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| Методика оптимизации производительности витрин данных  на примере витрины данных Федеральной службы государственной регистрации, кадастра и картографии «Росреестр»  Листов 78 |

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# АННОТАЦИЯ

В данном документе приведена «Методика оптимизации производительности» для «Витрины данных НСУД» (далее – ВД), предназначенная для использования специалистами поставщиков данных, с целью улучшения производительности своей ВД. Данный документ может быть использован как полностью, так и в рамках отдельных рекомендаций на сопоставимые по конфигурации и составу ПО ВД.

# ОБЩИЕ СВЕДЕНИЯ

## Обозначение и наименование документа

Полное наименование: Методика оптимизации производительности витрин данных НСУД на примере витрины “Росреестр”.

## Назначение документа

Национальная система управления данными (далее – НСУД) представляет собой систему, состоящую из взаимосвязанных элементов информационно-технологического, организационного, методологического, кадрового и нормативно-правового характера и обеспечивающую достижение целей и выполнение задач, обозначенных в Концепции Национальной системы управления данными, утвержденной распоряжением Правительства Российской Федерации от 3 июня 2019 года № 1189-р.

НСУД предназначена для управления информацией, содержащейся в информационных системах органов и организаций государственного сектора, а также в информационных ресурсах, созданных в целях реализации полномочий органов и организаций государственного сектора (далее – государственные данные) и для осуществления информационного обмена между Поставщиками и Получателями данных, присоединившимися к НСУД (далее – Участники НСУД).

Управление процессами информационного обмена между Участниками НСУД осуществляется средствами федеральной государственной информационной системы «Единая информационная платформа Национальной системы управления данными» (далее – ФГИС «ЕИП НСУД»).

Для передачи данных между Участниками НСУД используется среда взаимодействия НСУД, состоящая из Системы межведомственного электронного взаимодействия 3.0 (далее – СМЭВ) и (или) подсистемы обеспечения доступа к данным СМЭВ (далее – ПОДД СМЭВ) (СМЭВ 4.0), обеспечивающих транспорт и процессинг данных, а также агентов ПОДД СМЭВ, устанавливаемых на стороне Участников НСУД.

Витрина данных является частью НСУД и предназначена для загрузки публикуемых данных в отдельную БД на стороне Поставщика данных. Витрина данных представляет собой комплекс программных и технических средств, использующий типовое программное обеспечение, , устанавливаемое на стороне поставщиков или потребителей данных.

Методика оптимизации направлена на подробный обзор ключевых компонентов витрины данных НСУД и конфигурирование их наилучшим образом для увеличения производительности (количество обращений в секунду – далее rps) и уменьшения времени обработки данных (измеряется в секундах и миллисекундах – далее S и ms соответственно), все рекомендации основаны на экспертной оценке специалистов компании “Датамарт” и подтверждаются серией испытаний описанных в данном документе для ознакомительных и учебных целей.

Документ покажет клиентский путь технической команды, обеспечивающей настройку ВД.

# СОСТАВ ВИТРИНЫ РОСРЕЕСТР

В данном документе будет рассматриваться ВД ведомства Росреестр, полное название: Подсистема «Витрина данных ЕГРН», компонента «Предоставление сведений в НСУД».

Задача данной витрины: оперативное получение актуальной информации о картографических объектах и объектах недвижимости на территории РФ.

Количество записей в реестре – 5,2 млрд.

Интенсивность запросов: 2 млн записей/час

Подключение (СМЭВ-3 или ПОДД): ПОДД

Объем изначальных данных 340 ГБ = 1.000.000.000 записей

## Общая архитектурная схема

Рассмотрим внутреннюю архитектуру витрины данных Росреестр.

Схематичное отображение общей архитектуры решения приведено на рисунке 1.

Diagram

Description automatically generated

Рисунок 1 – Общая схема витрины данных

## Описание клиентского пути использования технологических функций компонентов витрины данных

Программное обеспечение (далее – ПО) используемое в данном варианте витрины данных имеет несколько категорий: основные компоненты, дополнительное ПО.

## Основные компоненты

* **ProStore** — основной компонент программы с открытым исходным кодом, обеспечивает единый интерфейс к хранилищу разнородных данных. Определяет структуры данных, запись и чтение данных Витрины. Позволяет работать со входящими в состав хранилища СУБД одинаковым образом, используя единый синтаксис запросов SQL и единую логическую схему данных. ProStore включает следующие компоненты:
  1. сервис исполнения запросов (query-execution) — анализирует и исполняет SQL-запросы; предоставляет REST API для JDBC-драйвера и взаимодействует с сервисом мониторинга статусов Kafka по REST API. В свою очередь состоит из следующих компонентов:
  2. коннектор Kafka-Greenplum reader - считывает данные из Greenplum и передает их в брокер сообщений Kafka.
  3. коннектор Kafka-Greenplum writer - записывает данные из брокера сообщений Kafka в Greenplum.
  4. сервис мониторинга статусов Kafka (status-monitor) — отслеживает состояние топиков брокера сообщений Kafka; предоставляет REST API для сервиса исполнения запросов.
  5. Arenadata Greenplum (ADB) — аналитическая, распределённая СУБД, построенная на MPP-системе с открытым исходным кодом Greenplum. Она предназначена для хранения и обработки больших объёмов информации — до десятков петабайт. База данных ProStore.
  6. Apache ZooKeeper — необходим для поддержки информации о конфигурации и распределенной координации между компонентами Витрины, также используется как сервисная база данных ProStore, для хранения технической информации (метаданных) от поступающих в Витрину данных запросах.
  7. брокер *сообщений Kafka* - , используется для непрерывной передачи сообщений между ПОДД-адаптером и Агентом ПОДД.
* **ПОДД-адаптер** (podd-adapter) — модуль программы, который обеспечивает подключение к ПОДД СМЭВ, как информационной системы участника взаимодействия. Обеспечивает загрузку запросов из очереди ИС УВ в ПОДД СМЭВ, формирование и отправку ответов в ПОДД СМЭВ, инициативное формирование уведомлений об изменении данных в экземпляре ПО «Витрина данных НСУД», отправку уведомлений в ПОДД СМЭВ, регистрацию реплики данных ИС УВ, подписки на репликацию и поддержку реплики в актуальном состоянии.
* **ПОДД-агент** (podd-agent) — компонент ПОДД СМЭВ, устанавливаемый в контуре участника взаимодействия.

## Дополнительное программное обеспечение

* **Prometheus** — используется как система мониторинга системных ресурсов «Витрина данных. Связь компонентов реализована через HTTP. Данные хранятся локально, в собственной TSBD базе, индексы хранятся в LevelDB. Метрики представляют собой time-series данные. Каждая метрика состоит из имени метрики, временной метки и пары «ключ – значение». Визуализация осуществляется через подключение к Grafana. Официальный сайт разработчика приложения: <https://prometheus.io/>.
* **Grafana** — инструмент реализован в виде панели управления и мониторинга и позволяет визуализировать системные события программы на базе собираемых метрик. Официальный сайт разработчика приложения: <https://grafana.com/docs/>
* **Graylog** — программное обеспечение для управления лог-файлами. Официальный сайт разработчика приложения: <https://www.graylog.org/>
* **МongoDB** — база данных Graylog. Официальный сайт разработчика приложения: <https://www.mongodb.com/>
* **Elasticsearch** — утилита полнотекстового поиска и аналитики, которая позволяет быстро в режиме реального времени хранить, искать и анализировать большие объемы данных и сохраняет их для Graylog. Для передачи сообщений в Graylog использует Filebeat. Официальный сайт разработчика приложения: <https://www.elastic.co/elasticsearch/>
* **Filebeat** — агент на сервере для отправки различных типов оперативных данных в Elasticsearch. Официальный сайт разработчика приложения: <https://www.elastic.co/elasticsearch/>
* **Node\_exporter** — процессы, обеспечивающие сбор и передачу системных метрик серверу Prometheus. Также, используется для сбора метрик ПОДД-адаптера и CSV-uploader см. <https://github.com/prometheus/node_exporter>.

## Версии ключевых компонентов

Версии ключевых компонентов приведены в таблице 1.

Таблица 1 ‑ Версии ключевых компонентов витрины

|  |  |
| --- | --- |
| **Название ПО** | **Версия ПО** |
| query-execution | 5.2.2 |
| status-monitor | 5.2.2 |
| podd-agent | 2.2.1 |
| podd-adapter | 4.2.4, 5.1.0 |
| Arenadata Greenplum (ADB) | 6.16 |

## Технический состав ВД Росреестр

ВД Росреестр была размещена на среде виртуализации VMware ESXi 6.7, использовались стандартные SAS server диски 7200 об/мин, система хранения данных в данном материале рассматриваться не будет.

Описание созданных виртуальных серверов указано в таблице 2.

Таблица 2 ‑ Инфраструктура витрины Росреестр

| **Название** | **Модель процессора** | **Количество ядер** | **Количество памяти** |
| --- | --- | --- | --- |
| gpmaster | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 24 | Mem: 38 Gb |
| gpseg-1 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 24 | Mem: 72 Gb |
| gpseg-2 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 24 | Mem: 72 Gb |
| gpseg-3 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 24 | Mem: 72 Gb |
| gpseg-4 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 24 | Mem: 72 Gb |
| core | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 48 | Mem: 86 Gb |
| podd adapter | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 12 | Mem: 46 Gb |
| podd agent | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 14 | Mem: 32 Gb |
| adsk-01 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 6 | Mem: 32 Gb |
| adsk-02 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 6 | Mem: 32 Gb |
| adsk-03 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 6 | Mem: 32 Gb |

## Описание сетевой инфраструктуры

Витрина размещена на виртуальной инфраструктуре ведомства, были созданы максимально возможные условия для снижения влияния сети на пропускную способность, для этого были обеспечено:

* пропускная способность 100 Гбит/сек;
* отсутствие ПО, блокирующего или замедляющего трафик.

Канал связи, используемый для взаимодействия с потребителем данных:

* пропускная способность 10 Гбит/сек.

Необходимо учитывать процент свободных ресурсов оборудования и пиковые нагрузки для того что бы сеть и её пропускная способность не стали бутылочным горлышком производительности.

# ОЦЕНКА ПРОИЗВОДИТЕЛЬНОСТИ ВИТРИНЫ

Для измерения производительности витрины используется ряд программных средств и методик.

## Инструменты проверки производительности

Для фиксации изменений в производительности системы после корректировки настроечных параметров ее компонентов, будут использованы следующие инструменты:

* **Apache Jmeter** – ПО для создания и генерации нагрузки имитирующей запросы пользователей витрины данных. <https://jmeter.apache.org/>
* **Redis** – брокер сообщений для загрузки в него данных используемых Apache Jmeter при имитации нагрузки. <https://redis.io/>
* **Telegraf** – агент мониторинга. <https://www.influxdata.com/>
* **Influxdb** – СУБД для хранения данных мониторинга. <https://www.influxdata.com/>

## Ключевые параметры

Ключевыми параметрами измерения производительности является количество обрабатываемых системой запросов в секунду времени (RPS, throughput) и скорость обработки одного запроса в миллисекундах или секундах (ms или S).

Поставлена задача для рабочей группы достичь показателей 300 RPS с использованием сети ПОДД со скоростью ответа до 0,3с для 95% запросов, внутри контура информационной системы (ИС).

## Методика измерения производительности

В данном разделе описан клиентский путь использования технологических функций компонентов витрины данных, оказывающих значимое влияние на производительность витрины.

Измерение ключевых параметров витрины необходимо производить следующим образом:

* определяется типовой запрос или несколько типовых запросов для витрины данных;
* производится настройка Apache Jmeter, подготавливается скрипт который содержит типовой запрос с переменными данными, сами переменные данные загружаются (либо генерируются при их отсутствии) в базу Redis, объем данных должен обеспечивать от 100 тысяч уникальных записей и более, из соображений 300 запросов, умноженных на 60 секунд в минуте и длительностью теста около 5 минут. Пример скрипта для Jmeter приведён в приложении А;
* производится настройка ifluxDB и jmeter для сбора данных, более подробно описано в документации для jmeter (доступно по ссылке <https://jmeter.apache.org/usermanual/realtime-results.html>);
* в мониторинге Grafana настраиваются специализированные представления (дашборды) со счетчиками параметров, измеряемых jmeter. Ссылки для скачивания дашбордов Grafana и пример файла с настройками используемых в настоящей Методике дашбордов приведены в приложении Б;
* в специально отведенное для тестирования время, без продуктивной нагрузки на витрину, производится запуск тестового скрипта в jmeter в течении минимум 5 минут;
* по окончании теста результаты фиксируются.

### Описание дашборда для измерения производительности витрины

* количество запросов в секунду;

Отображает график количества запросов в секунду. Индикативно отображаются метрики минимального, максимального и среднего значения в интервале 5 минут, рисунок 2.

Chart

Description automatically generated

Рисунок 2 – Количество запросов в секунду

* количество ошибок в секунду;

Отображает количество ошибок в интервале 5 минут, рисунок 3.

Chart

Description automatically generated

Рисунок 3 – Количество ошибок в секунду

* количество активных потоков в секунду;

Отображает количество активных потоков в секунду в интервале 5 минут, рисунок 4.

Chart

Description automatically generated

Рисунок 4 – Количество активных потоков в секунду

* скорость ответа на запросы, 95-й перцентиль;

Отображает график скорости ответа на запросы в миллисекундах в интервале 5 минут. Индикативно отображаются метрики максимальных и средних значений в интервале 5 минут, рисунок 5.

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 5 – Скорость ответа на запросы, 95-й перцентиль

* количество переданного трафика.

Отображает количество трафика в КБ в интервале 5 минут, переданного через интернет. Индикативно отображаются метрики максимальных и средних значений в интервале 5 минут, рисунок 6.

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 6 – Количество переданного трафика

Зафиксированные результаты анализируются и формируют сводный отчет производительности, который наглядно отображает изменение производительности на протяжении серии тестирований. Для примера приведена структура накопительного отчёта о тестировании производительности витрины Росреестр, рисунок 7.

Table

Description automatically generated

Рисунок 7 – Сводный отчёт о тестировании производительности для отображения результатов изменения настроек в компонентах витрины

# ПРОИЗВОДИТЕЛЬНОСТЬ СУБД

В данном разделе будет рассмотрен тюнинг СУБД, начальные данные по конфигурации СУБД, а также этапы проверки производительности СУБД на примере Arenadata Greenplum (ADB).

## Стартовая конфигурация СУБД ADB

Стартовая конфигурация СУБД ADB была организована по рекомендациям, полученным на основании технического задания. Был развернут мастер ADB и 4 сегмент хоста, на каждом из сегмент хостов размещается по 4 сегмента, в сумме получается 16 сегментов СУБД ADB. Данная конфигурация является стандартным решением при учете большой аналитической нагрузки на СУБД ADB, а именно, получение сложных запросов с целью построения BI отчетов.

## Первые измерения СУБД ADB

До проверки производительности СУБД ADB необходимо убедиться в том, что все сегменты СУБД ADB работают корректно. Проверить статус сегментов можно командой gpstate (ссылка на официальный источник: [https://gpdb.docs.pivotal.io/6-8/utility\_guide/ref/gpstate.html#topic1](https://gpdb.docs.pivotal.io/6-8/utility_guide/ref/gpstate.html" \l "topic1)).

После проверки статуса сегментов можно приступить к проверке производительности СУБД ADB простым запросом, длительность проверки не менее 5 минут:

select 1

from table

Результаты обработки простого запроса приведены на рисунке 8, производительность составила 3000 – 3500 RPS при средней скорости обработки запроса 130 ms.

Graphical user interface

Description automatically generated

Рисунок 8 – Тестирование простым запросом SELECT 1

Подключение через jdbc драйвер к СУБД ADB возможно с помощью одного из следующих драйверов:

* postgresql-42.2.5.jar;
* postgresql-42.3.2.jar;
* PROGRESS\_DATADIRECT\_JDBC\_DRIVER\_PIVOTAL\_GREENPLUM\_5\_1\_4\_000275.jar.

В рамках проверки производительности осуществлялась проверка с использованием каждого из перечисленных выше драйверов. Проверки производительности с первым и вторым драйверами показывали отставание в 10% и 15% соответственно от результатов проверки производительности с третьим драйвером. В итоге был выбран рекомендуемый производителем третий драйвер последней версии, доступной на момент проведения проверки производительности СУБД ADB.

## Производительность СУБД ADB

После измерений базовых значений СУБД ADB и выбора оптимального jdbc-драйвера для корректности получаемых результатов, были проведены проверки производительности СУБД ADB (см. приложение А), для начала измерений производительности СУБД ADB был выбран простой запрос:

SELECT

xxx

FROM

zzz.rightholderindividual AS rhi

JOIN zzz.RightInfo AS ri on ri.RecordNumber = rhi.RecordNumber

JOIN zzz.PropertyInfo AS pf on pf.CadNumber = ri.CadNumber

WHERE

rhi.SNILS = ХХХ-ХХХ-ХХХ YY

limit 1

Первая проверка производительности СУБД ADB проводилась на параметрах по умолчанию. Проверка показала, что нагрузка на СУБД ADB в базовой конфигурации не позволит достичь необходимой производительности 300 RPS с использованием сети ПОДД со скоростью ответа до 0,3с для 95% запросов. Результаты проверки на параметрах по умолчанию представлены на рисунке 9 и рисунке 10.

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4THYRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjIwIDAwOjEzOjIwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMzMQAAkpIAAgAAAAMzMQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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MssjRfbHWEs3lhcN2NcD4z8I+OL4afc6bo2pXCf2ZbWly011bWt9EJLqW4vCVs7u2jLfubZf3cwXEgIJIIr2v+2dZ/6E2X/wADYP8A47TW1jWW+X/hEJ1B/wCn2HGO44mGDUMafc+YPBfhn4o68mo6Vqia/da3pyW+nJfWnimSHTtLuhcXF2WmQ3TSzskFzZxglrjOzB4WtzxF4H+Lt1f63c2B1caVeao1w1rdagZL6ZGEpCJHHqkEEcKs6MHSSFzyDENoZvoX+2tZBJ/4RCeRm5LNfQkntyTLnpij+2tZP/Mmy/8AgbB/8dpDcux4BqPwq+IGsSaVomvDWvEMMN3pIOtRa39lso7GJoXukntmupJZZ2ZZ1JzKCpj/AHhwQOs+LXgXX/EvxMg1jTdO1K4ePSo7Ky1Gy1QWkNsZr9Te+ZGJYyxMCRYJQkgNycYHqf8AbOs/9CbL/wCBsH/x2j+2dZ/6E2X/AMDYP/jtBN2eI6b8J/HHnWeoy6p4ge6aOxvJopPEc5ia6k1N55UKNLgJBBtG0qQ3mMv8NanwF8HfErTPEs+q+OtSupSbFrK6t5S/k3lw00LNcRgajcooVYpNpEUB/efdHBPrX9s6z/0Jsv8A4Gwf/HaP7a1kf8ybL/4Gwf8Ax2kF2fOPxU1LWPBsc4vPtz6jrGqeIJorLTtZTTru/vTNEmltErSq88aWgYFE3EMinuK3r74ZeMtI8L34tzrfiDUbi+s7ExvrtwTDp0FnbRmSNFvrYeY8sDuwMqtulc85r3Jda1s7gPCEo3DADX0OB7j97wfcc0h1rWsAHwhNIAMBmvof6yk0Bdnz94b+FXxPuvCd2fEmpasNditYINOhtNenjghuDqVzJ9pcC5cyNFC9uMSSSFgMbiFGNC58J/EbxJ4d03QL3SNRtIVtr611O8u9Wt2+2SXN9AHkVUeQeUIpJ5lDnIMe3aOCfcP7Z1n/AKE2X/wNg/8AjtH9s6z/ANCbL/4Gwf8Ax2gLs+drH4c/FvxH4mvZtS/tLw9pGqKI72O112UTRl9QtJG8k/2hKqpHbpcIpRYs7z+7GdzbeueA7jS/EWj6z4ruNW03w3p19rF0NRbxO0SaMvlW1tYSvI1whdTFFMxQFsPM3HNe3f2zrP8A0Jsv/gbB/wDHaT+2NYVtw8HzjcNr7b6Dp2BHnfMDk8YoC7POfhDD4z1LRvDfiHW5r6G8vzHctDFdL5MUEVq8UMcySfM4laQzM/L5KgnAFbE+l6ldfHbT9RPhq+XRbHQbjT4dbaWzFuZJpbeTaIxJ9oAUQY+ZOprrhrGtdT4PlYnv9sgB/wDRxpf7Z1n/AKE2X/wNg/8AjtNBdnjvxZ8L/FHV/HGs6h4NN5axfYY47Sa51LEAIOWMEEd3CHlZXZSs4iUBEImJyqZ/hv4c+PYI9Ms9ebxBqGh3lxdTy2djrBsptPbbbrB57m9neVB5c77I53XdIK9y/tnWf+hNl/8AA2D/AOO0f2zrP/Qmy/8AgbB/8dqguzE+Guk3trH4m1e/hktJ/EGtS6itnKxLQRLFDbRBs8hmjtkkIPeQ12RGDxWR/bOs/wDQmy/+BsH/AMdo/tnWf+hNl/8AA2D/AOO00w1Naisn+2NZ/wChOl/8DYP/AI7R/bGs/wDQnS/+BsH/AMdqrhZmtRWT/bGs/wDQnS/+BsH/AMdo/tjWf+hOl/8AA2D/AOO0XCzNaisn+2NZ/wChOl/8DYP/AI7R/bGs/wDQnS/+BsH/AMdouFma1FZP9saz/wBCdL/4Gwf/AB2j+2NZ/wChOl/8DYP/AI7RcLM1qKyf7Y1n/oTpf/A2D/47R/bGs/8AQnS/+BsH/wAdouFma1FZP9saz/0J0v8A4Gwf/HaP7Y1n/oTpf/A2D/47RcLM1qKyf7Y1n/oTpf8AwNg/+O0f2xrP/QnS/wDgbB/8douFma1FZP8AbGs/9CdL/wCBsH/x2j+2NZ/6E6X/AMDYP/jtFwszWorJ/tjWf+hOl/8AA2D/AOO0f2xrP/QnS/8AgbB/8douFma1FZP9saz/ANCdL/4Gwf8Ax2j+2NZ/6E6X/wADYP8A47RcLM1qKyf7Y1n/AKE6X/wNg/8AjtH9saz/ANCdL/4Gwf8Ax2i4WZrUVk/2xrP/AEJ0v/gbB/8AHaP7Y1n/AKE6X/wNg/8AjtFwszWorJ/tjWf+hOl/8DYP/jtH9saz/wBCdL/4Gwf/AB2i4WZrUVk/2xrP/QnS/wDgbB/8dpP7a1j/AKE6X/wNg/8AjtFw1IviHx8NfFuf+gdL/wCgNXUR/wDIQT/ruf8A0MVxHiqfXdb8LavpkXhWa3a9tJoRJ9sgYKfLbHAcnkkCu53ZvEY8Evk8+jgfyA/OsJ7Fw+JktFFFYG5W84/884f+/Kf4Uecf+ecP/flP8KKKoA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hR5x/55w/9+U/woooAPOP/ADzh/wC/Kf4Uecf+ecP/AH5T/CiigA84/wDPOH/vyn+FHnH/AJ5w/wDflP8ACiigA84/884f+/Kf4Uecf+ecP/flP8KKKADzj/zzh/78p/hSrMf+ecP/AH5T/CiigQ5Zv+mcP/fpf8KT7Q6yfKEXgfdjUdx7UUU0SzH+2Tf3v/HRRRRTJP/Z)

