



CA Database Management for Db2 for z/OS 20.0 (Db2 Tools) Customer Community Update

Team Product Owners

September 13th, 2021

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Agenda

Sysview for Db2

- History Browsing Mode
- Data Sharing Group wide reports for IFCID 369 data
- Update of the SYSVIEW for Db2 Archive Tables

Detector

- Collection of Autonomous NSP activity

Plan Analyzer

- Choose which Strategy HVersion to Compare against

Level Set 20.0.01

- What's new

Please Provide Feedback...



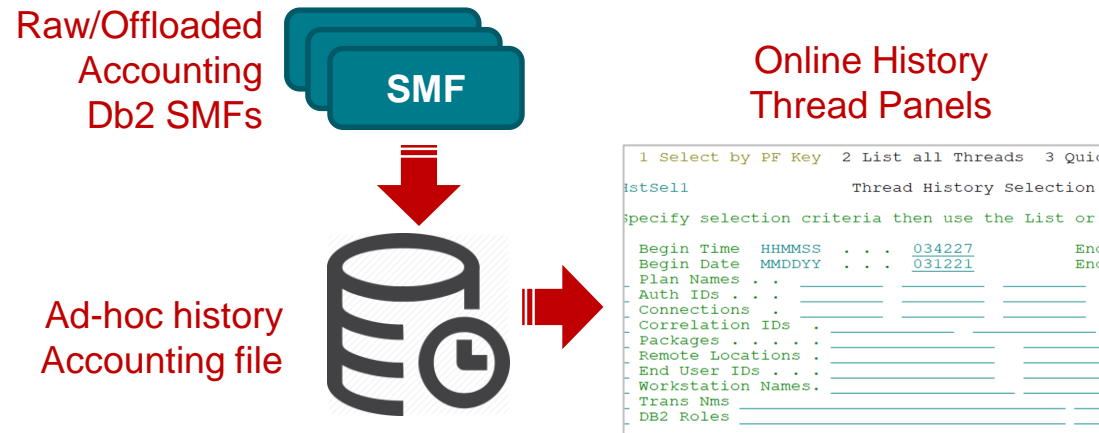


SYSVIEW for Db2 History Browsing Mode

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SYSVIEW for Db2 History Browsing Mode



- In Db2 environments with high transactional workload, the near-time history keeps a short time period of accounting data, when further history analysis is required, users cannot take the advantage of available online history reports in SYSVIEW for Db2 .

SYSVIEW for Db2 History Browsing Mode

We introduced a specialized data collector mode as an online alternative to batch reports for analysis of history data (PTF **LU02118**).

Users can designate a data collector for history access only using the new system parameter **DC-HISTORY-MODE**, and dynamically switch between the allocated SYSVIEW for DB2 history files.

SYSVIEW for Db2 History Browsing Mode

To get started, simply submit a job that executes the following steps:

1. Allocates new history files.
2. Loads the history files with Db2 statistics from an SMF file.
3. Starts the data collector in History-Only DC mode.

New sample JCLs that include all these steps are available in the SOURCE library.

Submit IDB2HDCJ (job) or IDB2HDCS (started task) to start the data collector in History-Only mode.

History-Only Data Collector Mode - Main Menu

```
Menu Print Tools Help  CA SYSVIEW for DB2  HIST CA31  07/28/21 03:21:47
                        20.0  HISTDV20  JIRAN01
Copyright (c) 2017 CA Technologies

History              History-Only Mode Menu
                    — 1 System History
                      2 Thread History
                      3 SQL Exec History

                      0 Manage History Datasets

Command ==> █
F1=Help              3=End              6=PickDB2
```

History-Only Data Collector Mode - Manage history files

```
Menu  Print  Tools  Help    CA SYSVIEW for DB2  HIST CA31  07/28/21 03:43:37
                             20.0          HISTDV20          JIRAN01

                                Manage History Datasets

                                Location HISTDV20

Accounting . . : TSPROD.IDB2.DEV200.HIST.HSTACCT
Statistics . . : TSPROD.IDB2.DEV200.HIST.HSTSTAT
SQL Database . :

Specify a fully qualified name with no quotation marks.
This command immediately reallocates history datasets for all users.

Command ==> 
F1=Help      3=End      4=End      5=RFind      6=RChange
F7=Up        8=Down
```

