255.012	571	1018.949219		
162.857	954	1021.048828		102.314	576	1019.024414		
4.105	958	1021.236328		130.318	1111	1021.975586		
65.941	956	1021.203125		135.215	572	1020.055664		
161.43	955	1021.216797		90.368	577	1019.987305		
285.596	956	1021.800781		280.106	571	1018.710938		
5.031	951	1020.883789		35.47	1111	1021.988281		
279.836	958	1021.833008		46.429	576	1019.675781		
95.936	955	1020.714844		362.737	572	1020.395508		
4.167	958	1021.09082		67.045	576	1018.926758		
155.657	959	1021.833984		131.021	1111	1022.047852		
10.157	956	1021.767578		176.86	572	1020.210938		
440.543	954	1021.692383		51.777	575	1019.029297		

71.773	957	1021.108398		328.029	571	1020.073242		
0.355	954	1021.271484		38.856	577	1020.025391		
146.627	956	1020.855469		114.327	1110	1021.691406		
159.285	957	1021.319336		223.577	571	1018.779297		
191.678	951	1020.90332		21.66	576	1018.841797		
23.757	958	1021.291992		286.96	1110	1021.293945		
30.736	953	1020.875977		65.846	571	1019.055664		
428.726	957	1021.211914		5.741	576	1019.512695		
74.632	957	1020.865234		361.217	576	1019.169922		
41.058	955	1021.443359		9.911	573	1020.175781		
61.946	953	1021.133789		98.032	1111	1021.853516		
114.356	956	1020.775391		252.679	576	1020.050781		
331.088	956	1021.542969		22.712	572	1020.212891		
42.12	955	1021.064453		258.699	1111	1022.004883		
31.357	953	1020.6875		82.754	576	1019.131836		
166.99	958	1020.945313		41.367	571	1018.880859		
322.307	957	1020.769531		1380.41	577	1020.001953		
41.699	954	1020.976563		53.291	571	1019.394531		
141.462	954	1021.589844		52.804	1111	1021.865234		
33.215	955	1021.368164		258.699	576	1019.508789		
260.416	956	1020.895508		72.634	572	1018.813477		
152.635	955	1021.510742		214.47	1111	1022.009766		
99.629	956	1021.397461		84.868	576	1019.224609		
221.231	954	1021.241211		82.355	572	1019.94043		
50.232	957	1021.446289		289.185	576	1019.056641		
141.415	957	1021.457031		89.631	571	1019.351563		
69.205	953	1020.772461		1.715	1110	1021.515625		
363.451	958	1021.634766		273.1	576	1019.476563		
66.864	957	1021.005859		105.494	572	1020.141602		
98.168	952	1021.193359		178.103	1111	1022.080078		
24.525	958	1021.115234		85.118	576	1019.892578		
1.91	954	1021.356445		114.255	571	1018.819336		
595.871	953	1020.632813		251.61	576	1019.847656		
3.175	958	1021.607422		101.472	1111	1021.793945		
63.194	956	1020.990234		28.639	571	1018.989258		

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58.368	953	1021.711914		148.665	572	1020.00293		
506.254	954	1021.352539		1297.553	1110	1021.274414		
99.831	961	1021.679688		77.182	576	1019.089844		
159.573	958	1021.414063		165.695	572	1019.516602		
66.794	953	1021.607422		204.65	576	1019.529297		
37.483	958	1020.923828		103.262	1110	1021.348633		
200.141	954	1021.569336		75.543	572	1019.875977		
331.668	957	1020.821289		193.033	576	1019.40332		
66.179	958	1021.161133		192.473	572	1020.384766		
170.03	953	1020.793945		96.656	1111	1021.777344		
30.013	953	1021.635742		85.209	576	1019.175781		
104.252	957	1021.835938		206.61	572	1019.166016		
332.02	960	1021.649414		164.516	577	1019.858398		
16.694	956	1021.046875		91.886	1110	1021.546875		
190.763	953	1020.951172		126.117	572	1020.100586		
137.508	952	1021.269531		209.924	577	1019.943359		
190.091	957	1021.746094		62.288	577	1020.322266		
106.698	955	1020.804688		111.205	572	1019.65918		
58.421	957	1020.833008		37.321	1110	1021.487305		
120.414	953	1021.40625		157.562	576	1018.939453		
323.94	951	1020.938477		84.686	577	1019.978516		
178.481	955	1021.014648		111.107	572	1019.083984		
112.675	957	1021.306641		264	576	1019.188477		
45.583	958	1021.165039		23.727	1111	1021.629883		
42.641	952	1020.644531		139.097	576	1018.712891		
161.997	954	1021.305664		44.337	571	1018.981445		
388.307	958	1021.557617		162.863	577	1019.457031		
139.885	953	1021.144531		128.185	576	1019.515625		
26.137	953	1021.145508		70.315	1110	1021.296875		
108.727	959	1021.664063		30.693	572	1019.326172		
120.279	957	1021.835938		286.696	576	1019.740234		
324.29	952	1021.138672		64.699	577	1020.09668		
18.088	953	1020.908203		53.903	572	1020.015625		
17.201	958	1021.431641		111.773	1111	1021.667969		