Рисунок 9 – Количество запросов без оптимизации

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 10 – Скорость запроса с параметрами СУБД по умолчанию

Для следующей итерации проверки производительности, на СУБД ADB изменили конфигурацию с 4-х сегментов до 1 сегмента и 1 зеркала, увеличили CPU на мастере в соответствии с таблицей 3.

Таблица 3 – Изменение конфигурации СУБД ADB

|  |  |  |  |
| --- | --- | --- | --- |
| **Название** | **Модель процессора** | **Количество ядер** | **Количество памяти** |
| gpmaster | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 48 | Mem: 38 Gb |
| gpseg-1 | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 48 | Mem: 188 Gb |
| gpseg-mirror | Intel(R) Xeon(R) Platinum 8164 CPU @ 2.00GHz | CPU(s): 48 | Mem: 188 Gb |

После изменения конфигурации СУБД ADB проверка показала улучшение результата выполнения на примере первоначального простого запроса:

SELECT

xxx

FROM

zzz.rightholderindividual AS rhi

JOIN zzz.RightInfo AS ri on ri.RecordNumber = rhi.RecordNumber

JOIN zzz.PropertyInfo AS pf on pf.CadNumber = ri.CadNumber

WHERE

rhi.SNILS = ХХХ-ХХХ-ХХХ YY

limit 1

Результаты измерения производительности СУБД ADB после изменения конфигурации показаны на рисунке 11 и рисунке 12.

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S6ERXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjIwIDAwOjQwOjA4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMxMQAAkpIAAgAAAAMxMQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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8AtzV/+hQk/wDA6D/47R/bmr/9ChJ/4HQf/HaLoLM2KKx/7c1f/oUJP/A6D/47R/bmr/8AQoSf+B0H/wAdougszYorH/tzV/8AoUJP/A6D/wCO0f25q/8A0KEn/gdB/wDHaLoLM2KKx/7c1f8A6FCT/wADoP8A47R/bmr/APQnyf8AgdB/8dpXQal/Vbi6s9JvZ7K1a+vI4JGgtA4Xz5AhKr8xCr0xluMkV88eFfh/4x0T4XeHtLj0bX5tY0+8triW31+TSlLSW9vJOmySxkXdGblQA0kofLDIA2k+8f25q/8A0J8n/gdB/wDHaP7c1f8A6E+T/wADoP8A47UNoabPlrTvDfxP0zxdYaXrmn+Ib3RruSPUBoWleJJYbt0gtrlbotPLqU5VWmu7b5UmTcsRxGNpZuq1n4efFxRpCaRqN9Le2Oiy232271VjZqzPM4MYS5SSacK6Q5uFkiIhjZWQszH3wa5rG6Pb4SkiYHAkF/BlQWQkf6zoQvP0pP7f1dgCfB8n/gdD/WWldDuzwDT/AAT8TrHTYP7Rt/EOtWFxLcXD6LZ6stldWtyscS2rGaXUbgiIsblmWO4YD5DsGcV1t/8AC3VF+DPw28I3mnX+sJp93p0uuW1jqphuSY1aWWT7R58XmMbpYmJ3E4Zz9PUv7c1f/oT5P/A6D/47R/bmr/8AQnyf+B0H/wAdp3JuzxLQvhZ4+1WbRrzXtT8RWtwl7YrPDb+JJY1ggFvPc3jhY7jZI8lzP9ny2TsjQ5wBVDwt8Ofi/H4r8Of2pq95b6bp6aayTJcyXAit44oWuraZv7Sj82R5RcJv+zv8uw7jnavvn9uav/0J8n/gdB/8do/tzV/+hPk/8DoP/jtINTyr43pfaPq2v6+86WFha6Jp1nZ3z3sNmkAk1BxqirPKyLBM1sLcJIzc7WAJINc18N/CfivxFp48TxP4h/s1IdXv9H0jUPEs5D3HmQQ2MUrLKGeLy7USABwmZmIPzE170Ne1lW+XwjKFPDgahCoI9x5vzfTFH9tauvH/AAiEhHb/AE6D/wCO0rhqeBeAfhh8Tb7xIF8S3Gs6V4alvrS6a2tteuI5hsgvTOm9tRu2CvJJbKNjRLhchQQSdPw74Z+KGl2L6Zd2erXs17c6V5GpNrkTw6dYpeGeeJjJMZjOscssJYBgyiPn5cD2r+3NX/6E+T/wOg/+O0f25q//AEJ8n/gdB/8AHaA1PneHwJ8XIdS8N/YdMn0yO2ntLyeSDWJBCyyXBu7uN1TUIk80PLLH81tKpVY/nJJVdLV/gz4svPAraTcJr2uRXOj2cWo2M3iGTffzzX0Ul/GsnnKIWjtbVAhQBSZ3A53V7t/bmr/9CfJ/4HQf/Haa2tau3zDwlLG4xtK38I+vImGMUBqeR+FY9V8Sat4o/wCEd1bUb7wpo8httLu7DVUnuTczW0McuJmkdXFojSEAH55JWAGUNdl8Y9N1bVbPwxY2Hhi98QRx6/p19czW09mhtY7e5SR3JnlQuSRnCg966/8At/VwuP8AhEZCBwB9ttwAPYeb+P1Jpn9u6v8A9CfJ/wCB0H/x2mguzivjTonirxAnh6Hw2moOqXQkuTb332WDYVxtuglxDIyKrsQIvPG5eY+58w0TwH8ZYF1a/wBWvtTmuiq29xZWd8sf21Hu4ZZTbPJfTRoFhjkRSIrUjf6nJ+hP7c1f/oT5P/A6D/47R/bmr/8AQnyf+B0H/wAdqroNTjvBfhe7h8cW14bHUNO0vRdEn0y3TVb1ru5mku545pA8zSOZBFHBbgNvb5mkUH5cV6UzbmLddxL56Zyc9O2M4/Csb+3NX/6E+T/wOg/+O0f25q//AEJ8n/gdB/8AHaaaDU2KKx/7c1f/AKFCT/wOg/8AjtH9uav/ANChJ/4HQf8Ax2qugszYorH/ALc1f/oUJP8AwOg/+O0f25q//QoSf+B0H/x2i6CzNiisf+3NX/6FCT/wOg/+O0f25q//AEKEn/gdB/8AHaLoLM2KKx/7c1f/AKFCT/wOg/8AjtH9uav/ANChJ/4HQf8Ax2i6CzNiisf+3NX/AOhQk/8AA6D/AOO0f25q/wD0KEn/AIHQf/HaLoLM2KKx/wC3NX/6FCT/AMDoP/jtH9uav/0KEn/gdB/8dougszYorH/tzV/+hQk/8DoP/jtH9uav/wBChJ/4HQf/AB2i6CzNiisf+3NX/wChQk/8DoP/AI7R/bmr/wDQoSf+B0H/AMdougszYorH/tzV/wDoUJP/AAOg/wDjtH9uav8A9ChJ/wCB0H/x2i6CzNiisf8AtzV/+hQk/wDA6D/47R/bmr/9ChJ/4HQf/HaLoLM2KKx/7c1f/oUJP/A6D/47R/bmr/8AQoSf+B0H/wAdougszYorH/tzV/8AoUJP/A6D/wCO0f25q/8A0KEn/gdB/wDHaLoLM2KKx/7c1f8A6FCT/wADoP8A47R/bmr/APQoSf8AgdB/8dougszYorH/ALc1f/oUJP8AwOg/+O0f25q//QoSf+B0H/x2ldBZnQWH/H3Ce27Fc34AUr4YQEEH7bff+lk1SDxBrUOZI/CUiOuCCbyBv082pfBtjcaX4fjt7uLyLj7RdSsuVP8ArLiSTPysR/H61jN6Fw3OsVV9B+VIyr/dH5UUVh0OoTav90flRtX+6PyoopAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUAG1f7o/Kjav8AdH5UUUAG1f7o/Kjav90flRRQAbV/uj8qNq/3R+VFFABtX+6Pyo2r/dH5UUUmZ9T/2Q==)

Рисунок 11 – Количество запросов после изменения конфигурации СУБД ADB

Graphical user interface, chart

Description automatically generated  
Рисунок 12 – Скорость запроса после изменения конфигурации СУБД ADB

Сравнение результатов до и после изменения конфигурации СУБД ADB приведены в таблице 4.

Таблица 4 – Сравнение конфигураций СУБД ADB с разным количеством сегментов

|  |  |  |
| --- | --- | --- |
| **Результаты** | **Количество запросов в секунду (среднее)** | **Скорость ответа на запросы** |
| Конфигурация с  4 сегментами | 190 | 199 ms |
| Конфигурация с  1 сегментом | 420 | 30 ms |

После изменения количества сегментов в конфигурации СУБД ADB удалось достичь производительности в размере стабильных 400 rps на простом запросе.

## Подробное рассмотрение выбора оптимизатора запросов

В СУБД ADB есть возможность использования двух оптимизаторов запросов. Рассмотрим, как работает оптимизатор запросов.

При выборке данных из базы движок СУБД ADB пытается наилучшим (наиболее быстрым, менее затратным) образом использовать ресурсы. Эту работу выполняет оптимизатор запросов. Задача оптимизатора – это рассмотрение наилучшей стратегии обработки данных. В качестве результата оптимизатор выдает «План выполнения запроса». При выборе стратегии оптимизатор учитывает очень много факторов – это индексы, условия в запросе и, так называемую, статистику или, как ее еще называют, статистические данные, содержащую такую информацию как диаграмма состояния таблиц.

В общем виде процедура оптимизации запросов состоит из нескольких этапов:

* синтаксический разбор запроса. На этом этапе проверяется правильность написания запроса. Если запрос написан правильно, то строится дерево на основании текста запроса. Затем проверяется наличие объектов, к которым обращается запрос. После этого, строится окончательное дерево с идентификаторами объектов.
* компиляция запроса. Дерево компилируется и передается на следующий этап.
* оптимизация запроса. Оптимизатор анализирует входящее дерево, ищет аргументы поиска и критерии соединения. Затем решает, какие индексы использовать, какой будет порядок соединения таблиц, и выбирает наилучшую стратегию.
* исполнение запроса. Сохранение плана запроса и его исполнение.

Выполнение запросов в СУБД ADB с использованием оптимизатора запросов проходит через несколько этапов:

* анализ запроса;
* выбор индексов;
* выбор порядка выполнения операций соединения;
* выбор метода выполнения операций соединения.

Анализ запроса.

Это первый этап выполнения запроса, на котором определяются:

* аргументы поиска;
* операторы OR (ИЛИ);
* критерии соединения.

В нашем случае нагрузка на СУБД ADB была в основном транзакционного характера, так как для Единого портала Госуслуг (ЕПГУ) были предусмотрены в основном небольшие пользовательские запросы характера предоставления ограниченного количества видов сведений, несколько видов запросов указаны в скрипте для jmeter в приложении Б.

Как говорилось ранее, СУБД ADB позволяет выбрать из двух оптимизаторов запроса, это классический оптимизатор GPORCA (подробное описание его работы доступно по ссылке https://wiki.postgresql.org/images/c/cf/South\_Bay\_PG\_Meetup\_2016-03-08\_Orca.pdf). Второй оптимизатор GP специально написан для Greenplum (подробнее: https://greenplum.docs.pivotal.io/6-20/admin\_guide/query/topics/query-piv-optimizer.html). У каждого из оптимизаторов есть свои преимущества и недостатки, нас же интересует определение наилучшего в нашей ситуации. Для того чтобы проверить, какой из оптимизаторов подходит, был проведён ряд замеров скорости обработки запросов.

Сначала рассмотрим обработку простого запроса с оптимизатором GP:

SELECT

xxx

FROM

zzz.rightholderindividual AS rhi

JOIN zzz.RightInfo AS ri on ri.RecordNumber = rhi.RecordNumber

JOIN zzz.PropertyInfo AS pf on pf.CadNumber = ri.CadNumber

WHERE

rhi.SNILS = ХХХ-ХХХ-ХХХ YY

limit 1

Показатели производительности СУБД ADB при максимальном тюнинге достигают значений 280 – 320 RPS. Результаты измерения производительности СУБД ADB с использованием оптимизатора запросов GP показаны на рисунке 14 и рисунке 15.

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TI+RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjE5IDIyOjQ3OjAwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM1MgAAkpIAAgAAAAM1MgAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMToxMjoxNSAwOTo1MzozOAAyMDIxOjEyOjE1IDA5OjUzOjM4AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAIJEAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAxgEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9WkuNVjv5gEi+zj/AFeWXJ5HuD0z1qGG+1nLedbwH922Nrpjf/D/AB9PWt1GDRCb6jmvNYMfyxQh8njKYxlcfx+m79KDfax5kZW0i8sHL/OnzDJ4Hz9cYo5aY7j7C91SS6xeQQQw9Mhlz068Oe/t+Va3mx/89F/76rOain7ow81P+ei/nR5sf/PRf++qkYebH/z0X/vqjzo/+ei/99UAODBhkEEeopaQBRQAUUAFFABRQAUUAFFABRQAUUwCikAVj+K/+RU1P/rg1CAivVaS4VA5UszgH0O7jOe1QFL2FP3bQyOSc7ccDnHf1x+Gepq1ze002M21yEaTawXVXtbdVGMuJCc89h245q5f3VxY6Lc3NpGXmRgflXPHGaurLlg5NbGaly3aKGiPquqSzavIiophKWyPwCTg5x6VqCbXNqA2doTj5z5h67R0/wCBZ/KueE3Ncz/pF0pOUeZ9S3J5zW4by1W58hiFByA/HGfrXN+Hptcdrzzo5srHwLhePNz26cVZobJk1syEC0tVXt85b1+nt29faltrjV2uUjuLCBEwDI6SZA47e+c8fT8EM0bf/VH/AH3/APQjUtABRQAUUAFFABRQAUUAFFABRQAUUAFFABWP4r/5FTU/+uDU1uBUlup4byzgTTbu6S5kl8yeI4SHDcZ4PWrayExlm0zUtwHIXHXGeM4z+VHtJXaKnRhGMZJ3uvu1HurKsbLp18wdsEbxlRkjJH4A/jUbyRrgDTNRdzGshAQEjJIwffjP0xT55GfIiVoxHdNC2nXZUEBZEwQeB14/lmiFFlljQ6bfRhmwWkCgAepxRzMfKjT/ALGteuXz+H+FL/Y1t6v+Y/wo5mFkH9jW3q/5j/Cj+xrb1f8AMf4UczCyE/sa1HQuPy/wpf7GtvV/zH+FHMwsg/sa29X/ADH+FH9jW3q/5j/CjmYWQf2Nber/AJj/AAo/sa29X/Mf4UczCyD+xrb1f8x/hR/Y1t6v+Y/wo5mFkH9jW3q/5j/Cj+xrb1f8x/hRzMLIP7GtvV/zH+FH9jW3q/5j/CjmYWQf2Nber/mP8KP7GtvV/wAx/hRzMLIP7GtvV/zH+FH9jW3q/wCY/wAKOZhZB/Y1t6v+Y/wo/sa29X/Mf4UczCyIzo0WeGYD8P8ACj+xY8feP6UuZhyoBo0WOWP6f4Vi+JrZbbw5q0ak82uT+tNNsVkjd0f/AI8f+2r/APoRqB9Hna6kmGoz7XfcEPReOgxj6/UD3ynuNGmgypyT1I6+9O20hgRgdelAXvk0ALj3P50jZA6nrQAuPc/nRj3P50AN53YyeRTse5/OgAx7n86TByRk/nQAuPc/nRj3NACDJzyevrS49z+dAARx1P50g5Ucn86AFx7mkOQOp60ALj3P50Y9z+dACcgjk/nS49z+dABj3P50nO4jJ6etAC49zRj3P50AC9/rXNeMP+QFq3/Xr/jTQma2j/8AHif+usn/AKEav5o6jGx/dP8AvH+Zp9ACH7p+lA6UAFI3T8aAFooAT+MfSloAKO5oAjadFmSIn53BI49KkzSAQd/rS0wA9DQOg+lABSHp+NAC0UAIeopaACkz85+lADqKAGr3+tc34w/5AOrf9en+NCEzV0f/AI8T/wBdZP8A0I1E+kO908/9oXahn3eWJDtHTgD8KHuBoxj5DyfvN39zT8D1P50AIQNp5PT1oA9zQAY9z+dBHHU9aADHufzox7mgBMfOOT0Pf6UuPr+dABj3P50mOTyfzoAqzEf2nark8o56/Sp1kjeV4lfLpjcM9M9KSLa0Xp+pIB15PX1ox7n86ZAEcdT+dIo+UcnpQAuPr+dBHHU9fWgAx7n86MfX86AAgZHJox9fzoAMe5/OkwN55PQd6AFx7n86Me5/OgAXjP1rm/F//IC1b/r0/wAaaA1tI/48f+2sn/oRq/SAZH90/wC838zT6AEP3T9KB0oAWkbp+NABS0AN/jH0p1ABSD7xoApT/wDIZtP+ucg/lRCcavdDsY4z/wChVJr9n5fqS3NwbdFfaGDSqhycY3MB/WrOaZDWlxD0oH3R9KZItIen40ALRQAh6iloAKbn5j9KAHUlAAvf61zfi/8A5AOq/wDXp/jTQGrpP/Hkf+usn/oRqOTRonuGm8+QFnL4GMAnHt7Z+vPWkBfjUbT1+8e59aftHv8AnQAhHB5P50AcdT+dAEKTh7yW22sDGiPuJ4O4t/8AE1MQMcE9fWkncbVmGB6n86XA9/zpiG4G4cnp607A9T+dACbR6n8zRjk8n86AKNwP+Jta9eFbv7f/AFqpwSI98NQzIiyZjZSc5Hlhxn6YP51DepvFafIm1TdcaYr2oMjOwaMZxuOMjr+FXbCMJYW6An5Y1HX0FPqTJ/u0utyfbx3/ADoAG0cnp61RkGB6n86CvuevrQAu0e/50bfr+dACEcjr+dGB6n86AFwPf86btG7v09aAFwPU/nRgep/OgAXjP1rnfF3/ACAtV/69P8aaA1dJ/wCPI/8AXV//AEI1dz70Ahsf3T/vN/M0+gBD0NA6UAUI+Nfn/wBu2TP/AAFm/wDiqvnp+NSi57r0QtRLOr3MkADBo1ViSOCDnGD+BpkpXJP4h9KWmIKT+I0AY2pzvaaglwvzAGJChOAAxcE9OuP5VVsyw0ksTyk8gB/7ZkCsnudkV7iZp2+BYaf/AMA/9Bq1a/8AHomPSrRhMZp873Gm280jAyPGCxAxzjnj61ZH3R9Ka2ImrSaFpD/WmSLRQAh6iloAKT+P8KAFooAQd/rXO+Lf+QDqv/Xr/jQBqaUf9CP/AF1f/wBCNQSaFbyXbXLTT7yxbAYAc+2P169+tAGjGBtPX7x7n1NPwPf86AEIGD1/OgAe/wCdAGemf7Yc7flIKbs9CAhH8zWgQMd+vrSRc+guB7/nVOI/8Ti5XnAgiPX/AGpKGEdn6fqi2QNw69PWlwPf86ZAYHv+dJjk9fzoAwtbQyLLtzwyqeP7qu39RUklg0ejsqs7MZfNAQHuenv1rJrVnWpJQin3LFqpNtpuGwNoLD1+SlluFtNHMxV2AGPlPIycZ69s5qtkZ25pcq6v9WR6bdRjdaHA2bmVt3B+dhj8OPzrUA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Рисунок 13 – Количество запросов с использованием оптимизатора GP

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 14 – Скорость запроса с использованием оптимизатора GP

Проверка производительности СУБД ADB при выполнении такого же запроса с выключенным оптимизатором GP и включённом оптимизаторе GPORCA *optimizer=off* показали улучшенные значения производительности 400-500 RPS. Результаты измерения производительности СУБД ADB с использованием оптимизатора запросов GPORCA показаны на рисунке 15 и рисунке 16.

