

Vacuum statistics

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Vacuum prevents problems

- table and index bloating
- emergency freezing
- irrelevant information about visibility map

Vacuum has disadvantages

- Workload
 - a minimal for an append-only tables
 - a maximum for a high-frequency updating table
- Vacuum scans the index completely

Vacuum settings

The determination of the aggressive functionality to other objects of the database

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It is important for administrator to have a balance between vacuum's useful action and the minimum of the overhead of its workload

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- number of vacuum passes through tables
- operational data from `progress_vacuum`

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It is available only during vacuum operation and do not provide a strategic overview

Let's gather information about vacuum

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It collects information:

- buffer statistics: read, hit and written, time spent on I/O
- wal statistics
- specific to vacuum activity:
 - number of tuples removed
 - number of blocks removed
 - number of VM marks set
- time spent on vacuum operation:
 - system_time
 - user_time

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All those statistics can be stored by the **Cumulative Statistics System** on per-relation basis

Such counters are important:

- vision about vacuum workload on individual objects of the database
- measure the efficiency of performed vacuum fine tuning

About Implementation

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The link on the thread:

<https://commitfest.postgresql.org/48/5012/>

Thank You For Your Attention!

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