424.256	959	1021.52832		147.844	577	1020.110352		
85.145	953	1021.294922		25.072	577	1020.099609		
122.917	959	1021.130859		218.597	572	1020.174805		
60.188	956	1020.984375		116.186	576	1018.830078		
51.007	954	1020.813477		10.547	576	1019.143555		
334.837	952	1020.918945		32.216	1111	1021.964844		
209.073	958	1021.294922		307.215	577	1020.420898		
246.242	953	1021.860352		20.227	571	1018.936523		
69.785	956	1021.621094		10.511	576	1020.357422		
87.355	958	1021.230469		212.425	1111	1022.185547		
23.151	952	1020.924805		93.662	577	1020.304688		
220.661	958	1021.509766		67.833	576	1019.570313		
204.662	952	1021.703125		2.608	572	1020.010742		
223.063	956	1020.798828		335.365	576	1019.423828		
160.523	953	1020.864258		113.785	1110	1021.639648		
73.639	956	1020.942383		1.494	571	1018.80957		
66.42	959	1021.464844		120.099	577	1020.258789		
171.29	954	1020.686523		106.515	576	1018.970703		
348.954	956	1021.054688		269.27	577	1020.422852		
130.321	954	1021.439453		1.272	572	1019.806641		
13.27	957	1021.097656		53.937	1111	1021.826172		
95.488	952	1021.685547		17.771	577	1019.863281		
385.146	958	1021.577148		301.105	576	1018.84668		
191.127	958	1021.023438		35.851	576	1019.354492		
84.312	952	1021.170898		96.198	572	1020.311523		
78.274	955	1021.768555		102.404	1110	1021.817383		
99.802	958	1021.043945		138.804	576	1019.558594		
323.887	957	1021.262695		11.806	576	1018.908203		
143.658	955	1021.266602		249.295	571	1018.766602		
137.173	957	1021.870117		92.419	576	1019.981445		
116.955	952	1021.011719		20.006	576	1019.370117		
307.842	956	1020.835938		42.737	1110	1021.442383		
19.705	954	1021.769531		275.125	577	1020.109375		
41.744	956	1020.636719		55.422	576	1018.961914		
374.86	953	1021.12793		22.066	571	1018.836914		

121.455	958	1021.303711		370.724	1110	1021.225586		
108.606	955	1021.181641		60.421	577	1018.930664		
67.326	958	1021.699219		92.02	576	1019.492188		
259.586	952	1020.973633		43.663	571	1018.821289		
99.545	955	1020.974609		288.434	576	1019.90625		
369.851	951	1020.924805		80.391	576	1019.414063		
9.45	956	1021.739258		25.127	571	1019.689453		
151.13	954	1021.086914		141.472	1111	1022.095703		
120.872	956	1021.175781		173.885	576	1019.952148		
428.988	957	1021.110352		87.844	576	1018.916016		
15.598	953	1021.47168		81.828	577	1019.773438		
68.59	952	1020.862305		4.971	572	1019.823242		
55.888	957	1021.029297		163.211	576	1019.983398		
433.142	952	1020.750977		131.936	576	1020.074219		
109.34	956	1020.992188		205.683	577	1019.916016		
95.457	956	1021.268555		4.366	571	1018.737305		
59.53	952	1020.703125		74.539	577	1020.375977		
327.855	955	1021.514648		2.503	1110	1021.332031		
128.4	957	1020.612305		104.532	576	1019.892578		
120.737	958	1021.589844		154.731	577	1019.43457		
138.59	955	1020.975586		87.964	572	1020.433594		
193.552	954	1021.649414		135.672	576	1018.789063		
395.667	958	1021.823242		97.688	576	1019.525391		
3.427	956	1020.919922		17.867	576	1019.217773		
212.841	954	1021.504883		225.402	571	1019.124023		
18.555	952	1021.084961		120.247	576	1019.09668		
176.31	958	1020.640625		74.06	1110	1021.913086		
314.493	956	1020.799805		128.704	576	1019.560547		
224.249	956	1021.769531		97.394	575	1018.685547		
19.426	953	1021.673828		43.596	572	1019.875977		
161.708	955	1021.013672		39.3	576	1020.170898		
417.972	957	1021.865234		160.156	577	1019.860352		
38.884	955	1021.764648		224.987	575	1018.926758		
80.932	954	1021.5		85.376	571	1019.755859		
142.712	957	1021.753906		31.466	576	1019.366211		