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S+URXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjE5IDIzOjA5OjQ3AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyNQAAkpIAAgAAAAMyNQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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lvDKNu/wCJ9ri5OflliH/tOl/4RZWwf7e1v0/10X/xFPngLlmcdo37OOkaSunx3Gp+ItXt9Pgt7Szt7y5gWKC2huY7mOALFEgK+ZCmWbLkDBbgYzvBn7J/hHwXr1prUCale6jbeSFmuktF3iKTzF3+VAm4mTaxc/OTGnzYUCvQm8MKOuva5+E0X/xFJ/wjKf8AQe1z/v8ARf8AxujngHLM5vUvhLcaJN/bPhcTS63E+qSfZNSuljs777dcGeZLtxC7eWjEeWEKthQGJxmrvwy+FMHwx8O+HtJsri/YaTZy27ruLR3MspjYzPuXJkQIY0cH7jsDnjbsr4VVsMuv64pU8ETxg/nspG8LqvB1/W8+00Q/QJS54BaXYq2/w9lh+IV94s/tnWp5bqzjsP7GkFqtjFDGzMgQCES5Du7ZMh5PPAAHMeOf2a/DnxG1zU9V8QDUb+e9t1tlilS0kigRZYpAAHgbzlDQpiO4MsYyxCgsxPYjwor8jXtbB/67R/8AxFD+FVB51/XPwmi/+Io54DtLscx4a/Z/0nwZJpc/h+fUtHurNGSd7GCzgj1AGTzB9oijt1jAD4P7pY84AOVAA6rwf4PTwdoKaZarNPiaa4nuJRmSaaWRpJJGPqWYngADgAAACoh4XQHP9va5n/rvH/8AEU9PCqEca9rYH/XaP/4ilzxuLll2N37PN3ik/wC+aX7PL/zyk/75rC/4RNf+g/rf/f6P/wCIo/4RNf8AoP63/wB/o/8A4ir9rHuHLM3fs8v/ADyk/wC+aPs8v/PKT/vmsBvCyrwde1z/AL/x/wDxFKvhZG/5j2uf9/4//iKPax7i5Zm99nl/55Sf980fZ5f+eUn/AHzWF/wia9tf1z/v9H/8RR/wia/9B/W/+/0f/wARR7Vdx8szd+zy/wDPKT/vmj7PL/zyk/75rAbwsi8HXtcP/beP/wCIpP8AhGU/6D2uf9/4/wD4ij2q7haZ0H2eX/nlJ/3zR9nl/wCeUn/fNc//AMIyn/Qe1z/v/H/8RR/wjKf9B7XP+/8AH/8AEUe1j3FaXY6D7PL/AM8pP++aPs8v/PKT/vmuf/4RlP8AoPa5/wB/4/8A4inL4WRv+Y9rn/f+P/4in7RdwtI3vs8v/PKT/vmj7PL/AM8pP++awv8AhFU/6D+uf9/4/wD4ij/hFU/6D+uf9/4//iKXtV3C0zd+zy/88pP++aPs8v8Azyk/75rDHhJW6a/rg/7bR/8AxFH/AAiK/wDQwa3/AN/o/wD4ij2q7haZufZ5f+eUn/fNH2eX/nlJ/wB81if8IeuM/wDCQa3/AN/o/wD4im/8ImvfX9b/AO/0f/xFHtV3HyzN37PL/wA8pP8Avmj7PL/zyk/75rC/4RNf+g/rn/f+P/4ij/hE1/6D+uf9/wCP/wCIo9qu4cszd+zy/wDPKT/vmj7PL/zyk/75rC/4RNf+g/rn/f8Aj/8AiKP+ETX/AKD+uf8Af+P/AOIp+0XcOWZu/Z5f+eUn/fNH2eX/AJ5Sf981hf8ACJr/ANB/XP8Av/H/APEUf8Imv/Qf1z/v/H/8RS9qu4cszd+zy/8APKT/AL5o+zy/88pP++awv+ETX/oP65/3/j/+Io/4RNf+g/rn/f8Aj/8AiKParuHLM3fs8v8Azyk/75o+zy/88pP++awv+ETX/oP65/3/AI//AIij/hFE76/rn/f+P/4ij2q7hyzN37PL/wA8pP8AvmhreT7Ld5jYD7PICW46qQP5msE+FU/6D2uf9/4//iKP+ERjkX5td1plzyrSxkH2PyUe0iPlkS/D1mPgnwwCME6fZk/9+0rK210uk21vomn2FhCZXis4YoI2kI3FUAUE474UdMVxf9pt/dFZfE20D7H/2Q==)

Рисунок 15 – Количество запросов с использованием оптимизатора GPORCA

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 16 – Тестирование простого запроса оптимизатором GPORCA

При использовании оптимизатора GPORCA улучшаются показатели отзывчивости витрины, скорость ответа, уменьшается нагрузка на CPU, по дискам нагрузка идентичная.

## Сложные запросы и оптимизатор GPORCA

Разберем один конкретный пример.

UPDATE x.restrictionsinformation\_actual actual SET sys\_to = 175479, sys\_op = staging.sys\_op FROM ( SELECT restrictionsinformationid, MAX(sys\_op) as sys\_op FROM x.restrictionsinformation\_staging GROUP BY restrictionsinformationid ) staging WHERE staging.restrictionsinformationid=actual.restrictionsinformationid AND actual.sys\_from < 175480 AND actual.sys\_to IS NULL

Построим план выполнения данного запроса. План запроса на оптимизаторе GPORCA, рисунок 17. Для наглядности, план запроса также представлен в визуализаторе на рисунке 18.

Text

Description automatically generated

Рисунок 17 – План запроса, построенный оптимизатором GPORCA

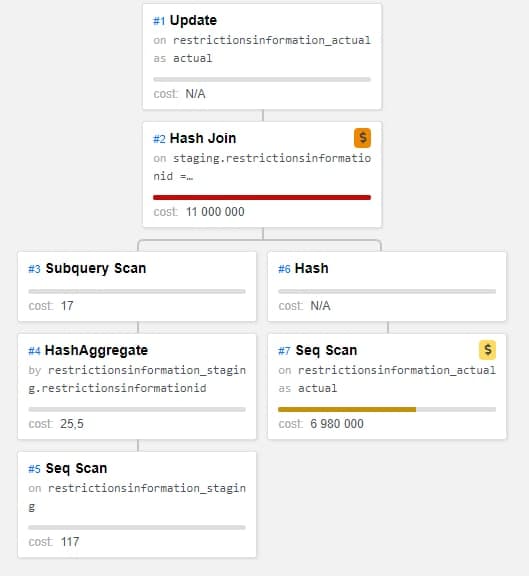


Рисунок 18 – План запроса, построенный оптимизатором GPORCA

На приведенных выше рисунках хорошо видно, что чтение происходит очень медленно, это связано с тем, что оптимизатор GPORCA начинает искать данные на жестком диске не лучшим способом. Данная проблема решается изменением настройки enable\_nestloop=on.

enable\_nestloop (boolean)

Включает или отключает использование планировщиком планов соединения с вложенными циклами. Полностью исключить вложенные циклы невозможно, но при выключении этого параметра планировщик не будет использовать данный метод, если можно применить другие. По умолчанию этот параметр в postgresql имеет значение on, но в Greenplum он имеет значение off.

Проверка производительности чтения сложного запроса после применения настройки приведена на рисунке 19 и рисунке 20.

Text

Description automatically generated

Рисунок 19 – План запроса, построенный после применения настроек

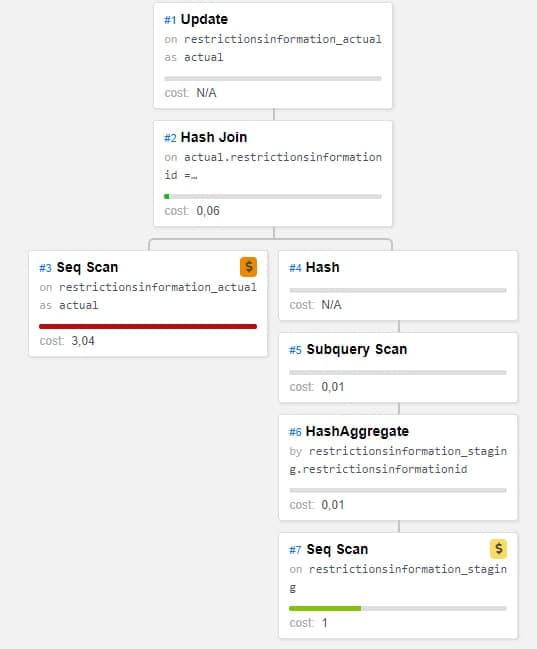


Рисунок 20 – План запроса, построенный после применения настроек

Как видно на рисунках выше, скорость чтения увеличилась за счет более оптимального построения маршрута чтения с диска, что позволило в разы сократить время на операцию.

## Параметры ресурсной группы

В данном разделе мы рассмотрим параметры, которые влияют на использование ресурсов самой СУБД ADB.

По умолчанию при установке СУБД ADB включена схема очередей ресурсов. Настройки по умолчанию подходят для большинства вариантов использования, поэтому не рекомендуется изменять их, пока не определены характеристики памяти и ее использования в конкретном прикладном кейсе.

Группы ресурсов – это более новая схема управления ресурсами СУБД ADB, которая устанавливает ограничения на память, CPU и количество одновременных транзакций в базе данных. Примечательно, что при использовании этой схемы управления ресурсами СУБД ADB, развернутой на RedHat 6.x и CentOS 6.x, производительность этой MPP-СУБД сильно снижалась. Эта проблема была вызвана ошибкой ядра Linux cgroup и исправлена в системах CentOS 7.x и Red Hat 7.x. В случае использования СУБД ADB на RedHat версии 6 рекомендуется обновить ядро ОС до версии 2.6.32-696 или выше, чтобы воспользоваться другими исправлениями реализации cgroups.

Ключевые отличия схем управления ресурсами СУБД ADB (очереди и группы) показаны в следующей таблице 5.

Таблица 5 – Сравнение Очереди ресурсов и Ресурсных групп

|  |  |  |
| --- | --- | --- |
| **Критерий сравнения** | **Очереди ресурсов** | **Группы ресурсов** |
| Параллелизм | Управляется на уровне запроса | Управляется на уровне транзакции |
| ЦП | Указывает приоритет запроса | Указывает процент ресурсов ЦП, используя группы управления ОС Linux |
| Память | Управление памятью на уровне очереди и оператора, число подписанных пользователей может превысить возможный предел | Управляемый на уровне транзакции с улучшенным распределением и отслеживанием, число подписанных пользователей ограничивается и не может превысить заданный предел |
| Изоляция памяти | Нет | Память изолирована между разными группами ресурсов и между транзакциями внутри одной группы ресурсов Greenplum |
| Пользователи | Ограничить авторизации можно только для пользователей без прав администратора | Ограничения применяются как к SUPERUSER, так и к пользователям без прав администратора |
| Очереди | Только при отсутствии доступного слота | Когда ни один слот недоступен или недостаточно доступной памяти |
| Сбой запроса | Запрос немедленно завершается ошибкой при недостатке памяти | Запрос завершается ошибкой при достижении предела фиксированной памяти транзакции, когда не существует общей памяти группы ресурсов, а для транзакции нужно больше памяти |
| Ограничение обхода | Не применяются для ролей SUPERUSER, некоторых операторов и функций | Не применяются для команд SET, RESET и SHOW |
| Внешние компоненты | Нет | Управление памятью и ресурсами ЦП |

Используя наиболее подходящую схему управления ресурсами СУБД ADB в каждом конкретном случае, можно устранить проблемы нехватки памяти, возникающие по разным причинам. В данном разделе мы подробно остановимся на изучении влияния ресурсной группы на производительность (более подробно, что такое ресурсная группа, описано на сайте Greenplum в статье https://gpdb.docs.pivotal.io/5270/admin\_guide/workload\_mgmt\_resgroups.html). Параметры ресурсных групп по умолчанию приведены в таблице 6.

Таблица 6 – Параметры ресурсных групп по умолчанию

| **Limit Type** | **admin\_group** | **default\_group** |
| --- | --- | --- |
| CONCURRENCY | 10 | 20 |
| CPU\_RATE\_LIMIT | 10 | 30 |
| CPUSET | -1 | -1 |
| MEMORY\_LIMIT | 10 | 30 |
| MEMORY\_SHARED\_QUOTA | 50 | 50 |
| MEMORY\_SPILL\_RATIO | 20 | 20 |
| MEMORY\_AUDITOR | vmtracker | vmtracker |

Отметим, что группа admin\_group является привилегированной и при конкуренции за ресурсы – всегда будет в приоритете у системы, кроме того, любые ограничения на нее не действуют. В связи с этим, для корректной настройки ресурсных групп рекомендуется создавать новые группы и использовать только их. Иначе может возникнуть проблема, когда ресурсная группа администратора использует все доступные ресурсы системы, а группа, созданная специально для обработки продуктивного трафика, является вторичной и ей не хватает ресурсов.

Из всех приведенных в таблице 6 параметров, наиболее интересный параметр CONCURRENCY. Дословно название данного параметра переводится как «Параллелизм», что наиболее четко отражает его значение, а именно – количество параллельных потоков, которые доступны ресурсной группе. Даже в группе admin\_group этот параметр имеет важнейшее значение и реально ограничивает количество одновременных соединений приложения с мастером СУБД ADB. Подробное изучение работы данного параметра показало, что его значение напрямую зависит от количества CPU на сервере, где расположен мастер ADB, то есть в нашем случае 48 (в соответствии с таблицей 3), однако каждый CPU обеспечивает несколько параллельных потоков и итоговая цифра минимально начинается с 96, при этом часть потоков уходит на внутренние взаимодействия мастера с сегментами. Рассмотрим результаты тестов.

Первая проверка производительности проводилось при CONCURRENCY, равном 140, результаты проверки представлены на рисунке 21.

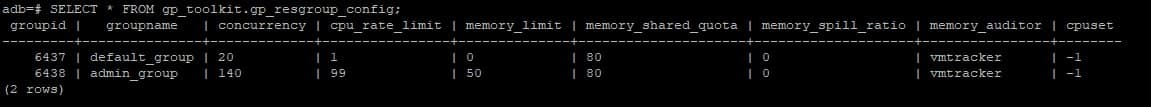


Рисунок 21 – CONCURRENCY = 140

Результаты проверки производительности с тем же значением параметра CONCURRENCY приведены на рисунке 22 и рисунке 23. Средний RPS равен 280, при среднем отклике 860 ms. Значительное снижение значений этих параметров вызвано большим количеством параллельных потоков, которые сами по себе “отъедают” ресурсы у сервера.



Рисунок 22 – Количество запросов с CONCURRENCY = 140



Рисунок 23 – Скорость запроса с CONCURRENCY = 140

Результаты проверки производительности со значением параметра CONCURRENCY, равном 70, представлены на рисунке 24.

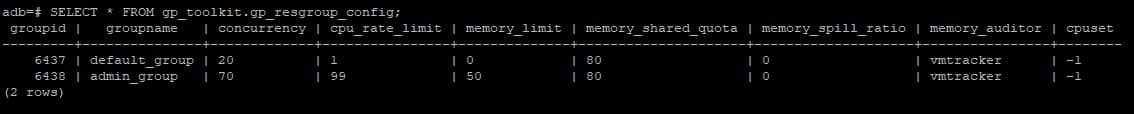


Рисунок 24 – CONCURRENCY = 70

На графиках производительности на рисунке 25 и рисунке 26 заметен рост показателя RPS до 470 при среднем отклике 209 ms. Это значительный рост производительности.

