Oracle Database In-Memory

DOAG 2015 Konferenz

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Focus: get the most out of Oracle Database

- Logical and physical database design
- Query optimizer
- Application performance management

Author of Troubleshooting Oracle Performance (Apress, 2008/14)

OakTable Network, Oracle ACE Director
Our Company

Trivadis is a market leader in IT consulting, system integration, solution engineering and the provision of IT services focusing on Oracle and Microsoft technologies in Switzerland, Germany, Austria and Denmark. We offer our services in the following strategic business fields:
With over 600 Specialists and IT Experts in Your Region

- 14 Trivadis branches and more than 600 employees
- 200 Service Level Agreements
- Over 4,000 training participants
- Research and development budget: CHF 5.0 million
- Financially self-supporting and sustainably profitable
- Experience from more than 1,900 projects per year at over 800 customers
Oracle Database In-Memory – Architecture Overview

- SGA
- Buffer Cache
  - DBWn
  - User
- In-Memory Area
  - C1
  - C2
  - C3
  - C4
  - C5
- TX Journal
- IMCO
- Wnnn
- Data Files

UPDATE
SELECT
The demos show the results of different performance tests.

The performance figures are intended only to explain and compare different kinds of processing and to give you a feel for their impact.

Every system and every application has its own characteristics. Therefore, the relevance of using each technique might be very different, depending on where it’s applied.
Oracle Database In-Memory – Demos

- Population (imcs_population.sql, video)
- FTS, no filter (imcs_fts_no_filter.sql, video)
- FTS, simple filter (imcs_fts_filter.sql, video)
- FTS, no filter, aggregation (imcs_fts_aggregation.sql, video)
- Real query (imcs_real_query.sql, video)
- Distribution with RAC (imcs_duplicate.sql, video)
- Repopulation (imcs_repopulation.sql, video)

Tip: follow the links to access the scripts and the videos
Oracle Database In-Memory – Summary

- Performance improvements can be great
  - Don’t always expect a factor 42-1000 speed up
  - Some scenarios can even be slower
  - There are various limiting factors
- Works out-of-the-box
  - Simple configuration
Trivadis at DOAG 2015

Level 3 - next to the escalator

We look forward to your visit.

Because with Trivadis you always win.
Questions and Answers…

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