445.738	952	1021.119141		1.178	577	1020.032227		
58.219	956	1020.87207		125.409	1110	1021.307617		
59.933	954	1021.792969		148.746	576	1018.810547		
103.569	957	1021.088867		64.946	576	1018.916992		
584.025	953	1021.552734		81.031	571	1019.382813		
83.858	958	1021.65625		167.263	577	1020.432617		
24.687	955	1020.87207		68.255	576	1019.952148		
21.011	951	1021.117188		25.558	576	1018.875		
466.025	951	1021.429688		131.13	571	1018.819336		
131.138	956	1021.344727		236.576	576	1019.118164		
158.581	953	1021.390625		14.191	1111	1021.783203		
164.824	956	1021.587891		111.914	577	1020.329102		
192.813	954	1020.702148		6.539	576	1019.077148		
33.518	955	1020.925781		1109.927	571	1018.50293		
292.737	953	1021.820313		215.325	576	1019.785156		
320.23	954	1020.77832		81.009	577	1019.516602		
131.83	955	1021.052734		98.541	571	1018.994141		
247.078	957	1021.594727		133.66	577	1020.40918		
107.956	958	1021.482422		74.478	576	1019.50293		
25.501	953	1021.05957		116.761	577	1020.011719		
132.189	954	1020.952148		62.536	1111	1021.986328		
612.758	956	1021.587891		115.032	572	1019.725586		
53.057	953	1021.566406		118.416	576	1020.402344		
224.371	958	1021.09668		101.026	576	1019.023438		
78.19	953	1021.317383		21.238	576	1018.916016		
55.142	955	1021.514648		163.854	571	1019.199219		
287.352	953	1021.294922		176.963	576	1019.447266		
485.213	956	1021.424805		36.826	577	1020.385742		
200.558	953	1020.957031		188.734	577	1020.21582		
179.225	953	1021.69043		1.753	571	1019.152344		
156.604	958	1021.708984		14.154	1111	1021.398438		
256.532	956	1021.713867		100.349	577	1019.788086		
90.737	952	1020.756836		181.534	576	1019.09668		
164.776	957	1021.868164		120.5	571	1019.09375		
149.216	952	1020.928711		39.131	576	1018.992188		

363.332	952	1021.574219		214.835	576	1019.553711		
164.412	958	1020.810547		92.09	576	1019.75		
449.994	952	1020.87207		136.285	572	1019.535156		
11.217	957	1021.071289		46.494	576	1019.479492		
142.221	955	1021.366211		99.795	1111	1022.03418		
108.126	956	1020.642578		114.966	576	1020.376953		
626.026	957	1021.495117		108.178	577	1020.305664		
45.753	951	1021.570313		141.053	576	1019.009766		
195.471	953	1021.307617		1.597	571	1018.869141		
72.847	958	1021.545898		250.708	577	1020.292969		
170.961	956	1021.395508		3.561	576	1019.958008		
345.01	953	1021.488281		151.121	572	1019.803711		
501.314	952	1020.663086		176.6	1111	1022.107422		
17.72	959	1021.611328		0.94	576	1019.030273		
63.696	957	1020.786133		14.085	576	1019.490234		
372.042	952	1021.070313		161.635	576	1018.744141		
103.49	958	1021.263672		66.056	571	1018.831055		
313.383	950	1020.719727		119.141	576	1018.917969		
224.333	953	1021.65918		216.477	576	1019.713867		
312.94	959	1020.932617		9.215	577	1020.120117		
116.49	959	1021.716797		51.607	571	1019.057617		
243.239	953	1021.03125		71.911	576	1019.658203		
48.714	954	1020.870117		281.247	1111	1021.876953		
387.611	957	1020.644531		23.689	575	1018.947266		
395.964	954	1020.929688		195.335	572	1019.395508		
126.636	957	1021.68457		12.958	577	1019.667969		
44.322	952	1021.160156		191.673	576	1018.730469		
67.445	956	1021.225586		203.793	572	1019.810547		
621.339	952	1021.344727		188.989	576	1019.189453		
287.476	953	1021.060547		4.395	576	1018.865234		
500.415	957	1021.373047		122.403	1110	1021.795898		
19.522	953	1021.292969		90.816	572	1018.867188		
97.025	956	1021.584961		172.704	576	1019.799805		
13.358	957	1021.707031		167.571	577	1019.878906		
401.609	954	1021.209961		77.867	571	1018.703125		