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S48RXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjIxIDEyOjA3OjE5AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2NwAAkpIAAgAAAAM2NwAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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dHOw9mjiP+Ek0T/ori/wDg60//AOJo/wCEk0T/AKK4v/g60/8A+Jrt/ts398/nR9tm/vn86fOw5EcR/wAJJon/AEVxf/B1p/8A8TR/wkmif9FcX/wdaf8A/E12/wBtm/vn86Pts398/nS52PkRxH/CSaJ/0Vxf/B1p/wD8TR/wkmif9FcX/wAHWn//ABNdv9tm/vn86Pts398/nRzMORHEf8JJon/RXF/8HWn/APxNH/CSaJ/0Vxf/AAdaf/8AE12/22b++fzo+2zf3z+dHMw5EcR/wkmif9FcX/wdaf8A/E0f8JJon/RXF/8AB1p//wATXb/bZv75/Oj7bN/fP50czDkRxH/CSaJ/0Vxf/B1p/wD8TR/wkmif9FcX/wAHWn//ABNdv9tm/vn86Pts398/nRzMORHEf8JJon/RXF/8HWn/APxNH/CSaJ/0Vxf/AAdaf/8AE12/22b++fzo+2zf3z+dHMw5EcR/wkmif9FcX/wdaf8A/E0f8JJon/RXF/8AB1p//wATXb/bZv75/Oj7bN/fP50czDkRxH/CSaJ/0Vxf/B1p/wD8TR/wkmif9FcX/wAHWn//ABNdv9tm/vn86Pts398/nRzMORHEf8JJon/RXF/8HWn/APxNH/CSaJ/0Vxf/AAdaf/8AE12/22b++fzo+2zf3z+dHMw5EcR/wkmif9FcX/wdaf8A/E0f8JJon/RXF/8AB1p//wATXb/bZv75/Oj7bN/fP50czDkRxH/CSaJ/0Vxf/B1p/wD8TR/wkmif9FcX/wAHWn//ABNdv9tm/vn86Pts398/nRzMORHEf8JJon/RXF/8HWn/APxNH/CR6J3+Li4/7DWn/wDxNdv9tm/vn86PtkzceYwzxwaOZhyI+d/2ktLsfHXw1mtdM+Jtrf3tpdRXi2kms2TeYEVwVUBcljuwBxn1FfFEomtZ3jfWLiOWM4OyeLcPcEHiv1k+1T8HzpOevzHmkjupmkZRKyDGflJo5mHKj8n7jVry8+1+f4ivpfthDXe69AF0cswZ+Oqsxx9B0qxd+JdXvgpuPFmqTfIUKtf9VZSrgnPQhiOnSv1dWaYMD58p5/vms661q7iuGVZWx/vH/GlzMfKj8srfxFqVq2+LxTqUUn7sFor1ULbVwucD+EcDHY9q0pviBrEvhz+yx4m1QPJeTXV1cnVD5l2ssMMRjkIAJUCNuucggEda/Tf+3Lz/AJ6n8z/jR/bl5/z1P5n/ABo5mHKj8upPF2uOtrGfGerGG0bdbIdRJEJwBlASQhwAOBR/wlGryW93FJ4t1NoLk5nh+3lkmB+9uUkg/lg96/UT+3bz/nqfzP8AjUkeuXbcGQkH3P8AjRzMOVH5Z6f4m1bSba4hsPFuq2NvcLiaG1vPKSQHBZWCgAqSq9RipvDPhq88a6vFp9vrvl/aJFWS8ubyGFIAxALs7dlzk8Hp0Nfp7/wkN4kjqHwPq3+NLJ4gvI0Ry/mFjj58nH05o5mHKjktL1rRLPTLS3PxajDQwpGQNZ0/HCgHHFWP+Ei0T/orqf8Ag50//wCJrpP7eu2P3h+v+NO/t26/vL+v+NPmYuVHMf8ACSaJ/wBFdT/wdaf/APE0f8JJon/RXUP/AHGtP/8Aia6qPW7lnUErgnHf/Go2126jmZQVx+P+NHMw5Ec1/wAJFon/AEV1P/Bzp/8A8TR/wkWif9FdT/wc6f8A/E10v9vXX95f1/xo/t66/vL+v+NHMw5Ec1/wkWif9FdT/wAHOn//ABNH/CRaJ/0V1P8Awc6f/wDE10v9vXX95f1/xp8WuXTSIpK4JA7/AONHMw5Ecv8A8JFon/RXkP8A3GdP/wDiaX/hIdE/6K6n/g50/wD+Jrpm1u5jmZQVx+P+NL/b11/eX9f8aOZhyI5j/hIdE/6K6n/g50//AOJpG8Q6LtOPi8mf+wzp/wD8TXUf29df3l/X/Gj+3rr+8v6/40c7DkRxmqX3hvWtOvLC6+LMc1tdI0Usb6zYFWRlwVOADg57EfWtvxD8QPCt1oOqRw+KNDnla1njjih1SB3kymEAUPktxjA71u2es3MkgUsBuOMjOf51F4slkfwnrqtK7K1jOCCxwR5bUnJy3GopH8z7KNx+devvRUpC5+6v5UUrlH//2Q==)

Рисунок 25 – Количество запросов с CONCURRENCY = 70



Рисунок 26 – Скорость запроса с CONCURRENCY = 70

Результаты проверки производительности с третьим значением показателя CONCURRENCY, равным 28, представлены на рисунке 27, рисунке 28 и рисунке 29. На графиках видно еще большее улучшение производительности – RPS 500 при отклике 71 ms.



Рисунок 27 – CONCURRENCY = 28



Рисунок 28 – Количество запросов с CONCURRENCY = 28

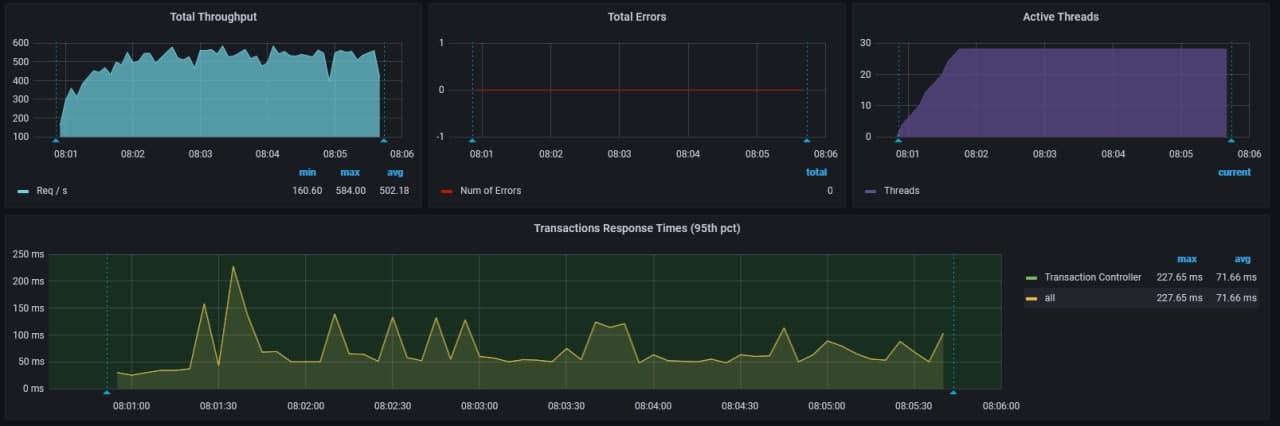


Рисунок 29 – Скорость запроса с CONCURRENCY = 28

Итоговое заключение по производительности следующее: параметр CONCURRENCY является ключевым и для конфигурации мастера ADB его можно вычислить как количество ядер на мастере ADB, умноженное на 2, но учитывая, что разные типы процессоров, виртуализация, влияние сети, все это может как давать прибавку в RPS, так и снижать их. Параметр CONCURRENCY также напрямую связан с производительностью Ядра Prostore, подробнее в разделе «Производительность Ядра Prostore».

## Оптимальное количество соединений

Управление количеством соединений в СУБД ADB – одно из ключевых направлений оптимизации производительности. В СУБД ADB управление количеством соединений регулируются настройками следующих параметров:

**max\_connections** (описание на сайте производителя https://gpdb.docs.pivotal.io/6-2/ref\_guide/config\_params/guc-list.html#max\_connections) – данный параметр отвечает за максимальное число конкурентных подключений к master серверу и сегментам соответственно. Под каждое фактическое подключение создается отдельный процесс в операционной системе. Изменение данного параметра требует перезагрузки сервера.

* Принимаемое значение: integer
* Минимальное значение: 1
* Максимальное значение: 262143

Если подключений будет больше максимального количества, в логах СУБД ADB появится сообщение «FATAL: sorry, too many clients already».

Если задать значение больше максимального, сервер не перезагрузится, будут поступать ошибки, указывающие на то, что в конфиг-файле (параметр max\_connections больше допустимого).

Если выставить параметр max\_connections в слишком большое значение (например, 200 000, что меньше разрешенного максимального значения), появится ошибка «Cannot allocate memory». Таким образом срабатывает проверка: max\_connections умножается на величину страницы буфера и проверяется, можно ли выделить столько памяти на данном сервере.

**max\_prepared\_transactions** (описание на сайте производителя [https://gpdb.docs.pivotal.io/6-2/ref\_guide/config\_params/guc-list.html#max\_prepared\_transactions](https://gpdb.docs.pivotal.io/6-2/ref_guide/config_params/guc-list.html" \l "max_prepared_transactions)) задаёт максимальное число транзакций, которые могут одновременно находиться в «подготовленном» состоянии.

* Принимаемое значение: integer
* Минимальное значение: 1
* Максимальное значение: 262143

При нулевом значении (по умолчанию) механизм подготовленных транзакций отключается. Задать этот параметр можно только при запуске сервера.

Если использовать транзакции не планируется, этот параметр следует обнулить, чтобы не допустить непреднамеренного создания подготовленных транзакций. Если же подготовленные транзакции применяются, то max\_prepared\_transactions, вероятно, должен быть не меньше, чем max\_connections, чтобы подготовить транзакцию можно было в каждом сеансе.

Для ведомого сервера значение этого параметра должно быть больше или равно значению на ведущем. В противном случае на ведомом сервере не будут разрешены запросы.

В связи с вышеизложенной информацией был проведен ряд тестирований.

Большое количество соединений показано на рисунке (см. Рисунок 30).

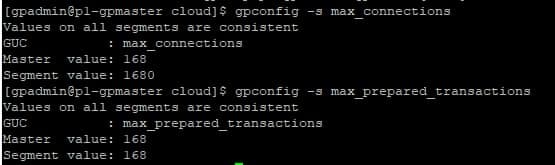


Рисунок 30 - Большое количество соединений

Результаты показали низкие значения производительности (см. Рисунок 31, Рисунок 32).



Рисунок 31 - Большое количество соединений



Рисунок 32 - Большое количество соединений

Среднее количество соединений показано на рисунке (см. Рисунок 33).

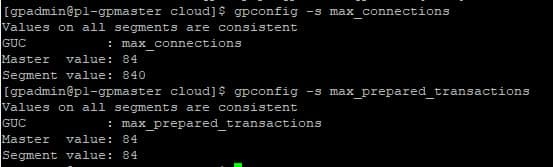


Рисунок 33 - Среднее количество соединений

Результаты показали увеличение значения производительности (см. Рисунок 34, Рисунок 35).

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 34 - Среднее количество соединений



Рисунок 35 - Среднее количество соединений

Низкое количество соединений показано на рисунке (см. Рисунок 36).

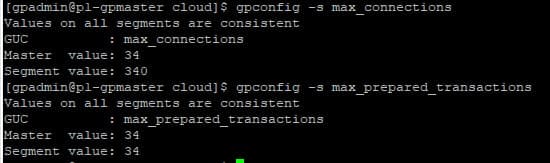


Рисунок 36 - Низкое количество соединений

Результаты показали значительные значения увеличения производительности (см. Рисунок 37, Рисунок 38).



Рисунок 37 - Низкое количество соединений

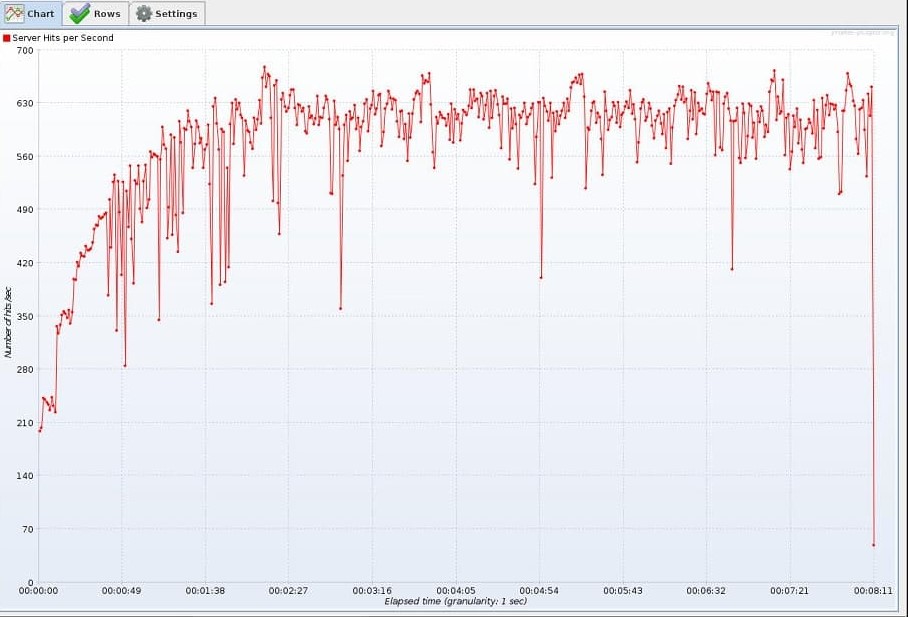


Рисунок 38 - Низкое количество соединений

Как видно из предоставленных результатов тестирований, наиболее производительные значения параметров достигаются при снижении количества соединений. Однако сильное снижение данных параметров не рекомендуется делать ввиду того, что это так же может стать “бутылочным горлышком” системы, рекомендуется выбирать параметры max\_prepared\_transactions равным количеству ядер на сегментах ADB, max\_connection на мастере равным количеству ядер на сегментах, а на самих сегментах значение ядер перемноженное на 5-10 значений, в зависимости от потребности в запасе производительности. Для определения точных параметров max\_connection и max\_prepared\_transactions необходимо производить нагрузочное тестирование, строгой рекомендации к установке определенных значений предоставить заранее не представляется возможным ввиду наличия многих факторов, таких как: инфраструктура, использование ресурсов сервера иными процессами, а так же корректное создание индексов.

## Прочие изменения производительности

Дополнительными средствами оптимизации производительности СУБД ADB могут являться:

1. Создание дополнительных индексов.
2. Перенос часто читаемых данных в одну таблицу, уменьшение join’ов.
3. Улучшение производительности можно получить при отключении логирования на GP, дает 12% роста RPS: log=off.

# СОЗДАНИЕ БД И ТАБЛИЦ РОСРЕЕСТР

На основании предоставленных ведомством данных о наполнении таблиц, был проведен анализ создаваемой базы данных и предоставлены скрипты для создания таблиц, которые приведены ниже.

# Предварительное удаление базы данных egrn для создания с нуля

drop database egrn;

# Создание базы данных egrn

create database egrn;

# обращение к БД egrn по умолчанию

use egrn;

# Создание таблиц

create table egrn.PropertyInfo

(

CadNumber varchar not null,

RecordNumber varchar not null,

SectionNumber varchar not null default '-',

RegistrationDate timestamp null,

TypeCode varchar not null default '-',

PropertyTypeValue varchar null,

CancelDate timestamp null,

ReadableAddress varchar null,

NoteAddress varchar null,

AddressTypeCode varchar null,

TypeValueAddress varchar null,

FIAS varchar null,

Okato varchar null,

KLADRCode varchar null,

Oktmo varchar null,

PostalCode varchar null,

RegionCode varchar null,

RegionValue varchar null,

DistrictType varchar null,

DistrictName varchar null,

CityType varchar null,

CityName varchar null,

UrbanDistricType varchar null,

UrbanDistricName varchar null,

SovietVillagType varchar null,

NameSovietVill varchar null,

LocalityType varchar null,

LocalityName varchar null,

StreetType varchar null,

StreetName varchar null,

Level1Type varchar null,

Level1Name varchar null,

Level2Type varchar null,

Level2Name varchar null,

Level3Type varchar null,

Level3Name varchar null,

ApartmentType varchar null,

ApartmentName varchar null,

Other varchar null,

RoomPurposeCode varchar null,

RoomPurposeValue varchar null,

ObjectPurpose varchar null,

RoomTypeCode varchar null,

RoomTypeValue varchar null,

PropName varchar null,

LandAreaTypeCode varchar null,

LandAreaTypeValue varchar null,

LandAreaValue double precision null,

PropAreaValue double precision null,

PropArea double precision null,

PropBltUpArea double precision null,

PropExt double precision null,

PropDpth double precision null,

PropOccDpth double precision null,

PropVol double precision null,

PropHght double precision null,

PropYearBlt varchar null,

PropYearCom varchar null,

ModifyDate timestamp null,

ParentCadNumber varchar null,

ParentRoomCadNumber varchar null,

CommonProperty varchar null,

FloorsCount bigint null,

InBoundariesMark boolean null,

RefPointName varchar null,

LocationDescriptionLand varchar null,

LandCategoryType varchar null,

LandCategoryValue varchar null,

PermissedUseLandCode varchar null,

PermissedUseLandValue varchar null,

MessageOffset bigint null,

primary key (CadNumber, TypeCode)

) distributed by (CadNumber);

create table egrn.RightInfo

(

RecordNumber varchar not null,

CadNumber varchar null,

RightNumber varchar not null default '-',

RightType varchar null,

RightCode varchar null,

RegDate timestamp not null,

CancelDate timestamp null,

ModifyDate timestamp null,

OwnershipTypeCode varchar null,

OwnershipTypeValue varchar null,

RightShareNum bigint null,

RightShareDen bigint null,

RightShareBalHec double precision null,

RightShareHec double precision null,

RightShareUnDe varchar null,

RightShareUnProp varchar null,

RightShareInfo varchar null,

RightShareObjInfo varchar null,

RightShareDe varchar null,

MessageOffset bigint null,

primary key (RecordNumber, RightNumber, RegDate)

) distributed by (RecordNumber);

create table egrn.RightHolderIndividual

(

RecordNumber varchar not null,

LastName varchar not null default '-',

FirstName varchar not null default '-',

MiddleName varchar not null default '-',

BirthDate date not null default CAST('0001-01-01' AS date),

SNILS varchar not null default '-',

DocCodeReferCode varchar null,

DocCodeTxt varchar null,

DocumentName varchar null,

DocSeries varchar not null default '-',

DocNumber varchar not null default '-',

DocDate date not null default CAST('0001-01-01' AS date),

Issuer varchar null,

DivisionCode varchar null,

ModifyDate timestamp null,

primary key (RecordNumber, LastName, FirstName, MiddleName, BirthDate, SNILS, DocSeries, DocNumber, DocDate)

) distributed by (RecordNumber);

create table egrn.RightHolderLegalEntity

(

RecordNumber varchar not null,

LegalEntityCode varchar null,

LegalEntityType varchar not null default '-',

LegalEntityName varchar not null default '-',

GovementEntityFullName varchar not null default '-',

LegalEntityINN varchar not null default '-',

LegalEntityOGRN varchar not null default '-',

LegalEntityKPP varchar null,

IncorporationFormCode varchar null,

IncorporationFormName varchar null,

NotResidentRegNumber varchar null,

IncorporateCountryCode varchar null,

IncorporateCountryValue varchar null,

StateRegDate date null,

RegistrationOrganName varchar null,

RegAdressSubject varchar null,

ModifyDate timestamp null,

primary key (RecordNumber, LegalEntityType, LegalEntityName, GovementEntityFullName, LegalEntityINN,

LegalEntityOGRN)

) distributed by (RecordNumber);

create table egrn.RightHolderPublicFormation

(

RecordNumber varchar not null,

SubjectUISId varchar null,

NameCode varchar null,

Name varchar not null default '-',

RFDescription varchar null,

MunicipalityName varchar not null default '-',

OKTMO varchar null,

ModifyDate timestamp null,

primary key (RecordNumber, Name, MunicipalityName)

) distributed by (RecordNumber);

create table egrn.RestrictionInfo

(

RecordNumber varchar not null,

CadNumber varchar not null default '-',

RightRestricRegNum varchar not null default '-',

RightRestRegNumCod varchar null,

RightRestRegNumVal varchar null,

RegDate date not null default CAST('0001-01-01' AS date),

CancelDate date null,

ModifyDate timestamp null,

MessageOffset bigint null,

primary key (RecordNumber, CadNumber, RightRestricRegNum, RegDate)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyIndividual

(

RecordNumber varchar not null,

TypeCode varchar null,

TypeValue varchar null,

IndividualTypeCode varchar null,

IndividualTypeValue varchar null,

LastName varchar not null default '-',

FirstName varchar not null default '-',

MiddleName varchar not null default '-',

BirthDate date not null default CAST('0001-01-01' AS date),

BirthPlace varchar null,

CitizenshipCountryCode varchar null,

CitizenshipCountryValue varchar null,

NoCitizenshipPerson varchar null,

INN varchar null,

SNILS varchar not null default '-',

DocCodeReferCode varchar null,

DocCodeTxt varchar null,

DocumentName varchar null,

DocSeries varchar not null default '-',

DocNumber varchar not null default '-',

DocDate date not null default CAST('0001-01-01' AS date),

Issuer varchar null,

DivisionCode varchar null,

ModifyDate timestamp null,

CivilNumber varchar null,

SpecialMarks varchar null,

NotarizeDate date null,

NotaryName varchar null,

NotaryActionNumber varchar null,

DocsSource varchar null,

DocumentInfo varchar null,

DealRegisteredNumber varchar null,

DealRegisteredRightNumber varchar null,

DealRegisteredDate date null,

DealRegisteredOrgan varchar null,

DocumentStartDate date null,

AddInformation varchar null,

DocUISId varchar null,

Email varchar null,

MailingAddress varchar null,

RegistryAddress varchar null,

FactAddress varchar null,

AnotherOrganAddress varchar null,

ExecutiveOrganAddress varchar null,

AnotherAddress varchar null,

Comment varchar null,

SubjectUISId varchar null,

primary key (RecordNumber, LastName, FirstName, MiddleName, BirthDate, SNILS, DocSeries, DocNumber, DocDate)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyPublicFormation

(

RecordNumber varchar not null,

PublicFormationCode varchar null,

PublicFormationType varchar null,

SubjectUISId varchar null,

NameCode varchar null,

Name varchar not null default '-',

RFDescription varchar null,

MunicipalityName varchar null,

OKTMO varchar null,

ModifyDate timestamp null,

primary key (RecordNumber, Name)

) distributed by (RecordNumber);

create table egrn.ChildRoomCadNumbers

(

RecordNumber varchar not null,

ChildRoomCadNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, ChildRoomCadNumber)

