DB2 10.5 – neue Features im SAP Umfeld und Roadmap
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Agenda

• DB2 10.5 for LUW – Highlights for SAP

  • DB2 10.5 BLU Support for SAP NetWeaver BW
    – Overview
    – DB2 10.5 BLU Integration into SAP NetWeaver BW
    – ETL Performance
    – PoC Results

• Roadmap

• More Information
DB2 10 for LUW – Highlights for SAP

Better Performance
- Smart Prefetching
- Jump Scan
- Multi Core Parallelism
- DB2 BLU feature

Low Operational Cost
- Reorg Avoidance
- More Autonomics
- Better Compression
- Enhanced Flash Copy
- Monitoring Enhancements

Reliability / Availability
- Comprehensive DR solution
- pureScale Performance Improvements
- Rolling DB2 FixPak update
- Online Growth

SAP Integration
- SAP ERP, SAP IDM, SAP BW,
- DB2 Near-Line Storage for SAP BW,
- SAP OLTP,
- DBA Cockpit
- ABAP Dictionary
- Installation, Upgrade, Migration,
- DB6Conv, R3Load, db6_update_db
• DB2 10.5 wird ab SAP NetWeaver 7.0 SR 3 oder höher unterstützt

• Erweiterte DB2-Wartungszeiträume (siehe Hinweis 1168456)
  – DB2 10.5 bis 31-12-2022
  – DB2 10.1 bis 31-12-2022
  – DB2 9.7 bis 31-12-2022

• DB2 Version 10.5: SAP-certified Level
  – Note 1851853 - DB6: Using DB2 10.5 with SAP Applications
  – Note 1851832 - DB6: DB2 10.5 Standard Parameter Settings
  – Note 1837312 - DB6: Upgrade to Version 10.5 of DB2 LUW
  – Note 101809 - DB6: Supported Versions and Fix Pack Levels

• DB2 Editionen
  – DB2 Advanced Enterprise Server Edition (AESE) Version 10.5 für LUW*
  – DB2 Enterprise Server Edition (ESE) Version 10.5 für LUW
SAP Usage of Adaptive Compression

• **Support of Online Reorg**

• **Now default compression for SAP**
  
  – DB2 Registry Variable can be used to transform COMPRESS YES to AC:
    
    • DB2_ROWCOMPMODE_DEFAULT = [STATIC|ADAPTIVE]
    • set under DB2_WORKLOAD=SAP
  
  – **DB2 10.1**: DB2_ROWCOMPMODE_DEFAULT = STATIC
    
    • COMPRESS YES == STATIC
  
  – **DB2 10.5**: DB2_ROWCOMPMODE_DEFAULT = ADAPTIVE
    
    • COMPRESS YES == ADAPTIVE

• **- SAP enhancements for adaptive compression support**
  
  – SAP DB6CONV and SAP DDIC support added to NW 7.0 and higher
  
  – SAP DBA Cockpit support (NW 7.02 and higher)
  
  – SAP R3load support with option COMPRESS_LIST (SAP Note 1058437)
SAP usage of DB2 Automation and Self Tuning

• **Automatic Configuration and Self Tuning**
  – Most DB2 configuration parameters can be set to AUTOMATIC
  – Automatic and adaptive memory tuning by DB2’s Self Tuning Memory Manager (STMM)
  – **DB2 10.5 NEW: STMM member-individual tuning for DB2 pureScale and DPF Feature (SAP Note 1132282)**

• **Automatic Storage**
  – Removes the burden of managing tablespaces
  – DB2 manages the tablespaces inside the storage groups

• **Automatic Table Maintenance**
  – Automatic statistics collection
  – Real-Time statistics
  – Automatic index cleanup
  – Automatic space reclamation
Reorg-Free Database – DB2 10.1 Recap

How does Insert Time Clustered (ITC) tables work?