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780.706	954	1021.700195		53.935	1111	1021.660156	
6.892	954	1021.085938		68.195	576	1019.455078	
257.833	958	1021.420898		137.692	572	1020.200195	
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14.212	958	1020.65918		20.201	576	1019.625	
485.366	956	1021.557617		121.175	1110	1022.073242	
120.46	957	1021.676758		69.002	571	1018.680664	
770.488	952	1020.870117		197.483	576	1018.893555	
104.352	955	1020.821289		46.332	576	1019.827148	
40.779	955	1021.569336		2934.369	571	1018.830078	
99.936	953	1021.654297		80.918	1111	1021.654297	
427.789	958	1021.703125		63.906	576	1019.183594	
169.902	952	1021.064453		48.415	576	1019.543945	
501.591	952	1021.203125		222.975	572	1020.03125	
228.941	952	1021.203125		77.927	576	1019.223633	
59.449	955	1021		244.05	576	1019.90625	
97.857	957	1021.165039		37.248	1110	1021.507813	
633.039	954	1021.665039		58.198	571	1019.49707	
50.872	952	1020.951172		38.763	576	1019.395508	
30.41	956	1020.790039		267.664	576	1019.369141	
761.164	956	1021.459961		114.148	572	1019.617188	
4.124	955	1020.856445		74.965	575	1018.707031	
159.518	953	1020.836914		25.277	1110	1021.871094	
224.072	957	1021.591797		182.692	576	1019.050781	
539.094	955	1021.541016		131.126	571	1019.136719	
466.585	956	1021.746094		119.234	576	1018.96582	
226.24	953	1021.356445		148.913	576	1019.597656	
69.394	956	1021.183594		127.871	1111	1021.962891	
329.687	952	1020.944336		97.634	571	1019.143555	
961.869	958	1021.714844		38.535	576	1018.979492	
56.989	957	1020.814453		816.994	576	1019.098633	
28.894	953	1021.120117		38.375	576	1018.885742	
70.459	952	1021.007813		224.546	1129	1021.780273	
708.017	956	1020.722656		8.891	1111	1021.93457	

34.316	957	1021.09082		39.392	571	1019.652344		
145.217	954	1021.625		91.054	577	1019.660156		
598.649	953	1020.763672		1.126	577	1020.249023		
425.987	955	1021.270508		419.713	575	1019.624023		
75.975	953	1021.335938		81.517	577	1020.026367		
186.182	958	1020.703125		45.564	1110	1021.452148		
389.605	956	1021.40918		30.117	572	1018.772461		
493.282	958	1021.420898		159.725	1130	1022.081055		
132.45	952	1020.847656		120.851	577	1020.368164		
59.43	953	1021.291016		72.478	576	1019.133789		
1120.927	957	1021.546875		218.025	1110	1021.525391		
145.737	953	1021.341797		67.112	577	1020.328125		
40.949	956	1021.300781		32.353	572	1019.625977		
95.067	956	1021.522461		193.604	576	1019.0625		
228.924	954	1021.271484		131.359	576	1018.827148		
297.493	958	1021.451172		40.959	1130	1021.898438		
372.593	954	1021.256836		152.678	1110	1022.12793		
1022.662	954	1020.600586		152.186	571	1018.722656		
19.322	957	1021.728516		13.657	576	1018.774414		
106.721	953	1021.469727		24.126	576	1020.373047		
262.221	958	1021.472656		835.226	576	1019.839844		
730.57	958	1021.161133		47.197	572	1019.397461		
82.838	952	1020.598633		29.571	1111	1021.469727		
188.031	956	1020.777344		123.448	1129	1021.49707		
431.822	953	1021.40332		45.973	576	1020.004883		
560.761	957	1021.44043		253.022	577	1019.430664		
84.182	953	1020.811523		152.897	572	1019.918945		
845.986	954	1021.010742		31.17	577	1019.973633		
13.928	959	1021.295898		75.973	1111	1021.925781		
177.325	952	1021.246094		113.037	576	1019.129883		
73.671	957	1021.768555		207.154	1130	1021.432617		
554.766	959	1021.217773		123.902	577	1019.959961		
311.818	951	1020.754883		24.776	576	1018.882813		
642.891	955	1021.487305		93.617	571	1018.791992		
53.998	956	1021.609375		32.055	1111	1021.852539		