) distributed by (RecordNumber);

create table egrn.ChildCarSpaceCadNumbers

(

RecordNumber varchar not null,

ChildCarSpaceCadNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, ChildCarSpaceCadNumber)

) distributed by (RecordNumber);

create table egrn.ComplexIncludedCadNumbers

(

RecordNumber varchar not null,

ComlexChildCadNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, ComlexChildCadNumber)

) distributed by (RecordNumber);

create table egrn.REComplexIncludedCadNumbers

(

RecordNumber varchar not null,

ComlexChildCadNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, ComlexChildCadNumber)

) distributed by (RecordNumber);

create table egrn.CommonLandCadNumbers

(

RecordNumber varchar not null,

CommonLandCadNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, CommonLandCadNumber)

) distributed by (RecordNumber);

create table egrn.RIUnderlyingDocumentInfo

(

RecordNumber varchar not null,

RightNumber varchar not null default '-',

DocumentName varchar not null default '-',

DocSeries varchar not null default '-',

DocNumber varchar not null default '-',

DocDate date not null default CAST('0001-01-01' AS date),

DocCode varchar null,

DocCodeValue varchar null,

ModifyDate timestamp null,

primary key (RecordNumber, RightNumber, DocumentName, DocSeries, DocNumber, DocDate)

) distributed by (RecordNumber);

create table egrn.PropCost

(

RecordNumber varchar not null,

PropCostValue double precision null,

PropCostRegDate date not null default CAST('0001-01-01' AS date),

PropCostAppDate date not null default CAST('0001-01-01' AS date),

PropCostApprovDate date null,

PropCostDetDate date null,

PropCostRevStateDate date null,

ModifyDate timestamp null,

primary key (RecordNumber, PropCostRegDate, PropCostAppDate)

) distributed by (RecordNumber);

create table egrn.RestrictedRightTelephones

(

RecordNumber varchar not null,

RightRestricRegNum varchar not null,

TelephoneNumber varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, RightRestricRegNum, TelephoneNumber)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyLegalEntity

(

RecordNumber varchar not null,

TypeCode varchar null,

TypeValue varchar null,

LegalEntityCode varchar null,

LegalEntityType varchar not null default '-',

LegalEntityName varchar not null default '-',

GovementEntityFullName varchar not null default '-',

LegalEntityINN varchar not null default '-',

LegalEntityOGRN varchar not null default '-',

LegalEntityKPP varchar null,

IncorporationFormCode varchar null,

IncorporationFormName varchar null,

NotResidentRegNumber varchar null,

IncorporateCountryCode varchar null,

IncorporateCountryValue varchar null,

StateRegDate date,

RegistrationOrganName varchar null,

RegAdressSubject varchar null,

Email varchar null,

MailingAddress varchar null,

RegistryAddress varchar null,

FactAddress varchar null,

AnotherOrganAddress varchar null,

ExecutiveOrganAddress varchar null,

AnotherAddress varchar null,

ModifyDate timestamp,

primary key (RecordNumber, LegalEntityType, LegalEntityName, GovementEntityFullName, LegalEntityINN,

LegalEntityOGRN)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyAnotherType

(

RecordNumber varchar not null,

InvestmentUnitName varchar not null default '-',

InvestmentUnitMark varchar null,

SubjectUISId varchar not null default '-',

CertificateName varchar not null default '-',

BondsNumber varchar not null default '-',

IssueDate date not null default CAST('0001-01-01' AS date),

LegalEntityName varchar not null default '-',

LegalEntityINN varchar not null default '-',

LegalEntityOGRN varchar not null default '-',

LegalEntityKPP varchar null,

IncorporationFormCode varchar null,

IncorporationFormName varchar null,

NotResidentRegNumber varchar null,

IncorporateCountryCode varchar null,

IncorporateCountryValue varchar null,

StateRegDate date,

RegistrationOrganName varchar null,

RegAdressSubject varchar null,

Email varchar null,

MailingAddress varchar null,

RegistryAddress varchar null,

FactAddress varchar null,

AnotherOrganAddress varchar null,

ExecutiveOrganAddress varchar null,

AnotherAddress varchar null,

AparthouseOwnersName varchar not null default '-',

EquityParticipants varchar not null default '-',

NotEquityParticipants varchar not null default '-',

OtherName varchar not null default '-',

OtherShortName varchar null,

Comment varchar null,

Territory varchar null,

PrintText varchar null,

ModifyDate timestamp,

primary key (RecordNumber, InvestmentUnitName, SubjectUISId, CertificateName, BondsNumber, IssueDate,

LegalEntityName, LegalEntityINN, LegalEntityOGRN, AparthouseOwnersName, EquityParticipants,

NotEquityParticipants, OtherName)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyPublicServitude

(

RecordNumber varchar not null,

Name varchar not null default '-',

SubjectUISId varchar null,

ModifyDate timestamp,

primary key (RecordNumber, Name)

) distributed by (RecordNumber);

create table egrn.RestrictedRightPartyUndefined

(

RecordNumber varchar not null,

Name varchar not null default '-',

SubjectUISId varchar null,

ModifyDate timestamp,

primary key (RecordNumber, Name)

) distributed by (RecordNumber);

create table egrn.PermissedUse

(

RecordNumber varchar not null,

PermissedUseName varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, PermissedUseName)

) distributed by (RecordNumber);

create table egrn.RightShareCadNumbers

(

RecordNumber varchar not null,

RightShareCadNum varchar not null,

ModifyDate timestamp null,

primary key (RecordNumber, RightShareCadNum)

) distributed by (RecordNumber);

create table egrn.IncapacityInfo

(

RecordNumber varchar not null,

CourtName varchar null,

IncapacityStartDate date not null default CAST('0001-01-01' AS date),

IncapacityDocumentName varchar not null default '-',

ModifyDate timestamp null,

primary key (RecordNumber, IncapacityStartDate, IncapacityDocumentName)

) distributed by (RecordNumber);

create table egrn.PropCostDocs

(

RecordNumber varchar not null,

PropCostApprovDocDate date not null default CAST('0001-01-01' AS date),

PropCostApprovDocNumber varchar not null default '-',

PropCostApprovDocCode varchar null,

PropCostApprovDocName varchar null,

PropCostApprovDocSeries varchar not null default '-',

PropCostApprovDocIssuer varchar null,

PropCostApprovDocSubdivisionCode varchar null,

PropCostApprovDocCivilNumber varchar null,

PropCostApprovDocSpecialMarks varchar null,

PropCostApprovDocNotarizeDate date null,

PropCostApprovDocNotaryName varchar null,

PropCostApprovDocNotaryActionNum varchar null,

PropCostApprovDocSource varchar null,

PropCostApprovDocInfo varchar null,

PropCostApprovDocDealNumber varchar null,

PropCostApprovDocDealRightNumber varchar null,

PropCostApprovDocDealDate date null,

PropCostApprovDocDealOrgan varchar null,

PropCostApprovDocStartDate date null,

PropCostApprovDocAddInfo varchar null,

PropCostApprovMigrationId varchar null,

ModifyDate timestamp,

primary key (RecordNumber, PropCostApprovDocDate, PropCostApprovDocNumber, PropCostApprovDocSeries)

) distributed by (RecordNumber);

create table egrn.Materials

(

RecordNumber varchar not null,

BuildMatCode varchar not null default '-',

BuildMatValue varchar,

ModifyDate timestamp,

primary key (RecordNumber, BuildMatCode)

) distributed by (RecordNumber);

create table egrn.FloorInfo

(

RecordNumber varchar not null,

FloorNumber bigint not null default 0,

FloorTypeCode varchar null,

FloorTypeValue varchar null,

ModifyDate timestamp,

primary key (RecordNumber, FloorNumber)

) distributed by (RecordNumber);

create table egrn.ParentLandCadNumber

(

RecordNumber varchar not null,

ParentLandCadNumber varchar not null default '-',

ModifyDate timestamp,

primary key (RecordNumber, ParentLandCadNumber)

) distributed by (RecordNumber);

create table egrn.LocationInfo

(

RecordNumber varchar not null,

LocationComplexFIAS varchar null,

LocationComplexOkato varchar not null default '-',

LocationComplexKLADRCode varchar null,

LocationComplexOktmo varchar not null default '-',

LocationComplexPostalCode varchar null,

LocationComplexRegionCode varchar not null default '-',

LocationComplexRegionValue varchar null,

LocationComplexDistrictType varchar null,

LocationComplexDistrictName varchar null,

LocationComplexCityType varchar null,

LocationComplexCityName varchar null,

LocationComplexUrbanDistrictType varchar null,

LocationComplexUrbanDistrictName varchar null,

LocationComplexSovietVillagType varchar null,

LocationComplexNameSovietVill varchar null,

LocationComplexLocalityType varchar null,

LocationComplexLocalityName varchar null,

LocationComplexDescription varchar null,

ModifyDate timestamp,

primary key (RecordNumber, LocationComplexOkato, LocationComplexOktmo, LocationComplexRegionCode)

) distributed by (RecordNumber);

create table egrn.OldNumbers

(

RecordNumber varchar not null,

PropOldNTypeCode varchar null,

PropOldNTypeValue varchar not null default '-',

PropOldNNumb varchar null,

PropOldNAssDate date null,

ModifyDate timestamp,

primary key (RecordNumber, PropOldNTypeValue)

) distributed by (RecordNumber);

## Индексы

Для оптимизации производительности запросов к базе данных было предложено создание следующих индексов.

| **schemaname** | **tablename** | **indexname** |
| --- | --- | --- |
| egrn | childcarspacecadnumbers\_actual | childcarspacecadnumbers\_actual\_recordnumber\_idx |
| egrn | childcarspacecadnumbers\_actual | childcarspacecadnumbers\_actual\_sys\_from\_idx |
| egrn | childcarspacecadnumbers\_actual | pk\_egrn2\_childcarspacecadnumbers\_actual |
| egrn | childcarspacecadnumbers\_history | childcarspacecadnumbers\_history\_sys\_to\_idx |
| egrn | childcarspacecadnumbers\_history | pk\_egrn2\_childcarspacecadnumbers\_history |
| egrn | childroomcadnumbers\_actual | childroomcadnumbers\_actual\_recordnumber\_idx |
| egrn | childroomcadnumbers\_actual | childroomcadnumbers\_actual\_sys\_from\_idx |
| egrn | childroomcadnumbers\_actual | pk\_egrn2\_childroomcadnumbers\_actual |
| egrn | childroomcadnumbers\_history | childroomcadnumbers\_history\_sys\_to\_idx |
| egrn | childroomcadnumbers\_history | pk\_egrn2\_childroomcadnumbers\_history |
| egrn | commonlandcadnumbers\_actual | commonlandcadnumbers\_actual\_recordnumber\_idx |
| egrn | commonlandcadnumbers\_actual | commonlandcadnumbers\_actual\_sys\_from\_idx |
| egrn | commonlandcadnumbers\_actual | pk\_egrn2\_commonlandcadnumbers\_actual |
| egrn | commonlandcadnumbers\_history | commonlandcadnumbers\_history\_sys\_to\_idx |
| egrn | commonlandcadnumbers\_history | pk\_egrn2\_commonlandcadnumbers\_history |
| egrn | complexincludedcadnumbers\_actual | complexincludedcadnumbers\_actual\_sys\_from\_idx |
| egrn | complexincludedcadnumbers\_actual | pk\_egrn2\_complexincludedcadnumbers\_actual |
| egrn | complexincludedcadnumbers\_history | complexincludedcadnumbers\_history\_sys\_to\_idx |
| egrn | complexincludedcadnumbers\_history | pk\_egrn2\_complexincludedcadnumbers\_history |
| egrn | floorinfo\_actual | floorinfo\_actual\_recordnumber\_idx |
| egrn | floorinfo\_actual | floorinfo\_actual\_sys\_from\_idx |
| egrn | floorinfo\_actual | pk\_egrn2\_floorinfo\_actual |
| egrn | floorinfo\_history | floorinfo\_history\_sys\_to\_idx |
| egrn | floorinfo\_history | pk\_egrn2\_floorinfo\_history |
| egrn | incapacityinfo\_actual | incapacityinfo\_actual\_sys\_from\_idx |
| egrn | incapacityinfo\_actual | pk\_egrn2\_incapacityinfo\_actual |
| egrn | incapacityinfo\_history | incapacityinfo\_history\_sys\_to\_idx |
| egrn | incapacityinfo\_history | pk\_egrn2\_incapacityinfo\_history |
| egrn | locationinfo\_actual | locationinfo\_actual\_recordnumber\_idx |
| egrn | locationinfo\_actual | locationinfo\_actual\_sys\_from\_idx |
| egrn | locationinfo\_actual | pk\_egrn2\_locationinfo\_actual |
| egrn | locationinfo\_history | locationinfo\_history\_sys\_to\_idx |
| egrn | locationinfo\_history | pk\_egrn2\_locationinfo\_history |
| egrn | materials\_actual | materials\_actual\_recordnumber\_idx |
| egrn | materials\_actual | materials\_actual\_sys\_from\_idx |
| egrn | materials\_actual | pk\_egrn2\_materials\_actual |
| egrn | materials\_history | materials\_history\_sys\_to\_idx |
| egrn | materials\_history | pk\_egrn2\_materials\_history |
| egrn | oldnumbers\_actual | oldnumbers\_actual\_propoldnnumb\_idx |
| egrn | oldnumbers\_actual | oldnumbers\_actual\_recordnumber\_idx |
| egrn | oldnumbers\_actual | oldnumbers\_actual\_sys\_from\_idx |
| egrn | oldnumbers\_actual | pk\_egrn2\_oldnumbers\_actual |
| egrn | oldnumbers\_history | oldnumbers\_history\_sys\_to\_idx |
| egrn | oldnumbers\_history | pk\_egrn2\_oldnumbers\_history |
| egrn | parentlandcadnumber\_actual | parentlandcadnumber\_actual\_recordnumber\_idx |
| egrn | parentlandcadnumber\_actual | parentlandcadnumber\_actual\_sys\_from\_idx |
| egrn | parentlandcadnumber\_actual | pk\_egrn2\_parentlandcadnumber\_actual |
| egrn | parentlandcadnumber\_history | parentlandcadnumber\_history\_sys\_to\_idx |
| egrn | parentlandcadnumber\_history | pk\_egrn2\_parentlandcadnumber\_history |
| egrn | permisseduse\_actual | permisseduse\_actual\_recordnumber\_idx |
| egrn | permisseduse\_actual | permisseduse\_actual\_sys\_from\_idx |
| egrn | permisseduse\_actual | pk\_egrn2\_permisseduse\_actual |
| egrn | permisseduse\_history | permisseduse\_history\_sys\_to\_idx |
| egrn | permisseduse\_history | pk\_egrn2\_permisseduse\_history |
| egrn | propcost\_actual | pk\_egrn2\_propcost\_actual |
| egrn | propcost\_actual | propcost\_actual\_recordnumber\_idx |
| egrn | propcost\_actual | propcost\_actual\_sys\_from\_idx |
| egrn | propcost\_history | pk\_egrn2\_propcost\_history |
| egrn | propcost\_history | propcost\_history\_sys\_to\_idx |
| egrn | propcostdocs\_actual | pk\_egrn2\_propcostdocs\_actual |
| egrn | propcostdocs\_actual | propcostdocs\_actual\_sys\_from\_idx |
| egrn | propcostdocs\_history | pk\_egrn2\_propcostdocs\_history |
| egrn | propcostdocs\_history | propcostdocs\_history\_sys\_to\_idx |
| egrn | propertyinfo\_actual | pk\_egrn2\_propertyinfo\_actual |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_cityname\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_districtname\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_localityname\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_namesovietvill\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_recordnumber\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_regionvalue\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_sys\_from\_idx |
| egrn | propertyinfo\_actual | propertyinfo\_actual\_urbandistricname\_idx |
| egrn | propertyinfo\_history | pk\_egrn2\_propertyinfo\_history |
| egrn | propertyinfo\_history | propertyinfo\_history\_sys\_to\_idx |
| egrn | recomplexincludedcadnumbers\_actual | pk\_egrn2\_recomplexincludedcadnumbers\_actual |
| egrn | recomplexincludedcadnumbers\_actual | recomplexincludedcadnumbers\_actual\_sys\_from\_idx |
| egrn | recomplexincludedcadnumbers\_history | pk\_egrn2\_recomplexincludedcadnumbers\_history |
| egrn | recomplexincludedcadnumbers\_history | recomplexincludedcadnumbers\_history\_sys\_to\_idx |
| egrn | restrictedrightpartyanothertype\_actual | pk\_egrn2\_restrictedrightpartyanothertype\_actual |
| egrn | restrictedrightpartyanothertype\_actual | restrictedrightpartyanothertype\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartyanothertype\_history | pk\_egrn2\_restrictedrightpartyanothertype\_history |
| egrn | restrictedrightpartyanothertype\_history | restrictedrightpartyanothertype\_history\_sys\_to\_idx |
| egrn | restrictedrightpartyindividual\_actual | pk\_egrn2\_restrictedrightpartyindividual\_actual |
| egrn | restrictedrightpartyindividual\_actual | restrictedrightpartyindividual\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartyindividual\_history | pk\_egrn2\_restrictedrightpartyindividual\_history |
| egrn | restrictedrightpartyindividual\_history | restrictedrightpartyindividual\_history\_sys\_to\_idx |
| egrn | restrictedrightpartylegalentity\_actual | pk\_egrn2\_restrictedrightpartylegalentity\_actual |
| egrn | restrictedrightpartylegalentity\_actual | restrictedrightpartylegalentity\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartylegalentity\_history | pk\_egrn2\_restrictedrightpartylegalentity\_history |
| egrn | restrictedrightpartylegalentity\_history | restrictedrightpartylegalentity\_history\_sys\_to\_idx |
| egrn | restrictedrightpartypublicformation\_actual | pk\_egrn2\_restrictedrightpartypublicformation\_actual |
| egrn | restrictedrightpartypublicformation\_actual | restrictedrightpartypublicformation\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartypublicformation\_history | pk\_egrn2\_restrictedrightpartypublicformation\_history |
| egrn | restrictedrightpartypublicformation\_history | restrictedrightpartypublicformation\_history\_sys\_to\_idx |
| egrn | restrictedrightpartypublicservitude\_actual | pk\_egrn2\_restrictedrightpartypublicservitude\_actual |
| egrn | restrictedrightpartypublicservitude\_actual | restrictedrightpartypublicservitude\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartypublicservitude\_history | pk\_egrn2\_restrictedrightpartypublicservitude\_history |
| egrn | restrictedrightpartypublicservitude\_history | restrictedrightpartypublicservitude\_history\_sys\_to\_idx |
| egrn | restrictedrightpartyundefined\_actual | pk\_egrn2\_restrictedrightpartyundefined\_actual |
| egrn | restrictedrightpartyundefined\_actual | restrictedrightpartyundefined\_actual\_sys\_from\_idx |
| egrn | restrictedrightpartyundefined\_history | pk\_egrn2\_restrictedrightpartyundefined\_history |
| egrn | restrictedrightpartyundefined\_history | restrictedrightpartyundefined\_history\_sys\_to\_idx |
| egrn | restrictedrighttelephones\_actual | pk\_egrn\_restrictedrighttelephones\_actual |
| egrn | restrictedrighttelephones\_actual | restrictedrighttelephones\_actual\_sys\_from\_idx |
| egrn | restrictedrighttelephones\_history | pk\_egrn\_restrictedrighttelephones\_history |
| egrn | restrictedrighttelephones\_history | restrictedrighttelephones\_history\_sys\_to\_idx |
| egrn | restrictioninfo\_actual | restrictioninfo\_actual\_cadnumber\_idx |
| egrn | restrictioninfo\_actual | restrictioninfo\_actual\_pkey |
| egrn | restrictioninfo\_actual | restrictioninfo\_actual\_rightrestricregnum\_idx |
| egrn | restrictioninfo\_actual | restrictioninfo\_actual\_sys\_from\_idx |
| egrn | restrictioninfo\_history | restrictioninfo\_history\_pkey |
| egrn | restrictioninfo\_history | restrictioninfo\_history\_sys\_to\_idx |
| egrn | rightholderindividual\_actual | pk\_egrn2\_rightholderindividual\_actual |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_birthdate\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_divisioncode\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_docdate\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_docnumber\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_docseries\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_documentname\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_firstname\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_issuer\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_lastname\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_middlename\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_recordnumber\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_snils\_idx |
| egrn | rightholderindividual\_actual | rightholderindividual\_actual\_sys\_from\_idx |
| egrn | rightholderindividual\_history | pk\_egrn2\_rightholderindividual\_history |
| egrn | rightholderindividual\_history | rightholderindividual\_history\_sys\_to\_idx |
| egrn | rightholderlegalentity\_actual | pk\_egrn2\_rightholderlegalentity\_actual |
| egrn | rightholderlegalentity\_actual | rightholderlegalentity\_actual\_recordnumber\_idx |
| egrn | rightholderlegalentity\_actual | rightholderlegalentity\_actual\_sys\_from\_idx |
| egrn | rightholderlegalentity\_history | pk\_egrn2\_rightholderlegalentity\_history |
| egrn | rightholderlegalentity\_history | rightholderlegalentity\_history\_sys\_to\_idx |
| egrn | rightholderpublicformation\_actual | pk\_egrn2\_rightholderpublicformation\_actual |
| egrn | rightholderpublicformation\_actual | rightholderpublicformation\_actual\_sys\_from\_idx |
| egrn | rightholderpublicformation\_history | pk\_egrn2\_rightholderpublicformation\_history |
| egrn | rightholderpublicformation\_history | rightholderpublicformation\_history\_sys\_to\_idx |
| egrn | rightinfo\_actual | pk\_egrn2\_rightinfo\_actual |
| egrn | rightinfo\_actual | rightinfo\_actual\_cadnumber\_idx |
| egrn | rightinfo\_actual | rightinfo\_actual\_rightnumber\_idx |
| egrn | rightinfo\_actual | rightinfo\_actual\_sys\_from\_idx |
| egrn | rightinfo\_history | pk\_egrn2\_rightinfo\_history |
| egrn | rightinfo\_history | rightinfo\_history\_sys\_to\_idx |
| egrn | rightsharecadnumbers\_actual | pk\_egrn2\_rightsharecadnumbers\_actual |
| egrn | rightsharecadnumbers\_actual | rightsharecadnumbers\_actual\_sys\_from\_idx |
| egrn | rightsharecadnumbers\_history | pk\_egrn2\_rightsharecadnumbers\_history |
| egrn | rightsharecadnumbers\_history | rightsharecadnumbers\_history\_sys\_to\_idx |
| egrn | riunderlyingdocumentinfo\_actual | pk\_egrn\_riunderlyingdocumentinfo\_actual |
| egrn | riunderlyingdocumentinfo\_actual | riunderlyingdocumentinfo\_actual\_sys\_from\_idx |
| egrn | riunderlyingdocumentinfo\_history | pk\_egrn\_riunderlyingdocumentinfo\_history |
| egrn | riunderlyingdocumentinfo\_history | riunderlyingdocumentinfo\_history\_sys\_to\_idx |

Конкретных рекомендаций по созданию индексов предоставить не представляется возможным в виду различного строения баз данных и различия между запросами.