History-Only Data Collector Mode - Thread History List

```

Menu  Print  Tools  Help      CA SYSVIEW for DB2    FAKE CA11      07/28/21 06:04:01
                               20.0                    FAKEDV20      JIRAN01

Actions:  S=Select for more detail
R/HTLIST      Thread History List                                Item 55/1100
SORT OFF                                           Records Read First 03/10/16 10:13:50
From 03/10/16 10:13:54 To 03/10/16 10:29:58      306212 Last 03/10/16 10:29:58
DB2                                                  HHH:MM:SS M
  SSID      Time      Auth ID    Plan      Connect  Correlation Exc PM   DB2 Dur
. D11A 10:17:41.2322 STAST14  DISTSERV  SERVER   gtdatamaker.  0      0
. D11A 10:17:48.1496 STAST14  DISTSERV  SERVER   gtdatamaker.  0      0
. DH3G 10:17:50.8963 PLATDEV           DB2CALL  INTERNAL      0      0
. DH3G 10:18:15.2027 ZEIMA02           DB2CALL  INTERNAL      0      0
. D11A 10:18:33.1134 XCOMSTC  DISTSERV  SERVER   db2jcc_appli  0      0
. DD2G 10:18:48.0661 PLATDEV  IDBSQ18B  DB2CALL  PTX88IDC      0      0
. D11A 10:18:48.2293 PLATDEV  IDBSD18B  DB2CALL  PTX77IDC      0      0
. D12A 10:18:57.1235 PLATDEV           DB2CALL  INTERNAL      0      0
. D12A 10:18:57.1633 PLATDEV           DB2CALL  INTERNAL      0      0

Command ==> █
F1=Help      3=End
F7=Up        8=Down      10=Left      11=Right     12=Return

```

Please Provide Feedback...

PTF: LU02118

For further readings, please check:

- [Using History-Only DC Mode](#)
- [History-Only DC Mode](#)
- [Load Online History Files \(IDB2UIFI REQ=LOADHIST\)](#)

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SYSVIEW for Db2 for z/OS: Data sharing group wide reports for IFCID 369 data (aggregated accounting).

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Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- SYSVIEW for Db2 provides a real time report for aggregated accounting data aggregated by connection type. So a user can quickly identify what kind of workload (CICS, Batch, Utilities, etc.) is taking most of resources. This report is limited a single subsystem view only – while it is important to get a similar information for the whole data sharing group.
- We extended SYSVIEW for Db2 navigation and introduce new reports that display aggregated accounting information for both a single member and the data sharing group.

Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- The following new SYSVIEW for Db2 real-time reports are introduced:
 - CSACCTSG – displays accounting statistics that are aggregated by connection type summarized across the members of a data sharing group
 - CSACCTDG – displays the detailed accounting statistics aggregated for the selected connection type across all members of a data sharing group.
 - CSACCTSL – displays accounting statistics aggregated for the selected connection type and split by group members
- Existing CSACCTS and CSACCTD reports are updated to retrieve information from other members of a data sharing group

Data sharing group wide reports for IFCID 369 data (aggregated accounting).

- The system menu navigation is expanded to include new reports. Selecting the Data Sharing Group Summary ("*" row in the "DB2 Group Members" SYSPLEX report) now navigates to other two menu choices:
 - 1."SnapShot" GRPSTATS report (original)
 - 2."Acct Sum" CSACCTSG report (new)

“1” System Statistics -> “Select Db2 subsystem” -> “5” Acct Sum

| | | | | | | | | |
|--|------|---------------------------------|------------|------------|------------|--------------|------------|------------|
| <u>Menu</u> <u>P</u> rint <u>T</u> ools <u>H</u> elp | | <u>CA SYSVIEW for DB2</u> | | DT11 CA11 | 07/26/21 | 11:43:09 | | |
| | | 20.0 | | DTGPENDK3 | SNOOL01 | | | |
| _ 1 SnapShot | | 2 Buffer Pool | 3 EDM Pool | 4 Logs | 5 Acct Sum | 6 More... | | |
| R/CSACCTS | | Acct Stats by Conn Type - Accum | | | | Item 1/8 | | |
| SORT OFF | | | | | | <u>Accum</u> | | |
| Actions: S=Select for more detail | | | | | | | | |
| Connection | DB2 | Trans | Commits | App Elap | DB2 Elap | DB2 CPU | DB2 CP | DB2 zIIP |
| Type | DT11 | Count | + Aborts | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS |
| ALL | DT11 | 7496 | 56707 | 32:59:17 | 2:52:08 | 17:05 | 13:06 | 3:59 |
| IMS | DT11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CICS | DT11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRSAF | DT11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| UTILITY | DT11 | 601 | 31825 | 5:11:14 | 1:59:58 | 13:53 | 10:05 | 3:47 |
| BATCH | DT11 | 4707 | 22676 | 27:34:33 | 47:05 | 2:51 | 2:51 | 0 |
| DISTRIB | DT11 | 2188 | 2206 | 13:29 | 5:03 | 20 | 8 | 11 |
| REST API | DT11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

