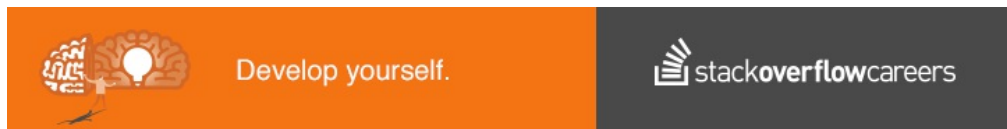


Ten. Million. Questions. Let's celebrate [all we've done together](#).

Stack Overflow is a question and answer site for professional and enthusiast programmers. It's 100% free.

Take the 2-minute tour

## Neo4j search takes +30 min while using 75%CPU 80GB of Ram



0



Queries in Neo4jShell are really slow and the CPU just goes to around 80% and keeps going. I checked schema: and have indexes. The computer has 128GB Ram and Neo4j is using 75GB of RAM. The database size is 24GB. There are about 4 million nodes and 120 million relationships

Does anyone know if Neo4j can handle queries with 24GB of data quickly ?

This query takes 20 minutes to return

```
MATCH (o:Foo {rbt:"local-foo"})-[:val]->(j:Bar )
```

```
:schema
Indexes
ON :Object(text)          ONLINE
ON :Foo(rbt)              ONLINE
ON :Bar(rbt)              ONLINE
ON :Property(prd)         ONLINE
ON :PI(rbt) FAILED
```

No constraints

From my neo4j.properties:

```
# Default values for the low-level graph engine

neostore.nodestore.db.mapped_memory=2999M
neostore.relationshipstore.db.mapped_memory=15500M
neostore.relationshipgroupstore.db.mapped_memory=800M
neostore.propertystore.db.mapped_memory=390M
neostore.propertystore.db.strings.mapped_memory=330M
neostore.propertystore.db.arrays.mapped_memory=330M
```

neo4j

share improve this question

edited Mar 27 at 11:48



Michael Hunger

25.2k ● 2 ● 21 ● 41

asked Mar 26 at 20:37

Aries On The Cusp

76 ● 1 ● 10

Can you output your query plan? With `profile MATCH (o:Foo {rbt:"local-foo"}) with o limit 10 match (o)-[:val]->(j:Bar ) return j` - Michael Hunger Mar 26 at 21:01

Which version of Neo4j do you use? - Michael Hunger Mar 26 at 21:02

What kind of disk do you have? What is your config for the memory/heap for neo4j? - Michael Hunger Mar 26 at 21:05

2 if you have 2.2. you can also use EXPLAIN which doesn't execute the query but just plan it. - Michael Hunger Mar 26 at 21:07

I'm using Neo version 2.2.0 (64-bit) . The database is on a 256GB SSD drive. In my neo4j-community.vmoptions I have one line that says "-Xmx51200m" Here is an image of what EXPLAIN showed: [imgur.com/oZwrPjD.png](https://imgur.com/oZwrPjD.png) - Aries On The Cusp Mar 27 at 0:49

show 6 more comments

2 Answers

active

oldest

votes



1

What about this query ?

```
MATCH (o:Foo {rbt:"local-foo"})
MATCH (o)-[:val]->(j:Bar)
```

asked 4 months ago

viewed 67 times

active 4 months ago

Blog

[Why Stack Overflow is a Good Workplace for Women](#)

Related

- 7 Loading all Neo4J db to RAM
- 2 neo4j complex pattern searching
- 0 Neo4j - Searching from an array of nodes
- 1 Troubles while running neo4j & rails in HA
- 0 Neo4j cypher query takes a lot of time
- 0 Error while installing neo4j
- 0 neo4j search node that begin with the letter A
- 0 Neo4j-Server consuming RAM excessively
- 0 LOAD CSV hangs / does nothing while consuming 10 GB of RAM and 100% CPU
- 0 How to determine the Max property on a Relationship in Neo4j 2.2.3

Hot Network Questions

- Noun form of "extant"?
- How to use Piano pedals without using the foot?
- Using Emergency Fund to Sell Upside-down Car
- Was フリスマスケーキ used metaphorically about women?
- Antonym of Overlap?
- Name for a device purposefully put together from faulty parts
- Is it modest to compliment a woman on her modesty?
- How do I remove Candy Crush Saga from Windows 10?
- Do companies only pay dividends if they are in profit?
- Why don't decoupling/bypass capacitors need resistors to perform their function, like regular filters?

Also, if you are sure that all the `j` nodes will have a `:Bar` label, you can omit it to improve the query :

```
MATCH (o:Foo {rbt:"local-foo"})
MATCH (o)-[:val]->(j)
```

share improve this answer

answered Mar 26 at 20:46



[Christophe Willemssen](#)  
5,115 ● 1 ● 4 ● 17

Didn't work. Tried the query your way, but it hasn't returned yet. Cpu is at 30%, and it's been about 10 min. I really hope Neo4j is better than this !! – [Aries On The Cusp](#) Mar 27 at 5:27

add a comment

Make a better resume. Import to

Worked with M. Hunger to resolve the situation by modifying indexes and heap management for my system. Queries were sub-second after working through issues.

0

share improve this answer

answered Mar 31 at 19:29



[Aries On The Cusp](#)  
76 ● 1 ● 10

add a comment

## Your Answer

**B** *I*

Sign up or [log in](#)

Post as a guest

Sign up using Google

Sign up using Facebook

Sign up using Stack Exchange

**Name**

**Email**

Post Your Answer

By posting your answer, you agree to the [privacy policy](#) and [terms of service](#).

Not the answer you're looking for? Browse other questions tagged [neo4j](#) or [ask your own question](#).

- What are the advantages and disadvantages of an oblique wing over a swing wing
- Is it possible to automate tests for in progress sprint
- The Programming Language Quiz
- Can a Glaive be stowed in a Ruby Scabbard?
- Shut down list of servers given in a file
- Aerofoil that gives reasonably good lift for both flow directions: forward and backward
- Suggested alternatives for that horrible new noun 'nice-to-have'?
- Combining several symmetric ciphers using XOR
- Does developing on ARM Processors from different vendors differ much?
- Religion After the Discovery of a Multiverse
- Construct a polynomial with given roots
- How to show pagination "go to page" text box?
- The Hiding Rules Contradict Themselves. What Can I Make Of This?
- Is it 'Batman' or 'Batmans'?

[question feed](#)