# ПРОИЗВОДИТЕЛЬНОСТЬ ЯДРА PROSTORE

Отдельно необходимо рассматривать производительность ключевого элемента витрины данных, а именно Ядра Prostore.

## Подключение к Ядру Prostore

Подключение к Ядру осуществляется при помощи драйвера. Для того что бы ваше тестирование было проведено наилучшим образом, рекомендуется всегда пользоваться последней актуальной версией JDBC драйвера (последняя версия драйвера доступа по ссылке <https://github.com/datamarts/prostore>). Так же для исключения проблем с производительностью на старых версиях дистрибутива, рекомендуется обновляться до последней версии компонентов и только потом запускать тестирование производительности Ядра.

## Количество соединений с СУБД

Для настройки пропускной способности Ядра Prostore и СУБД ADB используются несколько параметров, а именно:

# лимит подключений к ADB в одном потоке; лимит по всем потокам равен произведению poolSize и executorsCount

poolSize: ${ADB\_MAX\_POOL\_SIZE:3}

# количество одновременных потоков, исполняющих запросы к ADB

executorsCount: ${ADB\_EXECUTORS\_COUNT:3}

Как и указано в документации, параметры poolSize и executorsCount перемножаются между собой. Зависимость в создании потоков к СУБД снова сводится к количеству CPU на сервере. Давайте установим зависимость, у нас на сервере, где установлено ПО Ядра Prostore присутствует 48 ядер (см. Таблица 2).

План тестирования:

* калибровочный тест через ядро get\_delta\_ok() позволяет проверить производительность только Ядра, в СУБД данный запрос не уходит.
* меняем количество тредов на 28, 56 и 100, сверяем результаты.

Результаты запроса get\_delta\_ok(), 28 тредов (см. Рисунок 39, Рисунок 40).

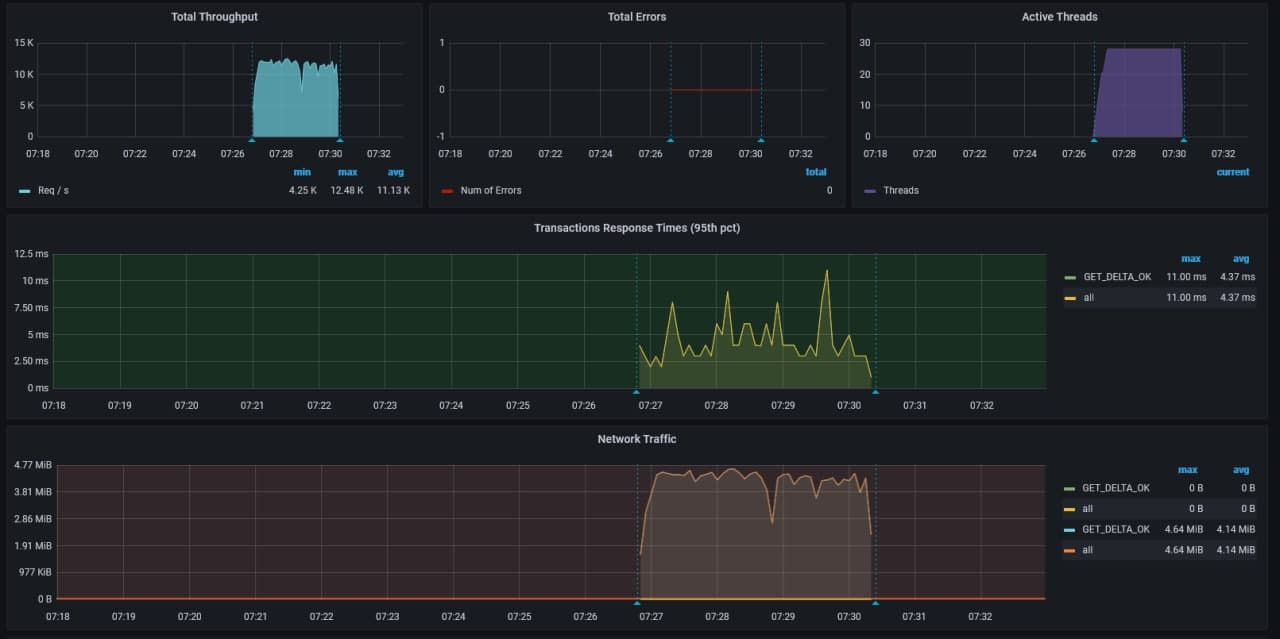


Рисунок 39 - 28 тредов



Рисунок 40 - 28 тредов

Результаты запроса get\_delta\_ok(), 56 тредов (см. Рисунок 41, Рисунок 42).

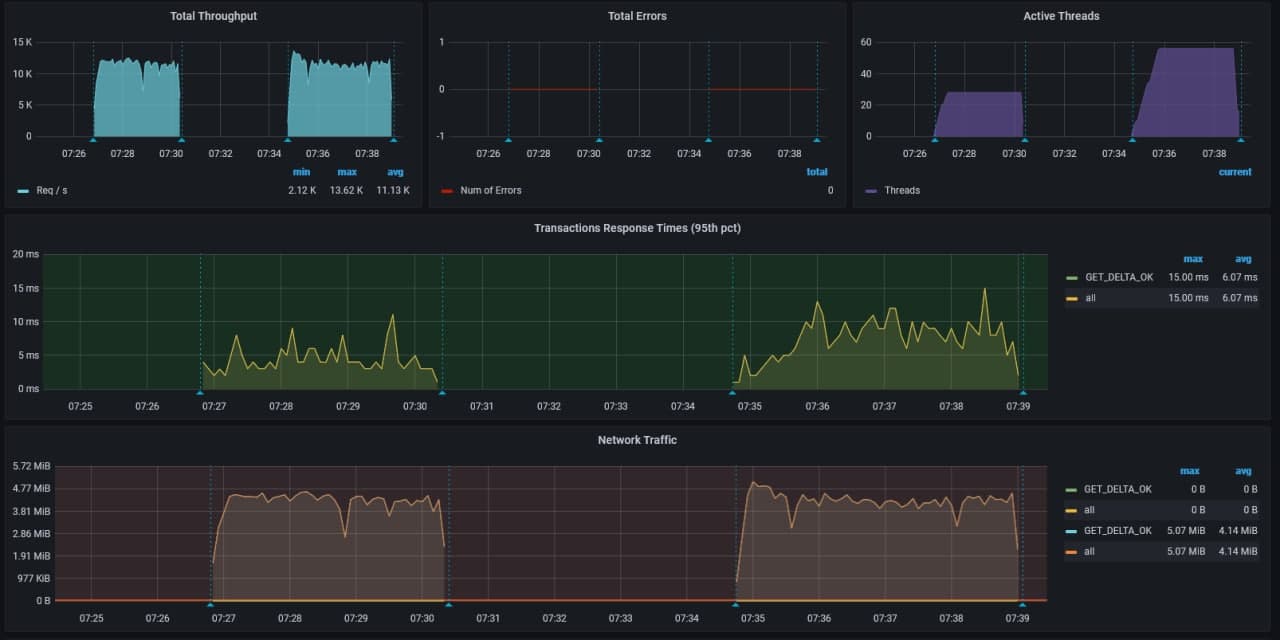


Рисунок 41 - 56 тредов



Рисунок 42 - 56 тредов

Результаты запроса get\_delta\_ok(), 56 тредов (см. Рисунок 43, Рисунок 44).

A screenshot of a computer

Description automatically generated with medium confidence

Рисунок 43 - 100 тредов

![Chart, line chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4S7GRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIyOjA0OjIxIDE2OjM4OjEwAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMwNQAAkpIAAgAAAAMwNQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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aX9q65/wBCjJ/4GRf/ABdH9ra5/wBCjJ/4GRf/ABdU3ups/wCtk/76NN+1Tf8APWT/AL6NHtJByovf2prh/wCZQk/8DIv/AIul/tLXf+hQk/8AAyL/AOLqh9qm/wCe0n/fRpGup/8AntJ/30aPaMOVGh/aeu/9ChJ/4GRf/F0f2prv/QoSf+BkX/xdZ63U/wDz2k/76NL9qn/57Sf99GhTYcqL/wDamu/9ChJ/4GRf/F0f2prn/QoSf+BkX/xdUPtU/wDz2k/76NMkup93+uk/76NVzsOVGj/auuf9CjJ/4GRf/F0n9ra3/wBCjJ/4GRf/ABdZv2qf/ntJ/wB9GlW6m/57Sf8AfRp8zDlRo/2trf8A0KMn/gZF/wDF0f2trf8A0KMn/gZF/wDF1nNdTf8APaT/AL6NC3U3/PaT/vo0uZhyo0f7W1v/AKFGT/wMi/8Ai6X+1Nc/6FGT/wADIv8A4us1rqb/AJ7Sf99Gk+1T/wDPaT/vo0uZhyo1oda16GZWXwgysM4c3cRx/wCPU3wdp1zpGgxQX0ItLpri5meEuG2h7iRxyD6MD+NZ8d3Pt/10n/fRrA8Ra5qVncFINQuoU8gttjmZRnnng1Mm2gty6o/Pb9r9Q37T3xD5Bxd2qnkdRY2wI/MGisv9qK4lufjt4olmkaWVpISzuxLH9zH1JoroWxytan//2Q==)

Рисунок 44 - 100 тредов

Сводная таблица по результатам тестирований (см. Таблица 7 - Сравнение результатов тестирования ядра), показывает наилучшие значения при количестве тредов равным 56 (poolSize = 8 и executorsCount = 7). Следовательно, зависимость от количества ядер примерно 1 к 1.2.

Таблица 7 - Сравнение результатов тестирования ядра

|  |  |
| --- | --- |
| Сценарий | Throughput |
| get\_delta\_ok(), 28 тредов | 11242.9/sec |
| get\_delta\_ok(), 56 тредов | 11371.1/sec |
| get\_delta\_ok(), 100 тредов | 10541.2/sec |

Рекомендуемые параметры poolSize и executorsCount зависят от количества ядер на сервере, соотношение должно быть на 1 ядро 2 потока, рекомендуется сначала повышать executorsCount, а затем poolSize. Для примера, если у вас на сервере 10 ядер CPU то poolSize устанавливаете в 2, а executorsCount устанавливаете в 10. Однако для определения наилучших показателей – рекомендуется проводить НТ с изменением указанных параметров для подбора оптимальных значений на вашей инфраструктуре.

# НАСТРОЙКА ПОДД АДАПТЕРА

Приведем типовую структуру файла и произведенные настройки ПОДД-адаптера. Следует учитывать, что в конфигурационном файле следует задавать только те настройки, которые необходимы для решения текущих бизнес-задач.

Пример файла application.yml.

*# Адрес сервера kafka для агента*

**.kafkaUrl: &kafkaUrl** dc2-nsud-ads-kafka1:9092,dc2-nsud-ads-kafka2:9092  
*# Адрес сервера kafka для простора*  
**.dtmKafkaUrl**: **&dtmKafkaUrl** dc2-nsud-ads-kafka1:9092,dc2-nsud-ads-kafka2:9092

**agent:**

**topic\_prefix:** 'egrn2.'

*# Секция* ***vertx*** *предназначена для настройки параметров фреймворка Vert.x. Подробнее на сайте разработчиков: https://vertx.io/docs/)*  
**vertx**:  
 *# Вкл/выкл vertx в кластере*  
 **clustered**: false  
 **pool**:  
 *# Размер пула потоков для vertx воркеров*  
 **workerPool**: 10  
 *# Размер пула потоков для event loop*  
 **eventLoopPool**: 20  
 *# Размер пула потоков для обработки query запросов*  
 **queryPool**: 20  
 *# Размер пула вызовов через JDBC*  
 **dtmPool**: 10

*# Секция* ***verticle*** *предназначена**для**настройки количества потоков (verticle) и функций (worker);***verticle**:  
 **query-request**:  
 *# Количество вертиклов для обработки query запросов(опрос кафки)*  
 **instances**: 1  
 **query-response**:  
 *# Количество вертиклов для обработки query ответов(отправка сообщений в кафку)*  
 **instances**: 1  
 **worker**:  
 **statistics-send-worker**:  
 *# Имя*  
 **poolName**: statistics-send-pool  
 **config**:  
 *# Колонки для статистики*  
 **datamartColumns**: demo.transport.vin,demo.transport.vin2  
 *# Вкл/выкл отправку статистики*  
 **enabled**: false  
 *# Частота обновления статистики*  
 **refreshPeriodMinutes**: 60

*# Секция* ***environment*** *предназначена**для**настройки параметров окружения.*  
**environment**:  
 *# Название окружения (test, prod и т.д.)*  
 **name**: test  
 *# Начальное значение дельты.*  
 **startDeltaNum**: 0

*# Секция* ***cache*** *предназначена**для**настройки кеширования*  
**cache**: *# Размер кэша*  
 **initialCapacity**: 100000  
 *# Максимальный размер кэша*  
 **maximumSize**: 100000  
 *# Время жизни записи в кэше*  
 **expireAfterAccessMinites**: 100000

*# Секция* ***dtm*** *предназначена**для**настройки подключения к серверу и базе данных ProStore*  
**dtm**:  
 **datasource**:  
 *# Подключение к ядру ADTM*  
 **host**: 10.xx.xx.xx  
 *# Порт ядра ADTM*  
 **port**: 9090  
 *# Размер выгрузки через JDBC*  
 **fetchSize**: 1000  
 *# Размер пула JDBC*  
 **maxPoolSize**: 5  
 *# Ограничение выгрузки через LIMIT, FETCH*  
 **llrRowsLimit**: 1000000  
 *# Количество одновременных подключений JDBC*  
 **count**: 8  
 *# Количество одновременных подключений JDBC*  
 **subprotocol**: adtm  
 *# Количество одновременных подключений JDBC*  
 **driverClassName**: io.arenadata.dtm.jdbc.DtmDriver

*# Секция* ***adb*** *предназначена для настройки подключения к серверу и базе данных ADB.***adb**:  
 *# Подключение к ADB*  
 **host**: 10.xx.xx.xx  
 *# ADB порт*  
 **port**: 5432  
 *# ADB имя пользователя*  
 **user**: gpadmin  
 *# ADB пароль пользователя*  
 **password**: gpadmin  
 *# ADB база данных*  
 **database**: adb  
 *# Размер пула подключения к ADB*  
 **maxSize**: 30

*# Секция* ***subscription*** *предназначена для настройки подписки на репликацию данных***subscription**:  
 **zookeeper**:  
 *# Подключение в Zookeeper DS*  
 **connection-string**: dc2-nsud-ads-zookeeper1,dc2-nsud-ads-zookeeper2,dc2-nsud-ads-zookeeper3  
 *# Zookeeper DS таймаут подключения*  
 **connection-timeout-ms**: 30000  
 *# Zookeeper DS таймаут сессии*  
 **session-timeout-ms**: 86400000  
 *# Zookeeper DS chroot path*  
 **chroot**: "/adapter"

*# Секция* ***client*** *предназначена**для**настройки взаимодействия с ПОДД-адаптер для получения входящих и исходящих запросов (между Поставщиком данных (producer) и Получателем данных (consumer))*  
**client**:  
 **kafka**:  
 *# Максимальный размер сообщения для kafka*  
 **max-message-size**: 1048576  
 *# Вкл/выкл автоматическое удаление топика для выгрузки данных из кафки*  
 **delete-external-topic**: false  
 **cluster**:  
 *# Подключение к Zookeeper PODD*  
 **zookeeperHosts**: dc2-nsud-ads-zookeeper1,dc2-nsud-ads-zookeeper2,dc2-nsud-ads-zookeeper3  
 *# Zookeeper chroot path PODD*  
 **rootPath**: /arenadata/cluster/8  
 **port**: 2181  
 **dtm-cluster**:  
 *# Подключение к Zookeeper DTM*  
 **zookeeperHosts**: zookeeperHosts: dc2-nsud-ads-zookeeper1,dc2-nsud-ads-zookeeper2,dc2-nsud-ads-zookeeper3  
 *# Zookeeper chroot path DTM*  
 **rootPath**: /DTM  
 **port**: 2181  
 **query**:  
 *# Топик kafka для уведомлений о расчете выполнения запросов*  
 **estimateTopicName**: ${agent.topic\_prefix}query.estimation.rs  
 *# Топик kafka для уведомлений о наличии блока tableParams*  
 **tableParamsTopicName**: tp.delete.tmp  
 *# настройки обработки mppr запросов*  
 **mpprBehaviour**:  
 *# тип обработки: 'execute' - обработка подд адаптером, 'delegate' - отправка обработки другому сервису*  
 **type**: delegate  
 *# топик, в который будет отправлен mppr запрос, если type='delegate'*  
 **delegateTopic**: mppr.delegate.rq  
 *# таймаут на передачу сообщений по внутренней очереди в миллисекундах*  
 **transferTimeout**: 1000  
 **consumer**:  
 *# Топик kafka для обработки query запросов*  
 **rqTopicName**: ${agent.topic\_prefix}query.rq  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: query.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **producer**:  
 *# Топик kafka для query ответов*  
 **rsTopicName**: ${agent.topic\_prefix}query.rs  
 *# Топик kafka для query ошибок*  
 **errTopicName**: ${agent.topic\_prefix}query.err  
 **topic-X-property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*dtmKafkaUrl  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# GroupId для подписчика*  
 **group.id**: query.consumer  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **cancel-query**:  
 **consumer**:  
 *# Топик kafka для обработки отмены запросов*  
 **rqTopicName**: ${agent.topic\_prefix}cancel.rq  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: cancel.query.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **producer**:  
 *# Топик kafka для ответов отмены запроса*  
 **rsTopicName**: ${agent.topic\_prefix}cancel.rs  
 *# Топик kafka для ошибок отмены запроса*  
 **errTopicName**: ${agent.topic\_prefix}cancel.err  
 **metadata**:  
 **consumer**:  
 *# Топик kafka для обработки получения метаданных*  
 **rqTopicName**: metadata.rq  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: metadata.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **producer**:  
 *# Топик kafka для ответов получения метаданных*  
 **rsTopicName**: metadata.rs  
 *# Топик kafka для ошибок получения метаданных*  
 **errTopicName**: metadata.err  
 **metadata-newdata**:  
 **consumer**:  
 **rqTopicName**: metadata.newdata  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: metadata.newdata.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **producer**:  
 **rsTopicName**: metadata.newdata.rs  
 **errTopicName**: metadata.newdata.err  
 **statistics**:  
 **consumer**:  
 *# Топик kafka для запроса на статистику*  
 **rqTopicName**: ${agent.topic\_prefix}statistics.rq  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: statistics.rq.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: false  
 **producer**:  
 *# Топик kafka для ответов на статистику*  
 **rsTopicName**: ${agent.topic\_prefix}statistics.rs  
 *# Топик kafka для ошибок на статистику*  
 **errTopicName**: ${agent.topic\_prefix}statistics.err  
 **topic-s**:  
 **rqTopicName**: status.event  
 **property**:  
 **bootstrap.servers**: \*dtmKafkaUrl  
 **group.id**: status.event.consumer  
 **enable.auto.commit**: true  
 **report**:  
 **consumer**:  
 *# Топик kafka для запроса на отчет*  
 **rqTopicName**: ${agent.topic\_prefix}procedure.query.rq  
 **property**:  
 *# Адрес сервера kafka*  
 **bootstrap.servers**: \*kafkaUrl  
 *# GroupId для подписчика*  
 **group.id**: report.rq.consumer  
 *# Смещение при первом запуске приложения*  
 **auto.offset.reset**: earliest  
 *# Вкл/выкл автоматический коммит*  
 **enable.auto.commit**: true  
 **producer**:  
 *# Топик kafka для ответов отчетов*  
 **rsTopicName**: ${agent.topic\_prefix}query.rs  
 *# Топик kafka для ошибок отчетов*  
 **errTopicName**: ${agent.topic\_prefix}query.err  
 **base-producer-property**:  
 **bootstrap.servers**: \*kafkaUrl  
 **base-consumer-property**:  
 **bootstrap.servers**: \*kafkaUrl  
 **dtm-base-producer-property**:  
 **bootstrap.servers**: \*dtmKafkaUrl  
 **dtm-base-consumer-property**:  
 **bootstrap.servers**: \*dtmKafkaUrl  
  