1) INSERTS ...
2) DELETE WHERE ...
3) REORG … **RECLAIM EXTENTS**
4) INSERTS

Extents quickly returned to tablespace
Available for other tables, indexes
Reorg-Free Database – DB2 10.5 Extension

DB2 10.5 Sparsely filled extents can be reclaimed

DB2 10.5 enhancement: Reclamation of partially filled extents

1. Partially filled extents are consolidated to free up entire extents
2. Completely empty extents are returned to the tablespace

Executed transparently in the background under automatic table maintenance control
Reorg-Free Database for SAP

Sparse objects that allow space reclaim

- Insert Time Clustered (ITC) tables
  - Recommended for tables with active archiving policies
  - Allow reclaim of completely empty and partially filled extends

- MDC tables: Reclaim of empty extents
- BLU tables: Reclaim of empty extents
- All indexes: Reclaim of partially filled extents

Space reclamation

- REORG ... RECLAIM EXTENTS ALLOW WRITE ACCESS
- Executed automatically by DB2 in the background under ATM control

Smart prefetching

- Removes the need for REORGs to achieve good performance for large scans

Changes to REORGCHK

- No longer to report "**" REORG recommendations under DB2_WORKLOAD=SAP
  ➔ Avoids unnecessary Reorgs
- SAP Note 975352 - DB6: Reorganizations in DB2/Using DB2 Auto REORG for details
- SAP Paper - Avoiding Database REORG Operations in SAP Systems on DB2 for LUW

http://scn.sap.com/docs/DOC-32875
Snapshot Backup Main Steps

Steps (performed manually / per custom script / via ACS API)

1. Suspend all write operations to files of the database
2. Create a database copy on file system level
3. Resume all write operations

- Configuration Files
- Log Files
- Container Files
ACS Scripted Interface – Properties & Advantages

- The DB2 ACS API is now wrapped in the library for DB2 ACS.
- The library invokes the customer script to perform the snapshot operation (backup or restore).
- By creating your own script for performing snapshots, you can use unsupported storage boxes (without a vendor library for interfacing with DB2 ACS).
- The DB2 database manager takes over the error-prone actions like issuing the SET WRITE SUSPEND, SET WRITE RESUME, and db2inidb commands at the correct time.
- An entry is made in the recovery history file for every snapshot operation, allowing you to monitor successful and failed operations.

DB2 10.5 ACS Supported Storage Subsystems

- DS8000®
- Storwize® v7000
- SAN Volume Controller 4.3.x; SAN Volume Controller 5.1, or later; SAN Volume Controller 6.1, or later
- XIV®

+ Any Other Storage Solution
Scripted Interface for Snapshot Backup

DB2 LUW

calls

queries

db2acsutil

Contents of Protocol Files
- DB and instance name
- DB path
- Container Paths
- Storage Paths
- Log Directories
- Options like include / exclude logs

Scripted Interface for DB2 ACS

invokes

queries

Read Options

Reads Options

May write own information

Protocol File Repository

Backup Command using the solution:
BACKUP DATABASE SAMPLE ONLINE
USE SCRIPT $HOME/sqlib/samples/BARVendor/libacssc.sh OPTIONS "/repository/"

DB2 writes information of Snapshot Backup into DB2 history file
DB2 10.5 pureScale Enhancements

- Online DB2 FixPack updates  
  ➔ System downtime reduced
- DR solution with DB2 HADR  
  – Topology changes with DB2 Backup&Restore  
  ➔ Backup and restore between pureScale and non-pureScale environments
- Online Add Members for additional capacity
- Per-Member STMM
- Improved performance with „Explicit Hierarchical Locking (EHL)“ feature  
  ➔ Reduced data sharing costs

➡ Benefits for SAP applications  
  - Improved reliability / availability  
  - Improved performance
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What is DB2 with BLU Acceleration?

- **New technology** for analytic queries in DB2 LUW
  - DB2 column-organized tables add columnar capabilities to DB2 databases
    - Table data is stored column organized rather than row organized
    - Using a vector processing engine
    - Using this table format with star schema data marts provides significant improvements to storage, query performance, ease of use, and time-to-value
  - New unique runtime technology which leverages the CPU architecture and is built directly into the DB2 kernel
  - New unique encoding for speed and compression
    - This new capability is both main-memory optimized, CPU optimized, and I/O optimized
Why is BLU Acceleration Different – Technology and Value

Dynamic In-Memory Means Lower Hardware Costs & Higher Reliability
No requirement for all active data (any data being accessed) to fit in memory

Parallel Vector Processing Means Fast Analytics
Allows you to get more out of your existing hardware investments because the software was written to exploit these technologies; this saves money and increases performance