336.146	953	1021.069336		228.904	576	1020.354492		
833.999	957	1021.520508		131.773	576	1019.22168		
103.623	957	1020.763672		224.682	577	1019.793945		
199.157	951	1021.798828		14.55	1110	1021.546875		
523.959	956	1021.459961		5.366	1131	1021.733398		
3.262	953	1021.06543		34.043	572	1020.24707		
699.369	953	1020.980469		734.915	576	1019.711914		
575.64	957	1021.124023		121.57	576	1019.874023		
638.367	954	1020.881836		137.391	572	1019.256836		
158.226	952	1021.595703		50.588	1111	1021.972656		
287.719	958	1021.805664		51.623	1130	1021.980469		
75.157	959	1021.269531		300.13	576	1019.0625		
513.875	957	1021.229492		73.826	577	1020.389648		
84.719	951	1021.033203		104.509	571	1018.975586		
977.124	953	1021.549805		61.544	1110	1021.318359		
310.998	952	1020.633789		160.499	1130	1022.192383		
105.76	955	1021.416992		261.021	576	1020.166016		
864.438	954	1021.202148		20.081	576	1019.200195		
421.782	953	1021.257813		152.574	1111	1022.132813		
5.519	955	1021.583008		18.585	571	1018.854492		
491.78	957	1021.742188		108.589	1130	1021.836914		
36.522	956	1021.542969		319.114	1129	1021.506836		
787.89	954	1021.541992		12.136	576	1018.605469		
146.534	957	1021.563477		35.583	576	1018.838867		
612.285	957	1020.896484		197.581	1110	1021.630859		
240.877	954	1021.100586		1.375	572	1019.958008		
285.246	955	1020.902344		12.674	1131	1021.991211		
674.225	958	1021.545898		854.848	576	1019.552734		
204.552	956	1020.958008		87.624	576	1018.603516		
461.706	954	1021.359375		70.056	1130	1021.822266		
69.097	952	1020.853516		99.878	1130	1021.670898		
46.294	955	1021.121094		20.787	1110	1021.299805		
1187.054	956	1020.810547		19.65	572	1020.095703		
99.907	954	1021.807617		301.702	576	1019.730469		
435.774	955	1021.604492		145.833	576	1019.542969		

727.863	958	1021.352539		104.153	1130	1021.374023		
97.913	952	1021.246094		73.467	571	1018.832031		
39.649	957	1021.603516		173.808	1111	1021.5625		
308.452	957	1021.260742		50.295	1130	1022.107422		
1480.073	953	1021.838867		60.947	577	1019.44043		
73.459	955	1021.710938		157.478	1129	1021.513672		
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407.285	953	1020.87207		59.488	572	1020.226563		
477.242	952	1021.197266		354.565	576	1019.395508		
500.628	957	1021.574219		77.591	1129	1021.760742		
268.647	958	1020.632813		100.507	572	1019.695313		
149.425	957	1021.107422		39.652	1130	1021.519531		
84.348	955	1020.820313		24.641	1110	1022.015625		
853.18	955	1021.601563		6.528	576	1019.807617		
266.807	952	1020.888672		908.521	1129	1021.464844		
443.489	953	1020.682617		4.536	576	1018.898438		
1453.105	955	1020.988281		160.034	572	1019.207031		
165.355	956	1021.678711		152.856	576	1019.048828		
22.366	954	1021.09375		27.971	1110	1021.338867		
447.621	957	1021.016602		161.663	1130	1021.308594		
544.474	952	1021.368164		15.605	1131	1021.996094		
183.51	956	1020.675781		88.581	576	1018.655273		
78.195	956	1021.337891		218.926	572	1019.672852		
972.033	952	1020.588867		156.277	576	1018.735352		
174.712	954	1021.620117		140.481	1129	1021.351563		
407.895	957	1021.128906		90.633	577	1020.203125		
1063.896	954	1021.133789		99.867	1111	1021.862305		
934.771	950	1021.045898		45.263	572	1019.426758		
174.207	958	1021.057617		34.595	1129	1022.049805		
49.63	956	1021.378906		248.663	576	1020.052734		
153.164	954	1021.47168		3.344	1130	1021.772461		
175.211	958	1021.669922		172.405	576	1019.487305		
807.972	957	1021.330078		81.576	572	1019.973633		
354.214	954	1021.382813		285.904	1129	1021.885742		
332.782	955	1021.326172		97.467	1130	1021.442383		