**http**:  
 *# Порт для запуска http сервера*  
 **port**: 8083  
  
*# Сервис печатных форм*  
**printable-forms-service**:  
 *# Адрес сервера печатных форм*  
 **host**: localhost  
 *# Порт сервера печатных форм*  
 **port**: 8089  
 *# Базовый http путь для запросов*  
 **baseUri**: /report  
 *# Вкл/выкл ssl*  
 **ssl**: false

*# Секция* ***logging*** *предназначена для настройки сохранения лог-файла.*  
**logging**:  
 **level**:  
 **io.arenadata.dtm**: DEBUG  
 **ru.itone.datamart.podd.adapter**: DEBUG

Параметры, напрямую влияющие на производительность адаптера ПОДД:

1. Размер пула JDBC (maxPoolSize)
2. Количество одновременных подключений JDBC (count)

Перемножение данных параметров должно соответствовать перемножению параметров ядра Prostore poolSize и executorsCount при учете одного адаптера.

Параметры, влияющие на пропускную способность адаптера ПОДД:

1. Размер пула потоков для vertx воркеров (workerPool)
2. Размер пула потоков для event loop (eventLoopPool)
3. Размер пула потоков для обработки query запросов (queryPool)
4. Размер пула вызовов через JDBC (dtmPool)

Увеличение параметров, влияющих на пропускную способность адаптера ПОДД, работает только на более мощной инфраструктуре. Рекомендуется масштабировать количество адаптеров ПОДД и количество партиций в Kafka по мере необходимости на основе результатов нагрузочного тестирования с учётом полученной максимальной производительности и наиболее оптимальных параметров применительно к вашей инфраструктуре.

# НАСТРОЙКА АГЕНТА ПОДД

В рамках настройки конфигурации Агента ПОДД были установлены следующие параметры конфигурации.

# Настройки логирования

logging.level:

  root: warn

  ru.rtlabs: warn

  org.apache.kafka: warn

  ru.rtlabs.smev: info

  # Лог получения токенов для Pulsar

  ru.rtlabs.transport.pulsar.auth: warn

  # Лог подписи и проверки подписи сообщений Pulsar

  ru.rtlabs.signature.signer.simple: warn

  # Лог балансировки сообщений

  ru.rtlabs.transport.pulsar.producer.client: warn

  ru.rtlabs.einfahrt.restapi.smev.push: warn

# Общие настройки агента

agent:

  # Идентификатор агента

  id: \*\*\* ИДЕНТИФИКАТОР АГЕНТА \*\*\*

  ogrn: '\*\*\* ОГРН АГЕНТА \*\*\*'

# Общие настройки витрины

datamart:

  # признак взаимодействия агента с витриной (true - интеграция включена, false - только REST-интерфейс)

  enabled: true

  # признак витрины, указывающий на нумерацию чанков с 0

  zero-base-chunk-num: false

# Настройки регистрации витрин

datamart-registration:

  # Список витрин для регистрации. Можно задать пустой список []

  datamarts:

    - id: \*\*\* ИДЕНТИФИКАТОР ВИТРИНЫ \*\*\*

      # Способ получения профиля витрины, предустановленный профиль из локального файла,

      #  либо запросом к витрине [DEFINED\_PROFILE | DATAMART\_REQUEST]

      registrationFlow: DEFINED\_PROFILE

      # Предустановленный профиль

      definedProfile: datamart\_profile/postgresql.json

# Настройки подключения к Kafka

kafka:

  consumer:

    property:

      bootstrap.servers: \*\*\* АДРЕС KAFKA \*\*\*

      group.id: ${agent.id}

      max.poll.interval.ms: 900000

  producer:

    property:

      bootstrap.servers: \*\*\* АДРЕС KAFKA \*\*\*

      max.request.size: 4194304

      linger.ms: 10

      acks: 1

      max.in.flight.requests.per.connection: 100

  admin:

    property:

      bootstrap.servers: \*\*\* АДРЕС KAFKA \*\*\*

# Настройки подключения к Pulsar

pulsar:

  client:

    serviceUrl: pulsar://213.59.255.147:6650

  consumer:

    # Имя подписки, также используется при формировании имени DLQ топика

    subscriptionName: ${agent.id}

  producer:

    maxPendingMessages: 10000

    blockIfQueueFull: false

  # Авторизация в Pulsar c помощью JWT

  auth:

    # Включение авторизации

    enabled: true

    # Путь к статичному JWT используемому для авторизации, если не указан, JWT запрашивается у Keycloak

    service-token: ''

    # Подключение и авторизация в Keycloak для получения JWT

    keycloak-connection:

      tls-verify-hostname: false

      tls-trust-store:

        path: \*\*\* /ПУТЬ/К/cp\_ca\_store \*\*\*

        password: 1RCK50

      tls-key:

        alias: \*\*\* ИДЕНТИФИКАТОР КЛЮЧА CryptoPro \*\*\*

        password: \*\*\* ПАРОЛЬ КЛЮЧА CryptoPro \*\*\*

    keycloak-oauth:

      realm: pulsar

      auth-server-url: https://213.59.255.147/keycloak/auth

      grant\_type: client\_credentials

      client\_id: ${agent.id}

    # Кэширование JWT в соответствии с временем его действия

    cached-token-max-expiration-lag: 5s

# Настройки подключения ко всем ЦОД с установленным ПО ядра

data-center:

  # Настройки дедублирования

  dedupe:

    enabled: true

    # Путь к БД журнала идентификаторов дублей

    rocksDbPath: ${java.io.tmpdir}/einfahrt\_${agent.id}\_rocks\_db

    # Время жизни записи в журнале идентификаторов дублей

    ttlInSeconds: 300

  ##### Настройки инфраструктуры открытых ключей для связи с ядром ПОДД.

  signature:

    #### Настройки подписывания.

    # Требуем верификации входящих сообщений.

    incoming-verification-enabled: true

    # Подписываем исходящие сообщения.

    outgoing-signing-enabled: true

    #### Настройки хранилища ключей.

    ### Варианты библиотек шифрования:

    ## BKS -- несертифицированная библиотека для использования при разработке

    #    Обязательные параметры в разделе настроек хранилища ключей:

    #      - keystoreFile

    #      - keystorePass

    #      - privateKeyAlias

    #      - privateKeyPass

    ## NATIVE -- Native-доступ к библиотеке КриптоПро СSP

    #    Требует продукт КриптоПро CSP. Продукт должен быть установлен в системе (в образе Агента) и лицензирован.

    #    Обязательные параметры в разделе настроек хранилища ключей:

    #      - privateKeyAlias

    #      - privateKeyPass

    ## SCHLOUSSLER -- сопутствующий Агенту сервис для подписания, настраивается отдельно.

    #    Требует настройки сервиса Schloussler.

    #    Обязательные параметры в разделе настроек хранилища ключей:

    #      - keystorefile -- в этом варианте URL для подключения к сервису Schloussler

    #      - private-key-alias -- в этом варианте мнемоника участника взаимодействия, опциональный параметр.

    ## JCSP -- библиотека КриптоПро Java CSP

    #    Требует продукт КриптоПро Java CSP. Продукт должен быть установлен в системе (в образе Агента) и лицензирован.

    #    Обязательные параметры в разделе настроек хранилища ключей:

    #      - privateKeyAlias

    #      - privateKeyPass

    #      - certificateAlias

    ## JCP -- библиотека КриптоПро JSP

    #    Требует продукт КриптоПро JSP. Продукт должен быть установлен в системе (в образе Агента) и лицензирован.

    #    Обязательные параметры в разделе настроек хранилища ключей:

    #      - privateKeyAlias

    #      - privateKeyPass

    #      - certificateAlias

    keystore-type: NATIVE

    # Идентификатор алгоритма подписи.

    # На боевом сервере для ключей, сгенерированных по ГОСТ 34.10-2012, следует использовать значение

    # GOST3411\_2012\_256withGOST3410\_2012\_256

    signature-algorithm: GOST3411\_2012\_256withGOST3410\_2012\_256

    ### Название сертификата. Используется в Java CSP и JSP.

    certificate-alias: ${pulsar.auth.keycloak-connection.tls-key.alias}

    ### Название приватного ключа.

    private-key-alias: ${pulsar.auth.keycloak-connection.tls-key.alias}

    ### Пароль к приватному ключу.

    private-key-pass: ${pulsar.auth.keycloak-connection.tls-key.password}

    additional-properties:

      certificateCache: true

  # Топики получения сообщений из ядра (Ядро -> Агент)

  core2agent-consumers:

    # Топик одноадресной отправки

    - topic: persistent://${agent.id}/core2agent/any

      handle-job-count: 10000

    # Топик широковещательной рассылки

    - topic: persistent://core\_broadcast/core2agent/any

      handle-job-count: 2

      # Признак топика с сервисными сообщениями, которые можно пропустить и читать сообщения с момента подключения

      serviceTopic: true

  # Конфигурация ядер

  nodes:

    - node-id: NODE1

      # Настройки подключения к Pulsar

      pulsar:

        # Включение Round-Robin балансировки по спику брокеров

        enable-balancing: true

        # Максимально допустимое время передачи сообщения одному из брокеров

        send-timeout: 5s

        # Длительность периода вывода брокеров из пула, при его недоступности

        max-dismissal-delay: 5s

        # Список подключений к брокерам

        clients:

          - serviceUrl: pulsar://213.59.255.147:6650

        consumer:

          subscriptionName: ${pulsar.consumer.subscriptionName}

        producer:

          maxPendingMessages: 10000

          blockIfQueueFull: false

        auth:

          enabled: ${pulsar.auth.enabled}

          service-token: ${pulsar.auth.service-token}

          keycloak-connection:

            tls-verify-hostname: ${pulsar.auth.keycloak-connection.tls-verify-hostname}

            tls-trust-store:

              path: ${pulsar.auth.keycloak-connection.tls-trust-store.path}

              password: ${pulsar.auth.keycloak-connection.tls-trust-store.password}

            tls-key:

              alias: ${pulsar.auth.keycloak-connection.tls-key.alias}

              password: ${pulsar.auth.keycloak-connection.tls-key.password}

          keycloak-oauth:

            realm: ${pulsar.auth.keycloak-oauth.realm}

            auth-server-url: https://213.59.255.147/keycloak/auth

            grant\_type: ${pulsar.auth.keycloak-oauth.grant\_type}

            client\_id: ${pulsar.auth.keycloak-oauth.client\_id}

          cached-token-max-expiration-lag: ${pulsar.auth.cached-token-max-expiration-lag}

      # Пул потоков для обработчиков принимающих сообщения из ядра

      consumer-pool:

        # Размер пула

        size: 20

        # Таймаут на блокировку потока, не прерывает поток, пишет предупреждения в лог

        execution-lock-timeout: 1M

      # Пул потоков для обработчиков отправляющих сообщения в ядро

      producer-pool:

        # Размер пула

        size: 20

        # Таймаут на блокировку потока, не прерывает поток, пишет предупреждения в лог

        execution-lock-timeout: 1M

#    - node-id: NODE2

#      # Настройки подключения к Pulsar

#      pulsar:

#        # Включение Round-Robin балансировки по спику брокеров

#        enable-balancing: true

#        # Максимально допустимое время передачи сообщения одному из брокеров

#        send-timeout: 5s

#        # Длительность периода вывода брокеров из пула, при его недоступности

#        max-dismissal-delay: 5s

#        # Список подключений к брокерам

#        clients:

#          - serviceUrl: pulsar://213.59.255.147:6650

#        consumer:

#          subscriptionName: ${pulsar.consumer.subscriptionName}

#        producer:

#          maxPendingMessages: 10000

#          blockIfQueueFull: false

#        auth:

#          enabled: ${pulsar.auth.enabled}

#          service-token: ${pulsar.auth.service-token}

#          keycloak-connection:

#            tls-verify-hostname: ${pulsar.auth.keycloak-connection.tls-verify-hostname}

#            tls-trust-store:

#              path: ${pulsar.auth.keycloak-connection.tls-trust-store.path}

#              password: ${pulsar.auth.keycloak-connection.tls-trust-store.password}

#            tls-key:

#              alias: ${pulsar.auth.keycloak-connection.tls-key.alias}

#              password: ${pulsar.auth.keycloak-connection.tls-key.password}

#          keycloak-oauth:

#            realm: ${pulsar.auth.keycloak-oauth.realm}

#            auth-server-url: https://213.59.255.147/keycloak/auth

#            grant\_type: ${pulsar.auth.keycloak-oauth.grant\_type}

#            client\_id: ${pulsar.auth.keycloak-oauth.client\_id}

#          cached-token-max-expiration-lag: ${pulsar.auth.cached-token-max-expiration-lag}

#      # Пул потоков для обработчиков принимающих сообщения из ядра

#      consumer-pool:

#        # Размер пула

#        size: 20

#        # Таймаут на блокировку потока, не прерывает поток, пишет предупреждения в лог

#        execution-lock-timeout: 1M

#      # Пул потоков для обработчиков отправляющих сообщения в ядро

#      producer-pool:

#        # Размер пула

#        size: 20

#        # Таймаут на блокировку потока, не прерывает поток, пишет предупреждения в лог

#        execution-lock-timeout: 1M

# Настройки модуля репликации

replication:

  # Топик передачи данных по репликации (Агент -> Ядро)

  agent2core-replication-common-topic: persistent://MNSV48\_3S/agent2core/replication-pooled-@@agentConsumerId

# Настройки RSocket сервера исполнения SQL запросов (подключение JDBC драйвером)

query-server:

  host: 0.0.0.0

  port: 8183

  transport: WEBSOCKET

  resume-stream-timeout: 30s

  resume-session-duration: 30s

# Настройки REST сервера (отправка тестовых запросов в СМЭВ, служебные Web-Hook'и)

http:

  port: 8182

# Настройки REST сервера исполнения SQL запросов

rest-query-endpoint:

  host: 0.0.0.0

  port: 8192

  async-sql-query-storage-timeout: 15m

  hideInternalErrorMessage: false

  mapInternalErrorToBadRequest: false

  # Размер буфера для сортировки чанков результата исполнения

  chunkReorderMaxBufferSize: 1000

  # Ограничение размера массива для бинарных данных в результате исполнения SQL

  byteArraySizeLimit: 10MB

  # Размер чанка пользовательского табличного параметра

  tableParamChunkSize: 900KB

  # Способ разбиения пользовательского табличного параметра на чанки

  tableParamChunkType: EXACTLY\_CUT

# Настройки модуля обработки SQL подзапросов из ядра ПОДД к витрине данных

sub-query:

  # Управление кол-вом SQL подзапросов одновременно исполняемых на витрине

  priority:

    # Общее макс количество одновременных подзапросов (c любым приоритетом) исполняемых на витрине (0 - без ограничений)

    max-parallel-queries: 10000

    # Макс размер очереди ожидающих подзапросов, старейший запрос удаляется при превышении

    waiting-queue-size: 1000

  # Настройки получения от витрины результата исполнения SQL подзапроса и отправки его в ядро

  result:

    # Количество job отправки сообщений в ядро

    send-result-job-count: 1000

# Настройки модуля обработки SQL запросов отправляемых в ядро ПОДД

query:

  # Топик передачи данных по SQL запросам (Агент -> Ядро)

  agent2core-query-topic: persistent://MNSV48\_3S/agent2core/query-pooled-@@agentConsumerId

  # Топик предварительной оценки подзапроса (Агент -> Ядро)

  agent2core-query-estimation-topic: persistent://MNSV48\_3S/agent2core/query-estimations

  # Настройки получения BLOB по ссылке

  load-reference-data:

    blob-source: DATAMART

    # Настройки подключения к хранилищу S3

    s3-storage:

      endpoint: http://minio:9000/

      # Путь к файлу с данными для авторизации

      pathToCredentialFile: /egov/java/creds/s3\_creds.properties

# Настройки модуля сбора Статистики

statistic:

  # Топик данных со статистикой (Агент -> Ядро)

  agent2core-statistics-topic: persistent://MNSV48\_3S/agent2core/service-any

# Конфиг модуля регистрации профиля витрины в ядре

datamart-profile:

  # Топик профиля витрины (Агент -> Ядро)

  agent2core-datamart-profile-topic: persistent://MNSV48\_3S/agent2core/service-any

# Настройка модуля по работе со спецификациями OpenAPI

open-api:

  # Топик запросов списка спецификаций OpenAPI (Агент -> Ядро)

  agent2core-openapi-restore-specs-topic: persistent://MNSV48\_3S/agent2core/service-any

# Настройка модуля хранения метаданных

metadata:

  # Топик запросов всех метаданных для агента (Агент -> Ядро)

  agent2core-request-all-metadata-topic: persistent://MNSV48\_3S/agent2core/service-any

# Настройка модуля API gateway

api-gateway:

  # Параметры HTTP-сервера для приёма запросов на стороне потребителя

  server:

    host: 0.0.0.0

    port: 8171

  # Параметры HTTP-клиента для отправки запросов на стороне поставщика

  client:

    host: \*\*\* hostname api-gateway ВИТРИНЫ \*\*\*

    port: 1234

  # Топик передачи ответов на API gateway запросы

  agent2core-api-gateway-topic: persistent://MNSV48\_3S/agent2core/query-pooled-@@agentConsumerId

  # размер чанка для отправки в ядро

  result-chunk-size: 921600

  # Размер буфера для сортировки чанков результата исполнения

  chunk-reorder-max-buffer-size: 1000

# Настройки модуля HealthCheck

healthcheck:

  enabled: false

  # Имя сервиса

  serviceName: einfahrt

monitoring:

  port: 1234

  path: /metrics

  elastic-servers:

    podd:

      url: http://elastic:9200

      lag-time: 10s

      filter: 'kubernetes.container\_name:"einfahrt-fias"'

  metrics:

tracing:

  serviceName: einfahrt-fias

  enabled: false

  collector-endpoint: http://jaeger-collector:14268/api/traces

  redis:

    endpoint: redis://redis

    max-pool-size: 10

    max-pool-waiting: 10000

  requestIdModuloFilter: 10000

metrics:

  implementation: PROMETHEUS

  endpointPort: 8381

  endpointPath: /metrics

# Настройки модуля "информация об агенте"

agent-info:

  revision-file-name: einfahrt

  # Топик для передачи служебной информации об агенте в ядро (Агент -> Ядро)

  agent2core-agent-info-topic: persistent://MNSV48\_3S/agent2core/service-any

# Настройки модуля извещений о блокировке

block-notification:

  # Как определить момент окончания блокировки?

  # По умолчанию считаем, что часы Агента и Ядра ПОДД синхронизированы,

  # и используем время окончания блокировки в уведомлении.

  #

  # Альтернативный вариант -- отсчитываем период блокировки от момента получения

  # уведомления о блокировке агентом.

  use-period-for-block-expiration: false

# Настройки модуля подписания печатных форм

printable-form:

  signature:

    printable-form-keys:

#      -

#        keystoreType: JCP

#        certificate-alias: 'Витрины НСУД Росреестра 2020'

#        private-key-alias: 'Витрины НСУД Росреестра 2020'

#        private-key-pass: 'D8h(aTr5'

#        signatureAlgorithm: GOST3411\_2012\_256withGOST3410\_2012\_256

#        signatureURI: urn:ietf:params:xml:ns:cpxmlsec:algorithms:gostr34102012-gostr34112012-256

#        digestMethod: http://www.w3.org/2001/04/xmldsig-more#gostr3411

#        useSmevTransform: false

#Пары значения "имя\_печатной\_формы": "алиас сертификата"

  forms:

    v1\_printable\_form\_address: pform

    v1\_other\_printable\_form\_address: pform2

# адреса ntp серверов

ntp:

  servers:

    - host: 213.59.255.147

#    - host: 1.ru.pool.ntp.org

#    - host: 2.ru.pool.ntp.org

cls:

  topic-name: persistent://MNSV48\_3S/logging/events

Рассмотрим параметры влияющие на производительность агента ПОДД:  
# Пул потоков для обработчиков принимающих сообщения из ядра

consumer-pool:

# Размер пула

size: 4

# Пул потоков для обработчиков отправляющих сообщения в ядро

producer-pool:

# Размер пула

size: 4

Размер пула потоков напрямую влияет на скорость приема и передачи данных от ядра ПОДД в витрину, увеличивать пул имеет смысл только тогда когда ресурсы сервера позволяют, расчёт пула можно привести к следующему, на 1 ядро = 2 потока, т. е. при 10 ядрах будет 20 потоков. Для витрины Росреестр 20 потоков вполне хватило что бы обеспечить оптимальную производительность прочих компонентов витрины.