“1” System Statistics -> “Select Db2 subsystem” ->“5” Acct Sum -> “S=Select for more details”

| | | | | | | | |
|---|-----------------------------------|--------------|---------------|---------------------------|-----------|----------|--------------|
| <u>Menu</u> | <u>Print</u> | <u>Tools</u> | <u>Help</u> | <u>CA SYSVIEW for DB2</u> | DT11 CA11 | 07/26/21 | 11:15:49 |
| | | | | 20.0 | DTGPENDK3 | | SNOOL01 |
| | | | | | | | |
| R/CSACCTD | Acct Stats by Conn Detail - Accum | | | | | | Row 1/29 |
| SORT N/A | | | | | | | <u>Accum</u> |
| Data collection enabled since 07/26/21 10:56:14 | | | | | | | |
| Connection | CICS | Commits | 0 | Log Recs Write | | | 0 |
| Transactions | 0 | Aborts | 0 | Log Bytes Write | | | 0 |
| Child Rollup | 0 | | | Savepoint Requests | | | 0 |
| Subsystem | DT31 | | | Savepoint Rel Req | | | 0 |
| | | | | Savepoint Rolb Req | | | 0 |
| | | | | | | | |
| Application Times | --- Total --- | | | - Avg Trans - | | | |
| (Class 1) | HHHH:MM:SS.TT | | HHHH:MM:SS.TT | % App | 1 | 3 | 5 7 9 |
| Elapsed Time App | 0.00 | | 0.00 | Elpsd | ..0... | 0... | 0... |

“1” System Statistics -> “Selecting the Data Sharing Group Summary”

| | | | | | | | | | |
|-----------------------|--|--|----------------|---|------|-----------------------------|-------------------|--------------|--|
| Menu Print Tools Help | | | | CA SYSVIEW for DB2 | | DT31 CA31 | 07/26/21 11:22:23 | | |
| | | | | 20.0 | | DTGPENDK3 | SNOOL01 | | |
| _ 1 SnapShot | | | | 2 Acct Sum | | | | | |
| R/GRPSTATS | | | | System Snapshot - DS Group - Accumulate | | | | Row 1/26 | |
| | | | | | | | | <u>Accum</u> | |
| DATA SHARING (2) | | | | | | | | | |
| DB2 Group: DSNDTGP | | | | DC Group: SNOLDTGP | | | | | |
| Members: DT11 DT31 | | | | | | | | | |
| EXCEPTIONS | | | Crit | Warn | Info | BUFFERS | | | |
| Subsystem | | | 0 | 0 | 0 | Warnings 11104 | | | |
| Database | | | 0 | 0 | 2 | Act Pools 19 | | | |
| Applicatn | | | 0 | 0 | 0 | % Act Pgs 0.4 | | | |
| | | | Pct | Max | StIn | Getpages 1947M | | | |
| LIMITS | | | Current | Max | HWM | HWM | Sync Rds 41110K | | |
| Users | | | 21 | 1 | 22 | 14 | Read Eff 47.4 | | |
| TSO | | | 3 | 0 | 2 | 2 | Buf Updts 144M | | |
| Batch | | | 18 | 1 | 22 | 12 | Pg Writes 63012K | | |
| DDF Actv | | | 5 | 0 | 10 | 4 | Write I/O 7838K | | |
| DDF Inac | | | 46 | 4 | 35 | | | | |
| Dataset | | | 939 | 2 | | | | | |
| | | | | | | EDM POOL | | | |
| | | | | | | DBD Lds 22763K % Rqsts 97.4 | | | |
| | | | | | | CT Lds 71 % Rqsts 0.8 | | | |
| | | | | | | PT Lds 297 % Rqsts 0.3 | | | |
| | | | | | | Dyn Ins 2865 % Rqsts 2.4 | | | |
| | | | | | | LOCKING | | | |
| | | | | | | Suspend 177K Dlyd Wrts 71 | | | |
| | | | | | | Escalate 33 Arch Read 4M | | | |
| | | | | | | Timeout 0 Min/Chkpt 21 | | | |
| | | | | | | Deadlock 0 Warnings 0 | | | |
| SQL | | | ADDRESS SPACES | | | THREADS | | | |
| Dynamic | | | 95968 | DB2 Pct CPU | | 0.3 | Active | | |
| Ins+Upd+Dlt | | | 4220K | DB2 WSS (K) | | 2911504 | Count 21 | | |
| Open+Select | | | 2073K | DB2 Up Time | | 38:23:05 | Commits 8 | | |
| Accelerator | | | 0 | | | | Aborts 0 | | |
| | | | | | | | DB2 CPU 239.976 | | |
| | | | POOL FAILURES | | | | | | |
| STORED PROCEDURES | | | RID | | | 0 | | | |
| SQL CALLs | | | 153 | EDM | | | 0 | | |
| Failures | | | 0 | Starjoin | | | 0 | | |