971.245	953	1021.15332		2.71	1110	1021.975586		
490.657	956	1020.985352		19.837	575	1018.920898		
78.378	958	1021.5		5664.563	576	1019.208984		
849.144	956	1021.143555		19.981	571	1019.438477		
198.199	955	1021.144531		266.052	1130	1021.345703		
165.571	957	1021.178711		140.487	1130	1021.916016		
4.012	953	1021.577148		123.379	577	1020.323242		
152.916	957	1021.262695		57.665	576	1018.777344		
233.554	957	1021.498047		89.577	572	1018.978516		
847.389	958	1021.725586		132.412	1111	1021.943359		
429.825	953	1021.481445		236.894	1130	1021.865234		
411.673	955	1020.960938		43.068	1130	1021.983398		
887.898	958	1020.708008		106.668	577	1020.466797		
5.91	953	1021.834961		12.764	577	1020.249023		
325.904	956	1020.614258		152.225	571	1019.869141		
302.142	953	1021.181641		223.57	1111	1021.391602		
171.741	957	1021.606445		235.597	576	1019.404297		
348.612	956	1021.464844		46.91	576	1018.706055		
65.872	957	1021.692383		61.4	1130	1021.298828		
355.335	957	1021.371094		32.986	1130	1022.057617		
633.373	953	1020.995117		79.802	571	1018.759766		
109.678	958	1021.00293		242.363	1111	1021.790039		
264.696	959	1021.722656		0.845	576	1019.103516		
382.791	953	1020.677734		145.197	576	1018.847656		
731.959	957	1021.075195		326.753	572	1020.098633		
184.846	953	1021.615234		94.133	1130	1021.71875		
719.201	958	1020.993164		15.232	576	1019.205078		
262.991	958	1021.071289		20.261	1130	1021.852539		
771.336	954	1021.134766		170.313	577	1020.091797		
81.127	958	1021.3125		103.765	1111	1021.583984		
68.898	957	1021.038086		129.171	576	1018.960938		
118.899	952	1021.663086		144.969	571	1019.108398		
468.669	957	1020.713867		235.937	577	1019.489258		
458.907	957	1020.902344		38.406	576	1019.134766		
182.491	955	1021.101563		26.691	1129	1021.37207		

530.689	954	1021.401367		35.942	1130	1021.729492		
449.971	957	1021.143555		171.907	1110	1021.420898		
900.214	953	1020.771484		171.349	571	1018.749023		
165.873	958	1020.97168		25.7	576	1018.888672		
26.643	958	1021.611328		140.843	576	1018.977539		
209.986	954	1021.695313		284.516	576	1020.014648		
1457.303	957	1021.313477		56.026	1129	1021.719727		
212.315	956	1021.621094		38.491	1129	1021.488281		
99.451	953	1021.168945		72.88	1110	1021.43457		
341.629	957	1021.706055		1232.868	572	1019.453125		
695.317	956	1021.499023		90.466	576	1019.754883		
34.573	956	1021.414063		99.201	576	1020.359375		
130.466	957	1021.671875		299.646	1111	1022.017578		
904.5	952	1021.107422		188.81	572	1019.628906		
166.405	956	1020.649414		23.081	577	1019.525391		
478.985	957	1021.526367		8.968	1130	1021.466797		
1159.087	955	1021.211914		27.375	576	1019.956055		
179.931	954	1021.451172		12.394	1129	1021.427734		
447.09	954	1021.675781		526.828	576	1018.740234		
491.713	958	1021.458984		35.022	1110	1021.929688		
954.946	955	1020.952148		21.496	576	1020.30957		
661.702	953	1020.990234		38.437	572	1019.368164		
122.019	957	1020.993164		57.643	1129	1021.419922		
724.891	957	1020.963867		170.674	1130	1021.957031		
671.138	956	1021.042969		213.674	576	1019.959961		
89.103	953	1020.821289		125.196	1111	1022.157227		
260.273	952	1021.714844		13.105	577	1020.301758		
268.307	957	1020.628906		107.238	571	1019.895508		
824.74	959	1020.856445		177.996	577	1019.680664		
1110.114	953	1021.150391		85.999	1131	1022.149414		
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966.362	957	1021.165039		82.007	577	1019.728516		
24.07	958	1020.856445		84.111	1110	1021.743164		
99.98	952	1020.987305		91.07	572	1019.976563		
707.077	952	1020.658203		69.182	576	1018.90625		