Actionable Compression Means Better Performance & Lower Hardware Costs
10x less storage requirements and faster performance (up to 25x without indexes/aggregates)

Automatic Data Skipping Means Fast Analytics & Ease of Use
Increases performance and saves resources

Super Fast, Super Easy — Create, Load and Go!
No Indexes, No Aggregates, No Tuning, No SQL changes, No schema changes
7 Big Ideas: How DB2 with BLU Acceleration Helps

~Sub second 10TB query – An Optimistic Illustration~

- The system – 32 cores, 10TB table with 100 columns, 10 years of data
- The query: SELECT COUNT(*) from MYTABLE where YEAR = ‘2010’
- The optimistic result: sub second 10TB query! Each CPU core examines the equivalent of just 8MB of data

10TB data → 1TB after storage savings → 10GB column access → 1GB after data skipping

32MB linear scan on each core → Scans as fast as 8MB encoded and SIMD → Subsecond 10TB query
SAP BW objects and NLS objects are created on DB2 row-organized tables.
SAP BW Support on DB2 10.5 BLU FP3aSAP

• Available with SAP BW 7.0 and higher

• Supported BW Objects
  – InfoCube
  – Aggregate
  – BW Temporary Tables

• Supported NLS Objects
  – NLS InfoCube
  – NLS DSO

• Benefits
  – Fast and stable BW query performance without tuning
  – Space reduction
  – Less Aggregates
  – Faster NLS queries
Use of DB2 BLU Acceleration with FP3aSAP (1)

- **SAP Note 1819734 – DB6: Use of BLU Acceleration**
  - Supported SAP scenario
    - SAP NetWeaver BW 7.0 and higher
    - DB2 Near-Line Storage for SAP NetWeaver BW
  - Requirements
    - Production use requires at least 64GB memory and 8 cores
    - Smaller configuration can be used for test and QA systems or near-line storage databases
    - OS: AIX, Linux on X86_64 platform
    - DB2 10.5 FP3aSAP
    - Unicode, single partition database
    - DB2 automatic storage
    - No HADR
  - Preparation
    - Adapt database configuration (SAP Note 1851832)
    - Upgrade your database interface shared library (DbSl) to a recent version with the following patch text: "DB6: DROP INDEX to DROP CONSTRAINT“ (SAP Note 1911087)
Use of DB2 BLU Acceleration with FP3aSAP (2)

• SAP Note 1825340 – DB6: Use BLU Acceleration with SAP BW

Required SAP BW Support Packages:

Recommended SAP BW Objects:
- InfoCubes
- Aggregates
- BW Temporary tables (/BI0/06..., /BI0/02..., /BI0/0P, ..., ...)
  Set RSADMIN parameter DB6_TMP_USE_CDE to YES

Exceptional Case + Corrections from SAP Note (1889656)

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- Run db6_update_db_script to enable WLM concurrency threshold for BLU after you have created the first column-organized table (SAP Note 1365982)
Use of DB2 BLU Acceleration with FP3aSAP (3)

- **SAP Notes with important Corrections**
  - SAP Note 19664464: DB6 Corrections to report SAP_CDE_CONVERSION_DB6
    - Related to BW Aggregate handling
  - SAP HotNews 1996587: DB6 InfoCube Compression of BLU InfoCubes aborts or produces wrong results
  - SAP HotNews 2022487: BLU inventory cubes: Wrong initial marker records are created when InfoCube compression is run with 'No Marker Update' selected
Use of DB2 BLU Acceleration with FP3aSAP (4)

- **1834310 - DB6: Use of DB2 BLU Acceleration with DB2 Near-Line Storage**

  Required SAP BW Support Packages:

  Recommended

  Minimum Support Packages
  + Corrections from SAP Note (1834310)

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</table>

- **Supported BW Objects:**
  - NLS InfoCubes
  - NLS DataStore Objects (DSOs)
- Set RSADMIN=DB6_NLS_USE_CDE to create NLS objects as column-organized tables
DB2 BLU Integration into SAP BW

- Integration into SAP BW Workbench
- New BW objects supported with DB2 10.5 FP4
- SAP ABAP Dictionary extension to support BLU tables as new table type
- BLU conversion of existing BW objects
- DBA Cockpit support: Monitoring and Administration
- Configuration for BLU feature is part of SAP’s DB2 parameter setting
- SAP BW ETL processing adaptation
- SAP BW Migration to DB2 10.5 BLU
SAP BW Workbench