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum”

Menu Print Tools Help CA SYSVIEW for DB2 DT31 CA31 07/26/21 11:24:35
20.0 DTGPENDK3 SNOOL01

1 SnapShot 2 Acct Sum

R/CSACCTSG DSG Acct Stats by Conn Type - Accum Item 1/8
SORT OFF Accum

Actions: S=Select for details, L=List by member

| Connection Type | Trans Count | Commits + Aborts | App Elap HHHH:MM:SS | DB2 Elap HHHH:MM:SS | DB2 CPU HHHH:MM:SS | DB2 CP HHHH:MM:SS | DB2 zIIP HHHH:MM:SS | DB2 Other HHHH:MM:SS |
|-----------------|-------------|------------------|---------------------|---------------------|--------------------|-------------------|---------------------|----------------------|
| ALL | 19902 | 174418 | 141:30:29 | 13:03:53 | 40:00 | 33:46 | 6:14 | 1:43:15 |
| IMS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CICS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RRSAF | 462 | 1319 | 3:18 | 1:15 | 22 | 21 | 0 | 20 |
| UTILITY | 2385 | 78195 | 8:59:32 | 3:34:05 | 25:23 | 19:42 | 5:40 | 51:33 |
| BATCH | 13166 | 90949 | 131:25:57 | 8:45:26 | 13:21 | 13:21 | 0 | 13:12 |
| DISTRIB | 3889 | 3955 | 1:01:41 | 43:05 | 53 | 20 | 32 | 38:09 |
| REST API | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “S=Select for details”

| | | | | | | | | |
|-------------------------------|-------|---------------------------------------|---------------|--------------------|--------------------|--------------------|-------------------|------|
| Menu | Print | Tools | Help | CA SYSVIEW for DB2 | | DT31 CA31 | 07/26/21 11:28:02 | |
| | | | | 20.0 | | DTGPENDK3 | SNOOL01 | |
| R/CSACCTDG | | DSG Acct Stats by Conn Detail - Accum | | | | | Row 1/58 | |
| SORT N/A | | | | | | | Accum | |
| Data collection enabled since | | 07/26/21 10:56:14 | | | | | | |
| Connection | | UTILITY | Commits | 78195 | Log Recs Write | 438450 | | |
| Transactions | | 2385 | Aborts | 0 | Log Bytes Write | 800425771 | | |
| Child Rollup | | 0 | | | | Savepoint Requests | 0 | |
| Datashr Group | | DSNDTGP | | | | Savepoint Rel Req | 0 | |
| | | | | | Savepoint Rolb Req | 0 | | |
| Application Times | | --- Total --- | | - Avg Trans - | | | | |
| (Class 1) | | HHHH:MM:SS.TT | HHHH:MM:SS.TT | % App | 1 | 3 | 5 | 7 9 |
| Elapsed Time App | | 8:59:32.16 | 13.57 | Elpsd | ..0... | 0... | 0... | 0... |
| CPU Time Appl | | 31:47.64 | 0.79 | 5.9 | F | | | |
| TCB Time Appl | | 26:06.79 | 0.65 | 4.8 | | | | |
| zIIP Appl CPU | | 5:40.85 | 0.14 | 1.1 | | | | |
| DB2 Times | | --- Total --- | | - Avg Trans - | | | | |
| (Class 2) | | HHHH:MM:SS.TT | HHHH:MM:SS.TT | % DB2 | 1 | 3 | 5 | 7 9 |
| Total DB2 Elapsed | | 3:34:05.63 | 5.38 | Elpsd | ..0... | 0... | 0... | 0... |
| Total DB2 CPU | | 25:23.22 | 0.63 | 11.9 | L | | | |
| TCB Time DB2 | | 19:42.37 | 0.49 | 9.2 | | | | |
| Local DB2 zIIP | | 5:40.85 | 0.14 | 2.7 | | | | |
| Other DB2 Time | | 51:33.00 | 1.29 | 24.1 | | | | |
| Eligible Times | | --- Total --- | | - Avg Trans - | | | | |
| | | HHHH:MM:SS.TT | HHHH:MM:SS.TT | % DB2 | 1 | 3 | 5 | 7 9 |
| zIIP Not Used | | 0.38 | 0.00 | 0.0 | ..0... | 0... | 0... | 0... |
| Elig Accel Elaps | | 0.00 | 0.00 | 0.0 | I | | | |
| | | | | | | | | |