381.353	956	1021.756836		161.419	1130	1022.129883	
966.425	956	1021.308594		207.376	577	1019.969727	
745.277	957	1021.612305		95.435	1110	1021.341797	
347.147	954	1021.574219		103.492	1130	1021.331055	
945.947	951	1020.719727		47.241	571	1018.750977	
628.392	958	1021.119141		57.354	577	1020.303711	
284.296	956	1021.439453		203.708	1130	1021.842773	
490.759	952	1021.108398		107.382	576	1018.873047	
644.963	956	1021.132813		110.732	1111	1021.757813	
527.092	958	1021.561523		207.378	572	1020.433594	
322.511	951	1020.819336		44.644	577	1020.206055	
691.194	959	1021.567383		115.567	1130	1021.87793	
188.552	953	1021.644531		124.374	1130	1021.438477	
273.853	957	1021.307617		7.895	575	1019.232422	
531.321	956	1021.166992		113.263	1110	1021.728516	
185.426	956	1021.358398		475.72	571	1019.018555	
665.834	956	1021.329102		26.12	576	1019.814453	
600.701	952	1021.232422		190.288	576	1019.083008	
304.381	953	1021.774414		1.061	1130	1021.818359	
700.879	956	1021.230469		116.584	1111	1021.947266	
332.105	956	1020.723633		27.335	1129	1021.830078	
903.905	953	1020.577148		330.076	571	1018.665039	
296.685	957	1021.123047		12.361	576	1020.285156	
801.983	959	1021.696289		140.611	576	1019.49707	
618.523	958	1020.708008		131.743	1129	1021.90625	
605.714	953	1020.820313		68.82	1110	1021.597656	
217.075	957	1021.167969		215.048	1130	1021.477539	
40.315	953	1021.422852		119.354	576	1019.361328	
261.959	958	1021.260742		3.854	572	1019.545898	
1047.631	958	1021.415039		85.78	576	1018.672852	
285.108	956	1021.416016		227.978	1131	1021.985352	
618.908	954	1020.961914		7.711	1112	1022.078125	
812.129	954	1021.198242		331.493	576	1019.350586	
925.047	957	1021.550781		34.791	571	1019.291016	
25.707	954	1021.330078		15.929	576	1018.826172	

19.942	957	1021.296875		72.341	1130	1022.037109		
564.897	955	1021.597656		110.915	1131	1021.87207		
1438.137	957	1021.131836		74.992	1111	1021.59082		
170.35	957	1021.155273		438.801	576	1019.25293		
113.465	955	1021.698242		17.012	576	1019.558594		
648.205	953	1020.833984		40.13	572	1019.347656		
448.127	955	1021.274414		245.984	1130	1021.876953		
27.56	952	1021.392578		37.688	1109	1021.420898		
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637.374	954	1020.831055		264.665	576	1018.974609		
79.901	957	1020.935547		84.401	577	1020.048828		
385.929	957	1021.724609		42.815	572	1020.182617		
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423.28	953	1020.962891		21.238	1129	1021.610352		
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242.943	956	1020.939453		17.429	1130	1021.887695		
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105.669	956	1020.78125		50.745	572	1020.24707		
403.183	952	1021.634766		206.901	1111	1022.097656		
499.539	955	1021.283203		95.203	1130	1022.114258		
1485.041	958	1021.810547		115.182	576	1019.689453		
91.65	952	1020.883789		215.523	576	1020.249023		
291.81	955	1020.669922		58.038	572	1020.211914		
568.171	961	1021.271484		26.605	1129	1021.932617		
537.565	955	1020.798828		3053.632	1111	1022.205078		
1635.836	955	1020.696289		93.466	1129	1021.268555		
73.914	953	1020.958984		59.113	576	1018.825195		
797.446	956	1021.768555		129.589	572	1019.860352		
1.786	954	1021.607422		153.858	577	1020.333984		
266.511	957	1021.698242		300.573	1131	1021.889648		
713.15	957	1020.886719		37.238	577	1020.304688		
772.203	953	1020.880859		17.448	572	1019.928711		
1638.132	957	1021.731445		9.974	1129	1021.413086		
536.509	958	1021.166016		199.749	1111	1021.661133		
423.072	954	1021.790039		113.22	576	1019.168945		