- Selection of BLU (column-organized tables) via Clustering dialog
DB2 BLU Support in SAP ABAP Dictionary

Example: Storage parameters for F fact table

F fact table row-organized (up to 16 secondary indexes)

F fact table column-organized (no indexes)
Conversion of Existing BW Objects to DB2 BLU

- Online conversion with Report SAP_CDE_CONVERSION_DB6
  - Conversion jobs for DB6CONV tool for dependent tables are created
  - Use latest version of DB6CONV tool (SAP note 1513862)
Columnar processing as part of Time Spent Analysis
Bufferpool Reads and Writes
DB2 BLU Configuration for SAP BW

- Details in SAP Note 1851832 - DB6: DB2 10.5 Standard Parameter Settings
- Minimal database server size for productive usage
  - At least 8 cores
  - At least 64GB memory
  - As a rule of thumb, you should target a configuration with 8 GB memory per core.

- DB2 Registry
  - DB2_WORKLOAD=SAP includes DB2 optimizations for BLU

- Database Manager and Database Parameters
  - INSTANCE_MEMORY = 60 GB or more (dependent on db server memory)
  - DATABASE_MEMORY = AUTOMATIC
  - INTRA_PARALLEL = YES
  - MAX_QUERYDEGREE = ANY
  - SHEAPTHRES_SHR = 40% of INSTANCE_MEMORY (initial value)
  - SORTHEAP = 1/20 of SHEAPTHRES_SHR (initial value)
  - UTIL_HEAP_SZ = AUTOMATIC
  - STMM enabled for Bufferpool, Locklist and Package Cache

- SAP BW RSADMIN parameters
  - DB6_TMP_USE_CDE = YES to create temporary BW tables as column-organizes tables
SAP BW ETL Performance

ETL processing with SAP BW InfoCubes on DB2 10.5

- Data Propagation from PSA to InfoCube with column-organized tables
  BLU is in general as fast as row-store

- “InfoCube Compression“ with column-organized tables
  BLU is up to 30% faster than row-store

- Selective Data Deletion from InfoCube with column-organized tables
  BLU is up to factor 6x faster than row-store

- Aggregate Build
  BLU is up to factor 2x faster than row-store

Internal Tests at IBM Germany Research & Development
Ergebnisse: Storage Einsparungen auf den Infocubes

Compression Bedingungen

- Ursprüngliche Tabellengröße basierte auf DB2 9.7 Deep Compression
- Einsparungen ergeben sich aus dem Löschen der Indexe und der neuen Tabellenorganisation
BLU PoC: Compare BW query performance between **DB2 9.7** and **DB2 10.5 BLU**

**Results: Report Performance**

![Bar chart showing report performance comparison between DB2 9.7 and DB2 10.5 BLU.]

- **Report 1:** 6 times faster
- **Report 2:** 55 times faster
- **Report 3:** 17 times faster
- **Report 4:** 3 times faster
- **Report 5:** 21 times faster

**Test Conditions**
- Measurement of the total Report Runtime (incl. SAP BW)
- Focus: Reports using the Sales Cube (12 Mio records, 200 attributes)
- Test of different reports (slow & fast running reports)
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SAP on DB2 10.5 Certification Status / Plan

DB2 10.5 GA - SAP Certification (Non-BLU)

August 8 2013

SAP BW on DB2 10.5 GA - SAP Certification (Non-BLU)

Supported BW features
- Standard InfoCube
- Cumulative InfoCube
- Non-Cumulative (inventory) – Supported features for DB2 specific NLS
- Standard InfoCube
- DSO

Time

December 2013

SAP BW on DB2 10.5 FP1 – BLU stage 1
Supported BW features
- Master Data tables
- Standard DSO
- Flat InfoCube
- Transactional InfoCube
- Direct Update DSO
- InfoSet
- Write Optimized DSO
- Persistent Staging Area (PSA)

