† rasdaman-users



🖈 Inserting binary files into Rasdaman



eu

5 de mai

Dear all.

I'm testing Rasdaman to store a collection of MODIS Vegetation Indices (MOD13Q1). I'm doing the data insertion through binary data. When I retrieve the data, I'm getting some invalid values. I did a simple test to try to reproduce it:

```
1) Creating the array:
```

```
struct MOD13Q1_pixel {short ndvi,evi,quality,red,nir,blue,mir,view_zenith,sun_zenith,
relative_azimuth,day_of_year;octet reliability;};
typedef marray <MOD13Q1_pixel, [0:172799, 0:86599, 0:*] > MOD13Q1_cube;
typedef set <MOD13Q1 cube> MOD13Q1 cube set;
```

2) Creating binary files with known values:

```
tr '\00' $'\01' < /dev/zero | tr -d "\n" | dd count=23000 bs=1 of=file23k tr '\00' $'\01' < /dev/zero | tr -d "\n" | dd count=23000000 bs=1 of=file23M
```

3) Inserting data:

```
rasql -q "insert into mod13q1 values marray it in [0:0,0:0,0:0] values {1s,1s,1s,1s,1s,1s,1s,1s,1s,1s,1s,1s,1o}" --user rasadmin --passwd rasadmin
```

rasql -q 'UPDATE mod13q1 as c set c[0:99,0:9,0:0] assign \$1' -f file23k --mdddomain "
[0:99,0:9,0:0]" --mddtype MOD13Q1_cube --user rasadmin --passwd rasadmin

4) Selecting array content:

```
rasql -q "select c.nir from mod13q1 as c" --out hex
```

```
In this step, I found values other than 1. If I try to insert a bigger file:
rasql -q 'UPDATE mod13q1 as c set c[0:999,0:999,0:0] assign $1' -f file23M --mdddomain "
[0:999,0:999,0:0]" --mddtype MOD13Q1 cube --user rasadmin --passwd rasadmin
```

I get the following error message:

```
"Executing update query...rasdaman error 0: Internal server error. aborting transaction...E0505 17:20:43.664132326 1351 tcp_client_posix.c:171] failed to connect to 'ipv6:[::1]:7002': socket error: connection refused "...
```

Can anyone tell me what I'm doing wrong?

Thank yoo in advance,

Vitor







Dimitar Mišev

6 de mai

Hi Vitor,

On 05/05/2017 07:39 PM, Vitor Gomes wrote:

- > Dear all,
- Dear
- > I'm testing Rasdaman to store a collection of MODIS Vegetation Indices (MOD13Q1). I'm doing the data insertion through binary data. When I retrieve the data, I'm getting some invalid values. I did a simple test to try to reproduce it:
- > 1) Creating the array:
- > struct MOD13Q1_pixel {short ndvi,evi,quality,red,nir,blue,mir,view_zenith,sun_zenith,relative_azimuth,day_of_year; octet reliability;}:
- > typedef marray <MOD13Q1 pixel, [0:172799, 0:86599, 0:*] > MOD13Q1 cube;

I'm guessing 0:* is the time dimension? Rasdaman performance tip of the day: model your array so that the time dimension is first (unless you primarily plan to "drill" a small area through all time slices). Dimensions from which you extract the least amount of data should go first.

I can confirm, this looks like a bug. The error below looks like another (separate) issue. We'll come back when we have some more information about it, thanks for the clear info on how to reproduce it.

Dimitar

- > You received this message because you are subscribed to the Google Groups "rasdaman-users" group.
- > To unsubscribe from this group and stop receiving emails from it, send an email to rasdaman-users-unsubscribe@googlegroups.com>.
- > To post to this group, send email to <u>rasdama...@googlegroups.com</u> < mailto: <u>rasdama...@googlegroups.com</u> >.
- > Visit this group at https://groups.google.com/group/rasdaman-users.



vconrado@gmail.com - Sair - Computador