# Ограничение размера массива для бинарных данных в результате исполнения SQL

byteArraySizeLimit: 10MB   
Данный параметр имеет смысл увеличивать если вы собираетесь передавать бинарные данные через REST интерфейс большего размера.

# Размер чанка пользовательского табличного параметра

tableParamChunkSize: 900KB

# Способ разбиения пользовательского табличного параметра на чанки

tableParamChunkType: EXACTLY\_CUT

Для настройки разбиения получаемой информации на чанки для JDBC драйвера необходимо добавить в свойства драйвера параметр tableParamChunkType, который может принимать значения:

* EXACTLY\_CUT – позволяет разбивать информацию на чанки исходя из размера чанка (размер чанка указывается дополнительным свойством в настройках драйвера tableParamChunkSize, пример tableParamChunkSize =100KB);
* EVEN\_ROWS – запрещает разбиение информации между чанками (автономно десериализуемые чанки), не гарантируется соблюдение размера чанка.

# ОБЗОР ЛОГОВ И ПРИМЕРЫ ОШИБОК

В данном пункте документа рассмотрено строение логов Ядра Prostore и часто встречающиеся ошибки при настройке компонентов витрины данных.

Структура логов состоит из нескольких переменных, пример логов и описание переменных представлены ниже.

Пример логов:

{"timestamp":"2022-01-25 11:52:42,930",

"logger":"io.arenadata.dtm.query.execution.core.query.controller.QueryController",

"level":"INFO",

"thread":"vert.x-eventloop-thread-6",

"message":"Execution request sent: [InputQueryRequest(requestId=cd776627-2c67-42f6-9dc3-68b4508f4c2b, datamartMnemonic=, sql=SELECT t5.childcarspacecadnumber AS \"egrn\_childcarspacecadnumbers\_childcarspacecadnumber\", t0.cadvalcalculationdate AS \"egrn\_propertyinfo\_cadvalcalculationdate\", t0.currentcadastralvalue AS \"egrn\_propertyinfo\_currentcadastralvalue\", t0.floorscount AS \"egrn\_propertyinfo\_floorscount\", t0.propareavalue AS \"egrn\_propertyinfo\_propareavalue\", t0.level1type AS \"egrn\_propertyinfo\_level1type\", t0.typecode AS \"egrn\_propertyinfo\_typecode\", t0.regionvalue AS \"egrn\_propertyinfo\_regionvalue\", t0.apartmenttype AS \"egrn\_propertyinfo\_apartmenttype\", t0.proparea AS \"egrn\_propertyinfo\_proparea\", t0.apartmentname AS \"egrn\_propertyinfo\_apartmentname\", t0.propyearblt AS \"egrn\_propertyinfo\_propyearblt\", t0.propoccdpth AS \"egrn\_propertyinfo\_propoccdpth\", t0.parentroomcadnumber AS \"egrn\_propertyinfo\_parentroomcadnumber\", t0.cadnumber AS \"egrn\_propertyinfo\_cadnumber\", t0.level3name AS \"egrn\_propertyinfo\_level3name\", t0.level3type AS \"egrn\_propertyinfo\_level3type\", t0.propbltuparea AS \"egrn\_propertyinfo\_propbltuparea\", t0.propdpth AS \"egrn\_propertyinfo\_propdpth\", t0.landcategoryvalue AS \"egrn\_propertyinfo\_landcategoryvalue\", t0.permisseduselandvalue AS \"egrn\_propertyinfo\_permisseduselandvalue\", t0.propext AS \"egrn\_propertyinfo\_propext\", t0.readableaddress AS \"egrn\_propertyinfo\_readableaddress\", t0.propname AS \"egrn\_propertyinfo\_propname\", t0.landareatypevalue AS \"egrn\_propertyinfo\_landareatypevalue\", t0.landareavalue AS \"egrn\_propertyinfo\_landareavalue\", t0.canceldate AS \"egrn\_propertyinfo\_canceldate\", t0.landcategorytype AS \"egrn\_propertyinfo\_landcategorytype\", t0.roomtypevalue AS \"egrn\_propertyinfo\_roomtypevalue\", t0.parentcadnumber AS \"egrn\_propertyinfo\_parentcadnumber\", t0.propertytypevalue AS \"egrn\_propertyinfo\_propertytypevalue\", t0.registrationdate AS \"egrn\_propertyinfo\_registrationdate\", t0.prophght AS \"egrn\_propertyinfo\_prophght\", t0.roompurposevalue AS \"egrn\_propertyinfo\_roompurposevalue\", t0.propyearcom AS \"egrn\_propertyinfo\_propyearcom\", t4.childroomcadnumber AS \"egrn\_childroomcadnumbers\_childroomcadnumber\", t6.permissedusename AS \"egrn\_permisseduse\_permissedusename\", t1.buildmatcode AS \"egrn\_materials\_buildmatcode\", t1.buildmatvalue AS \"egrn\_materials\_buildmatvalue\", t2.floortypevalue AS \"egrn\_floorinfo\_floortypevalue\", t2.floornumber AS \"egrn\_floorinfo\_floornumber\", t3.parentlandcadnumber AS \"egrn\_parentlandcadnumbers\_parentlandcadnumber\"\nFROM (SELECT propertytypevalue, landcategorytype, level3name, regionvalue, level1type, currentcadastralvalue, propyearcom, roompurposevalue, prophght, registrationdate, parentcadnumber, roomtypevalue, canceldate, landareavalue, landareatypevalue, propname, readableaddress, propext, permisseduselandvalue, landcategoryvalue, propdpth, propbltuparea, level3type, cadnumber, parentroomcadnumber, propoccdpth, propyearblt, apartmentname, proparea, apartmenttype, typecode, recordnumber, propareavalue, floorscount, cadvalcalculationdate\nFROM egrn.propertyinfo WHERE cadnumber = '43:40:000415:924') AS t0\nLEFT JOIN (SELECT buildmatvalue, recordnumber, buildmatcode\nFROM egrn.materials) AS t1 ON t0.recordnumber = t1.recordnumber\nLEFT JOIN (SELECT recordnumber, floornumber, floortypevalue\nFROM egrn.floorinfo) AS t2 ON t0.recordnumber = t2.recordnumber\nLEFT JOIN (SELECT parentlandcadnumber, recordnumber\nFROM egrn.parentlandcadnumbers) AS t3 ON t0.recordnumber = t3.recordnumber\nLEFT JOIN (SELECT childroomcadnumber, recordnumber\nFROM egrn.childroomcadnumbers) AS t4 ON t0.recordnumber = t4.recordnumber\nLEFT JOIN (SELECT childcarspacecadnumber, recordnumber\nFROM egrn.childcarspacecadnumbers) AS t5 ON t0.recordnumber = t5.recordnumber\nLEFT JOIN (SELECT recordnumber, permissedusename\nFROM egrn.permisseduse) AS t6 ON t0.recordnumber = t6.recordnumber\nFETCH NEXT 100 ROWS ONLY, parameters=null, isExecutable=true)]"}

“**timestamp**” – Дата Время события (в примере, 2022-04-25 11:52:42,930)

“**logger**” – JAVA-пакет (источник логов)

“**level**” – уровень логов:

TRACE — вывод всего подряд. На тот случай, если Debug не позволяет локализовать ошибку. В нем полезно отмечать вызовы разнообразных блокирующих и асинхронных операций.

DEBUG — журналирование моментов вызова «крупных» операций. Старт/остановка потока, запрос пользователя и т.п.

INFO — разовые операции, которые повторяются крайне редко, но не регулярно. (загрузка конфига, плагина, запуск backup)

WARNING/WARN — неожиданные параметры вызова, странный формат запроса, использование дефолтных значений в замен не корректных. Вообще все, что может свидетельствовать о не штатном использовании.

ERROR — повод для внимания разработчиков. Тут интересно окружение конкретного места ошибки.

“**thread**” – нить процессов (в примере, нить в которойvert.x)

“**message**” – описание события (в примере, передача SQL-запроса)

Примеры ошибок:

**ОШИБКА**

2022-02-04 09:31:33.481 ERROR 1 — [tloop-thread-10] [303089ab-50d7-42aa-adc4-405c2133ae64] r.d.p.q.e.c.q.c.QueryController : Error while executing request [InputQueryRequest(requestId=303089ab-50d7-42aa-adc4-405c2133ae64, datamartMnemonic=x, sql=INSERT INTO x.x(norm\_middlename, id, oms\_number, middlename, create\_ts, norm\_firstname, oms\_region, norm\_lastname, lastname, gender, birthdate, update\_ts, snils, firstname)

(SELECT norm\_middlename, id, oms\_number, middlename, create\_ts, norm\_firstname, oms\_region, norm\_lastname, lastname, gender, birthdate, update\_ts, snils, firstname

FROM x.x\_kafka\_upload), parameters=null)]

ru.datamart.prostore.query.execution.core.delta.exception.TableBlockedException: Table[x] blocked: KeeperErrorCode = NodeExists

**РЕШЕНИЕ**

2022-02-04 09:31:33.481 INFO 1 — [tloop-thread-10] [303089ab-50d7-42aa-adc4-405c2133ae64] io.vertx.ext.web.RoutingContext : RoutingContext failure (500)

ru.datamart.prostore.query.execution.core.delta.exception.TableBlockedException: Table[x] blocked: KeeperErrorCode = NodeExists Table[x] blocked

**Есть незавершенная операция записи в таблицу x, соответственно до ее завершения, новая операция начаться не может**

GET\_WRITE\_OPERATIONS()

120 0 x x\_kafka\_upload "INSERT INTO x.x (norm\_middlename, id, oms\_number, middlename, create\_ts, norm\_firstname, oms\_region, norm\_lastname, lastname, gender, birthdate, update\_ts, snils, firstname)

(SELECT norm\_middlename, id, oms\_number, middlename, create\_ts, norm\_firstname, oms\_region, norm\_lastname, lastname, gender, birthdate, update\_ts, snils, firstname

FROM x.x\_kafka\_upload)"

**Сделали resume**

Caused by: ru.datamart.prostore.jdbc.util.DtmSqlException: Mppw load failed:

Plugin: ADP, status: BREAK\_MPPW\_RECEIVED, offset: -1, stopReason: ru.datamart.prostore.common.exception.DtmException: Stopping MPPW for datasource ADP. Reason: BREAK\_MPPW\_RECEIVED. Request id: d4a9067d-7df7-4900-90f6-b7c5b65ff00c

at ru.datamart.prostore.jdbc.protocol.http.HttpReaderService.checkResponseStatus(HttpReaderService.java:145)

at ru.datamart.prostore.jdbc.protocol.http.HttpReaderService.executeRequest(HttpReaderService.java:129)

at ru.datamart.prostore.jdbc.protocol.http.HttpReaderService.executeQuery(HttpReaderService.java:116)

**Запрошены настройки**

время ожидания (в миллисекундах) до тайм-аута при работе с первым смещением в топике Kafka

firstOffsetTimeoutMs: ${EDML\_FIRST\_OFFSET\_TIMEOUT\_MS:15000}

время ожидания (в миллисекундах) до тайм-аута при ожидании смены смещения в топике Kafka

changeOffsetTimeoutMs: ${EDML\_CHANGE\_OFFSET\_TIMEOUT\_MS:10000}

**ОШИБКА**

INTERNAL: RuntimeException: Ошибка при исполнении SQL подзапроса: while converting.theme = u&'\\0422\\0443\\0440\\0438\\0437

043c'"

**РЕШЕНИЕ**

По вопросу ошибки кириллицы в адаптере ПОДД, необходимо поменять стартовые параметры приложения с:

ExecStart=/usr/bin/java \

-jar podd-adapter.jar \

--spring.config.location=/opt/podd/application.yml

На --\*

ExecStart=/usr/bin/java \

-Dsaffron.default.charset=UTF-16LE \

-Dsaffron.default.nationalcharset=UTF-16LE \

-Dsaffron.default.collation.name=UTF-16LE$en\_US \

-jar podd-adapter.jar \

--spring.config.location=/opt/podd/application.yml

**ОШИБКА**

2022-02-04 12:14:23.061 [http-nio-8089-exec-9] DEBUG o.s.w.s.m.m.a.ExceptionHandlerExceptionResolver - Using @ExceptionHandler ru.itone.datamart.printableformservice.controller.ResponseExceptionHandler#handleAnyException(Exception, WebRequest)

2022-05-04 12:14:23.062 [http-nio-8089-exec-9] DEBUG o.s.w.s.m.m.a.HttpEntityMethodProcessor - Using 'text/plain', given [\*/\*] and supported [text/plain, \*/\*, text/plain, \*/\*, application/json, application/\*+json, application/json, application/\*+json]

2022-05-04 12:14:23.062 [http-nio-8089-exec-9] DEBUG o.s.w.s.m.m.a.HttpEntityMethodProcessor - Writing ["Error: Illegal unquoted character ((CTRL-CHAR, code 10)): has to be escaped using backslash to be i (truncated)...]

2022-05-04 12:14:23.063 [http-nio-8089-exec-9] DEBUG o.s.w.s.m.m.a.ExceptionHandlerExceptionResolver - Resolved [com.fasterxml.jackson.core.JsonParseException: Illegal unquoted character ((CTRL-CHAR, code 10)): has to be escaped using backslash to be included in string value

**РЕШЕНИЕ**  
Помогло использование

{\{ multiline | escape(strategy="js") }

}

# РЕКОМЕНДАЦИИ К ПОСЛЕДОВАТЕЛЬНОСТИ КОРРЕКТИРОВКИ НАСТРОЕЧНЫХ ПАРАМЕТРОВ

Настройку параметров производительности витрины данных необходимо производить в следующей порядке:

* Во-первых, необходимо правильно развернуть и настроить СУБД (см. Производительность СУБД).
* Во-вторых, необходимо скорректировать количество потоков для ядра Prostore (см. Производительность Ядра Prostore).
* В-третьих, необходимо выделить ключевые индексы в вашей базе данных (см. Создание БД и таблиц Росреестр).
* В-четвертых, необходимо настроить адаптер ПОДД (см. Настройка ПОДД адаптера).
* В-пятых, требуется настройка агента ПОДД (см. Настройка ПОДД агента).

# СОКРАЩЕНИЯ И ТЕРМИНЫ

ADB

Arenadata DB (ADB)- Аналитическая распределенная СУБД, построенная на основе Greenplum и предназначенная для хранения и обработки больших объемов данных.

Greenplum

Массово-параллельная СУБД для хранилищ данных на основе PostgreSQL.

DBeaver

Клиентское приложение для управления базами данных (БД), которое использует программный интерфейс JDBC для взаимодействия с реляционными БД через драйвер JDBC-драйвер.

ETL

Extract, transform, load (англ.) – решение, используемое при выгрузке данных из различных источников ведомств и дальнейшего хранения их в Витрине ProStore для чтения, использования и взаимодействия с другими ведомствами.

JDBC

Java DataBase connectivity (англ.) – платформенно-независимый промышленный стандарт взаимодействия Java-приложений с различными СУБД.

JDBC-драйвер

Специализированное программное обеспечение,которое размещается на стороне системы, использующей ADTM (клиента ADTM). Драйвер предоставляет JDBC-интерфейс подключения из этой системы к ADTM и взаимодействует с сервисом исполнения запросов по REST API, предоставляемым сервисом исполнения запросов.

MPP

Массово-параллельная архитектура (англ. massive parallel processing, MPP, также «массивно-параллельная архитектура»).

ProStore

Интеграционная система, обеспечивающая единый интерфейс к хранилищу разнородных данных. Определяет структуры данных, запись и чтение данных Витрины. Позволяет работать со входящими в состав хранилища СУБД одинаковым образом, используя единый синтаксис запросов SQL и единую логическую схему данных.

SSH

Secure Shell (англ.) – «безопасная оболочка». Сетевой протокол прикладного уровня, позволяющий производить удалённое управление операционной системой и туннелирование TCP-соединений.

XML

eXtensibe Markup Language (англ.) – универсальный текстовый формат для хранения и передачи структурированных данных.

Агент ПОДД

Типовое программное обеспечение, устанавливаемое на стороне УВ и обеспечивающее сопряжение Витрин, хранилищ реплик, ИС Участника взаимодействия с ПОДД. В частности, чтение данных из Витрины, запись данных в реплику, обработка промежуточных/временных массивов данных, порождаемых в процессе выполнения распределённых запросов.

База данных

Совокупность данных, хранимых в соответствии со схемой данных, манипулирование которыми выполняют в соответствии с правилами средств моделирования данных.

Брокер сообщений

Архитектурный паттерн в распределённых системах; приложение, которое преобразует сообщение по одному протоколу от приложения-источника в сообщение протокола приложения-приёмника, тем самым выступая между ними посредником.

Витрина данных

Комплекс программных и технических средств в составе информационно-телекоммуникационной инфраструктуры участника НСУД, предназначенный для формирования и (или) получения данных с использованием среды взаимодействия НСУД.

ВС

Вид сведений

ИС

Информационная система.

Логическая модель данных

Схема базы данных, выраженная в понятиях бизнес-требований.

НСУД

Национальная система управления данными.

ПО

Программное обеспечение.

ПОДД

Подсистемы обеспечения доступа к данным

ПОДД-адаптер

Программно-технический продукт, обеспечивающий взаимодействие витрины и ПОДД СМЭВ.

ПОДД-адаптер - Модуль MPPR

Логический модуль, который является частью модуля ПОДД-адаптер и предназначен для загрузки данных табличных параметров в многопоточном режиме (massively parallel processing, MPP).

СМЭВ

Система межведомственного электронного взаимодействия.

Сообщение

Сведения в виде законченного блока данных, передаваемые при функционировании информационной системы.

## ПРИЛОЖЕНИЕ А – Пример скрипта для Jmeter

Приложение приведено в отдельном файле: Приложение А - Пример скрипта для Jmeter



## ПРИЛОЖЕНИЕ Б – Пример настройки дашбордов

Ссылки на дашборды Grafana для Jmeter

<https://grafana.com/grafana/dashboards/4026>

<https://grafana.com/grafana/dashboards/1152>

<https://grafana.com/grafana/dashboards/5496>

<https://grafana.com/grafana/dashboards/13644>

Пример json файла для настройки используемых в методике дашбордов приведен в отдельном файле.