163.312	957	1021.820313		115.812	571	1018.560547	
602.248	953	1020.947266		165.701	576	1019.902344	
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553.031	958	1021.394531		32.398	571	1018.797852	
505.879	957	1021.024414		130.206	576	1018.882813	
1304.598	954	1020.853516		205.147	1110	1021.349609	
280.89	952	1021.4375		16.296	576	1018.924805	
415.093	958	1021.867188		96.783	572	1019.740234	
658.875	957	1021.80957		115.842	1129	1021.640625	
197.615	955	1020.84668		1762.198	576	1020.217773	
1276.611	953	1021.272461		52.129	1130	1021.87793	
1056.134	956	1021.604492		19.732	572	1019.055664	
1305.703	956	1021.510742		87.609	576	1019.413086	
202.898	957	1021.829102		177.855	1130	1022.004883	
163.947	952	1020.96582		192.689	1111	1021.697266	
27.523	954	1021.467773		56.289	572	1020.446289	
1187.764	954	1020.78418		99.112	576	1020.46875	
1410.871	957	1021.676758		99.327	578	1020.290039	
695.937	956	1021.803711		169.308	1130	1021.522461	
452.953	957	1021.263672		60.594	1130	1021.381836	
823.559	955	1020.586914		62.004	571	1019.011719	
325.019	957	1021.543945		293.25	577	1020.420898	
227.914	953	1020.597656		41.469	577	1019.948242	
669.036	954	1021.505859		106.912	571	1019.182617	
1443.571	957	1021.492188		21.439	1110	1021.268555	
1090.734	953	1021.768555		199.138	1130	1021.727539	
612.236	954	1021.683594		119.247	1131	1022.001953	
617.869	958	1021		113.544	571	1018.615234	
5.083	957	1020.917969		69.412	577	1020.163086	
1113.146	955	1021.739258		14.318	576	1019.043945	
1520.288	958	1021.681641		360.245	572	1020.087891	
563.253	957	1021.225586		3540.245	1130	1021.30957	
0.652	955	1021.126953		93.502	1110	1021.458984	
362.482	952	1021.255859		122.927	577	1019.724609	

162.673	954	1021.740234		74.008	576	1019.151367		
71.795	957	1020.977539		16.008	1130	1022.060547		
2872.882	955	1021.744141		22.078	572	1020.188477		
99.476	953	1021.429688		316.206	1129	1021.423828		
1526.232	957	1021.048828		203.49	577	1020.027344		
414.451	956	1021.095703		11.178	571	1018.648438		
164.552	953	1021.801758		117.919	575	1018.72168		
501.611	953	1020.93457		129.969	1110	1021.650391		
1534.522	960	1021.522461		102.917	1130	1021.850586		
975.04	957	1021.571289		49.34	1129	1021.455078		
32.062	954	1021.012695		164.747	572	1020.213867		
724.646	956	1020.716797		48.483	576	1019.397461		
299.289	956	1021.092773		328.828	1130	1021.862305		
327.604	951	1021.629883		188.959	572	1019.643555		
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163.459	958	1021.165039		8.885	576	1019.199219		
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The summary of different threads/ connections for several write operations.
There are 24 segments of data, 8 each for product, marketplace and status. The example for single segment for each is provided below. All files are in separate attached files for reference.

Product file segment 5 [111MB]

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Marketplace file segment 6 [92.6 MB]

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  }
}
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Status data segment 5 [6MB]

[illegible]

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      1818,
      1958,
      1816,
      1939,
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