2014

Juni 25 2014

DB2 10.5 FP3a

SAP BW on DB2 10.5 FP4 – BLU stage 2
Supported BW features
- Master Data tables
- Standard DSO
- Flat InfoCube
- Transactional InfoCube
- Direct Update DSO
- InfoSet
- Write Optimized DSO
- Persistent Staging Area (PSA)
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Recent SAP Notes

• SAP Notes for SAP BW on BLU
  – 1996587 - DB6: Compression of BLU InfoCubes aborts or produces wrong results
  – 2022487 - DB6: BLU inventory cubes: Wrong initial marker records are created when InfoCube compression is run with 'No Marker Update' selected
  – 2034090 - DB6: Recommendations for the Usage of BLU Acceleration in SAP BW

• SAP HotNews for Online Inplace REORG
  – 2010677 - DB6: In DB2 10.5 a REORG INPLACE operation on a table with adaptive compression enabled might fail or produce unreadable results

• Transaction Log Full with REORG CLEANUP
  – 2032967 - DB6: REORG CLEANUP ONLY ALL may cause transaction log full in rare cases
Recent SAP Notes

• NW 7.40 SP08 and higher require DB2 10.5
  – **1951491 - Minimal DB system platform requirements for SAP NetWeaver 7.4 SP08**

• Optional de-clustering and de-pooling of SAP pool and cluster tables
  – Optional “in-place” conversion as of NW 7.40 SP03 (online and offline, **SAP Note 1892354**)
  – Conversion during installation, system copy and database migration (SWPM 1.0 SP05)
DB2 Fix Pack Update

• DB2 SSL security vulnerabilities
  – Affect SSL only, which is rarely used
  – No SAP certification of DB2 9.7 FP9a, DB2 10.1 FP3a

• DB2 10.5 FP3aSAP
  – Special build based on 10.5 FP3a with additional fixes, mostly BLU related
  – Available for download from SAP Service Marketplace in addition to 10.5 FP3SAP
  – Recommendation: Use FP3aSAP for new deployments
  – DB2 BLU customers must use FP3aSAP
DBA Cockpit

- Database status in all generated screens

**Additional SAP GUI screens**
- WLM Setup Status
- WLM Workloads and Service Classes
- WLM Threshold Configuration
- WLM Threshold Violations
- WLM Enhanced Prioritization Scheme

**TOP SQL Statements Utility History Message History pureScale Cluster Status**
DBA Cockpit: Summary of New Features in Recent SPs

7.02 SP 14 (7.30 SP10, 7.31 SP9-10, 7.40 SP4-5)
- Screen “System Configuration”: + Activation/Deactivation of Systems
- Screen “Dashboard”: new isy in Web Dynpro
- Screens “Compression Status” and “Compression Candidates”: changed & corrected former “Compression Status” Screen
- Screen “Automatic Maintenance Queue/ITS Requests”: new in SAP GUI
- Screen “Backup and Recovery”: highlighting of missing log files

7.02 SP 15 (7.30 SP11, 7.31 SP11-12, 7.40 SP6-7)
- Screen “Backup and Recovery”: enhanced with backup size, log volume information & graphics
- Main built of Web Dynpro screens ported to SAP GUI:

7.02 SP16 (7.30 SP12, 7.31 SP13, 7.40 SP8)
- Remaining relevant Web Dynpro screens ported to SAP GUI:
- Screen: “Workload Management → Threshold Configuration”: + Maximum Number of Concurrent DB Coordinator Activities

- New Screens (SAP GUI only):
More Information…

SAP Developer Network: DB2 for Linux, Unix, Windows
www.sdn.sap.com/irj/sdn/db6

IBM DB2 for Linux, Unix and Windows and SAP
www.ibm.com/software/data/db2/sap

DB2 with BLU Acceleration
www.ibm.com/software/data/db2/linux-unix-windows/db2-blu-acceleration/

IBM Redbook: Architecting and Deploying DB2 with BLU Acceleration in Your Analytical Environment

Deploying the IBM Banking Data Warehouse to IBM DB2 10.5 with BLU Acceleration
www.ibm.com/developerworks/community/wikis/home?lang=en#!/wiki/Wc9a068d7f6a6_4434_aece_0d297ea80ab1/page/Deploying%20the%20IBM%20Banking%20Data%20Warehouse%20to%20IBM%20DB2%2010.5%20with%20BLU%20Acceleration
Thank You