Subject: Timestamp accuracy in postgres and upp
Posted by Zbych on Tue, 05 Jul 2011 13:44:13 GMT
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Hi,

Definition of TIME in database schematic doesn't specify accuracy and (at least) postgres keeps time in micro seconds. Since upp time accuracy is 1s, it sometimes leads to some problems. Maybe there should be another definition of TIME that has the same accuracy like upp? What do you think?

My proposition is to add following definitions to PostgreSQLSchema.h:

```
#define TIME_SEC(x)          COLUMN("timestamp(0)", Time, x, 0, 0)
#define TIME_SEC_(x)          COLUMN_("timestamp(0)", Time, x, 0, 0)
```

Subject: Re: Timestamp accuracy in postgres and upp
Posted by mirek on Wed, 06 Jul 2011 12:30:32 GMT
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Zbych wrote on Tue, 05 July 2011 09:44Hi,

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#define TIME_SEC_(x)          COLUMN_("timestamp(0)", Time, x, 0, 0)
```

Actually, perhaps TIME should be defined in seconds accuracy...

However, what kind of issues does it leads to? I would say you store seconds, you are about retrieve seconds from DB, right?

Mirek

Subject: Re: Timestamp accuracy in postgres and upp
Posted by Zbych on Wed, 06 Jul 2011 13:02:12 GMT

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I don't want to change TIME definition because of backward compatibility, but it is your decision.

In my application I keep some logs in a database. Once in a while another application transfers those logs from the database to main server and I use timestamp to remember which logs were already transfered.
If the last log has timestamp 17:00:00.5 (timestamp is added automatically by postgres), upp rounds it to 17:00:00. Next time I will search for logs with timestamp >17:00:00 and the log with timestamp 17:00:00.5 will be transfered again. That is why I need the same timestamp resolution in both upp and database.

Subject: Re: Timestamp accuracy in postgres and upp
Posted by zsolt on Thu, 07 Jul 2011 11:17:39 GMT
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I think, it would be easier to use a 'serial' field.

Subject: Re: Timestamp accuracy in postgres and upp
Posted by mirek on Sat, 23 Jul 2011 07:15:35 GMT
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Zbych wrote on Wed, 06 July 2011 09:02I don't want to change TIME definition because of backward compatibility, but it is your decision.

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What I am not getting is why it finds the log the first time, actually...

I mean, if the select is something like

Select().From(LOG).Where(timestamp >= 16:00 && timestamp < 17:00)

(and than move forward).

In fact, I am posting this because I have very similar arrangemnt in one of mine apps, so I would like to know if I am missing something

Subject: Re: Timestamp accuracy in postgres and upp
Posted by Zbych on Sat, 23 Jul 2011 16:14:06 GMT
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This log can be found for the first time because main server doesn't have it in it's database and uses timestamp of earlier log as a start point.

Subject: Re: Timestamp accuracy in postgres and upp
Posted by mirek on Sat, 30 Jul 2011 16:59:56 GMT
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Zbych wrote on Sat, 23 July 2011 12:14This log can be found for the first time because main server doesn't have it in it's database and uses timestamp of earlier log as a start point.

I see.

OK, patch applied, TIME_SEC added...

Mirek