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “L=List by member”

| | | | | | | | | | |
|---|------|---------------------------|----------|--------------------------------------|------------|-------------------|------------|------------|------------|
| <u>Menu</u> <u>Print</u> <u>Tools</u> <u>Help</u> | | <u>CA SYSVIEW for DB2</u> | | DT31 CA31 | | 07/26/21 11:30:47 | | | |
| | | 20.0 | | DTGPENDK3 | | SNOOL01 | | | |
| R/CSACCTSL | | | | DSG Acct Stats for Conn Type - Accum | | | | | |
| SORT OFF | | | | Item 1/2 | | | | | |
| Actions: S=Select for more detail | | | | <u>Accum</u> | | | | | |
| Connection | DB2 | Trans | Commits | App Elap | DB2 Elap | DB2 CPU | DB2 CP | DB2 zIIP | DB2 Other |
| Type | * | Count | + Aborts | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS | HHHH:MM:SS |
| BATCH | DT11 | 4651 | 22589 | 27:31:12 | 46:08 | 2:51 | 2:51 | 0 | 3:45 |
| BATCH | DT31 | 8591 | 68498 | 104:19:18 | 8:02:07 | 10:30 | 10:30 | 0 | 9:52 |

“1” System Statistics -> “Selecting the Data Sharing Group Summary” -> “2 Acct Sum” -> “L=List by member” -> “S=Select for more detail”

| | | | | | |
|--|---------------|---------------------------|-------|--------------------|-------------------|
| <u>Menu</u> <u>P</u> rint <u>T</u> ools <u>H</u> elp | | <u>CA SYSVIEW for DB2</u> | | DT31 CA31 | 07/26/21 11:36:43 |
| | | 20.0 | | DTGPENDK3 | SNOOL01 |
| R/CSACCTD Acct Stats by Conn Detail - Accum | | | | | Row 1/60 |
| SORT N/A | | | | | <u>Accum</u> |
| Data collection enabled since 07/26/21 10:56:14 | | | | | |
| Connection | BATCH | Commits | 68443 | Log Recs Write | 59815019 |
| Transactions | 8615 | Aborts | 91 | Log Bytes Write | 14381760K |
| Child Rollup | 0 | | | Savepoint Requests | 0 |
| Subsystem | DT31 | | | Savepoint Rel Req | 0 |
| | | | | Savepoint Rolb Req | 0 |
| Application Times --- Total --- - Avg Trans - | | | | | |
| (Class 1) | HHHH:MM:SS.TT | HHHH:MM:SS.TT | % App | 1 | 3 |
| Elapsed Time App | 104:25:05.55 | 43.63 | Elpsd | ..0... | 0... |
| Storeproc Elapsd | 4.13 | 0.00 | 0.0 | | |
| CPU Time Appl | 12:51.35 | 0.08 | 0.2 | | |
| TCB Time Appl | 12:51.14 | 0.08 | 0.2 | | |
| TCB Time StorPrc | 0.21 | 0.00 | 0.0 | | |

Please Provide Feedback...

PTF: LU02303

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Update of the SYSVIEW for Db2 Archive Tables

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Context

- Previously, the documentation was only showing Db2 column names and IQL field names for each archive table.
- We received feedback from several customers who wanted to see the content of the fields in the archive tables.

Solution

- We matched IQL fields with the descriptions from our help panels.
- The output also includes Db2 field names.
- We prepared a sample table, for which we got a positive feedback from the customer.
- The data was moved to the doc, making sure that display and readability are fine.

Before



Columns with Common IQL Field Names

The following table lists the DB2 column name in the SUBSYS_BP_PARMS table with the corresponding common IQL field name:

| DB2 Column Name | Characteristics | Common IQL Field Name |
|------------------|-----------------|-----------------------|
| RECORD_DATE_TIME | TIMESTAMP | EVENT-TIME |
| SYSTEM_ID | CHAR(4) | MVS-SMF-ID |
| SUBSYSTEM | CHAR(4) | SUBSYS |

After

Columns with Common IQL Field Data



The following table lists the Db2 column name in the SUBSYS_BP_PARMS table, with the corresponding IQL field name and Db2 field name.

| Db2 Column Name | Characteristics | IQL Field Name | Db2 Field Name | Field Description |
|------------------|-----------------|----------------|----------------|--|
| RECORD_DATE_TIME | TIMESTAMP | EVENT-TIME | QWHSSTCK | The store clock time when the trace record was produced. |
| RELEASE | CHAR(4) | DB2-RLSE-NUM | N/A | The Db2 version and release in the vv.r format. |
| SUBSYSTEM | CHAR(4) | SUBSYS | QWHSSSID | The Db2 subsystem name as defined in SYS1.PARMLIB(IEFSSNxx). |

Outcome and Follow-up

- The Subsystem archive tables were fully updated (21 tables).
- Half of the Application archive tables were updated (6/12).
- All remaining archive tables will be updated in the next Quarter.

Please Provide Feedback...

- SYSVIEW for DB2
<https://techdocs.broadcom.com/us/en/ca-mainframe-software/database-management/ca-sysview-performance-management-option-for-db2/20-0.html>
- Subsystem Archive Tables
<https://techdocs.broadcom.com/us/en/ca-mainframe-software/database-management/ca-sysview-performance-management-option-for-db2/20-0/reference/archive-tables/subsystem-archive-tables.html>

TIP: If you are on a small screen, minimize the left menu for the best possible display.

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Collection of Autonomous NSP activity

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| ANSPs

- Autonomous Native Stored Procedures (ANSPs) were added in Db2 11
- ANSPs execute under their own units of work, separate from the calling program, and commit when they finish without committing the work of the calling program.
- Because ANSPs run under their own unit of work their activity is not being collected by Detector

| PDT ANSP Collection

- Detector® for DB2 for z/OS now supports autonomous native stored procedures (ANSPs).
- Specify Triggered SQL=Y on the Start Collection panel or TRG(Y) in your START(DTR) command when you start the collection.
- This option collects statistics from native stored procedures (including ANSPs), triggered SQL, and native SQL UDFs.

I ANSP Collection

```
20.0 ----- DETECTOR Start Collection Display ----- 21/09/10 15:20
Command ==>

DB2 SSID ==> D12A

Specify collection options:
Triggered SQL ==> Y (Y/N) Plan Excl/Incl List ==> Y (Y/N)

SQL collection options:
Standard Activity ==> Y (Y/N)
Dynamic SQL Stats ==> Y (Y/N) (Requires profile)
View By Keys ==> Y (Y/N) (Requires profile)
Dynamic Exceptions ==> Y (Y/N) (Requires profile)
Static Exceptions ==> Y (Y/N) (Requires profile)
SQL Errors ==> Y (Y/N/A) (Requires profile)
SQL Error Text ==> Y (Y/N)
Host variables ==> Y (Y/N) (applies to all options)

Collection Profile ==> COLLALL_ Exception cache size MB ==> 0020 (1-20)
```

Please Provide Feedback...

Collection of Autonomous NSP activity
PTF: LU02554

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Choose which Strategy HVersion to Compare against

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| Can only use prior Strategy version

- When comparing Strategy versions in Plan Analyzer's Explain Strategy Services the Strategy version used is always the prior one.
- There is no way to create a Baseline Strategy version and run multiple compares against it..
- Running your second compare would will compare against the previous compare's HVersion.
- This behavior is specific to Strategy HVersions.

| Select Historical Strategy Version

Plan Analyzer® for DB2 for z/OS now allows you to choose which historical strategy version of an explain strategy to compare against your SQL source version.

| Select Historical Strategy Version

```
----- PPA Compare Versions Report Options ----- 2021/09/10 15:49
COMMAND ==> _

Report Inclusion Options
Change Level ==> E    B - Changed/Unchanged    S - SQL changed
                  E - Either changed           A - Access changed
                  N - SQL unchanged and Access changed
Paired stmts ==> P    B - Paired/Unpaired      P - Paired          U - Unpaired
Comparison Options
Compare Creator ==> N    Cost Margin (ms) =>      (su) =>      (tc) =>

Formatting Options
SQL/Access Path ==> B    B - Show SQL and Access    S - Show SQL only
                  C - Show the change only        A - Show Access only
SQL version ==> E    E - Show once if equal        O - Show OLD version
Access version ==> E    B - Show both versions      N - Show NEW version
Host Variables ==> N    B - Show Changed/Unchanged  C - Show Change Only
                  N - Do not show
Suppress Report ==> Y    Y - No SQL and/or Access changes  N - Show report

Old HVersion ==> AAAATEST Level => V00033
Options ==> Y    Y - Save N - Use
```

I Select Historical Strategy Version

```
Old HVersion    ==> AAAATEST Level => ?
Options         ==> Y    Y - Save N - Use
```

```
----- PPA Strategy HVersion Level Selection List ----- 2021/09/10 15:53
COMMAND ==> _                                           SCROLL ==> PAGE
                                                         LINE 1 OF 6
```

```
Strategy ==> AAAATEST          DB2 SSID ==> D12A          Version ==> 121M500
----- BADANA2
```

| CMD | VERSION | DESCRIPTION | CREATOR | TDC | S | USER | DATE | TIME |
|-----|---------|----------------------|---------|-----|---|---------|------------|-------|
| — | V00033 | VERSION AUTO CREATED | STERY01 | CS | U | CARDOA9 | 2020-11-02 | 17.47 |
| — | V00034 | VERSION AUTO CREATED | STERY01 | CSY | U | CARDOA9 | 2020-11-02 | 17.48 |
| — | V00037 | VERSION AUTO CREATED | STERY01 | CSY | U | STERYA1 | 2020-11-16 | 14.14 |
| — | V00038 | VERSION AUTO CREATED | STERY01 | CSY | U | STERYA1 | 2020-11-16 | 14.17 |
| — | V00039 | VERSION AUTO CREATED | STERY01 | CSY | U | STERY01 | 2020-11-16 | 16.12 |
| — | V00040 | VERSION AUTO CREATED | STERY01 | CSY | U | STERY01 | 2020-11-16 | 16.14 |

***** BOTTOM OF DATA *****

Please Provide Feedback...

Choose which Strategy HVersion to Compare against
PTF: LU01891

Andrew Badgley
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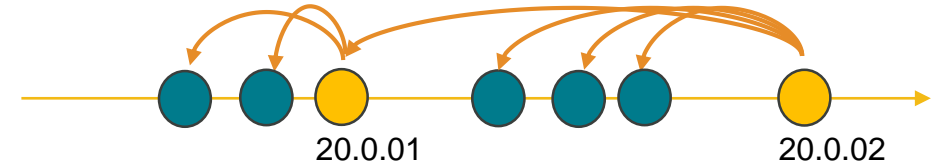
Db2 Tools Level Set 20.0.01

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| What is a Level Set?

- Level Set PTF ●
 - Introduced as part of Continuous Delivery
 - Prereqs all PTFs ● since previous Level Set PTF
 - Applying this PTF ensures that all maintenance is current to that point
 - Product version string expanded – 20.0.*mm*
 - May introduce new functionality once the Level Set is activated
- Level Set 20.0.01 now available (LU01290)
 - PPA - Collection of Compare History Records by the Compare Reports
 - Xmanager - Maintenance Rollout Independence



PPA - Collection of Compare History Records by the Compare Reports

- PTF LU00440 introduced a new Compare Summary Report in Plan Analyzer.
- When introduced this new report required a Compare History report to be generated so that the necessary Compare information was available for the Compare Summary Report.
- Activation of Level Set 20.0.01 modifies the existing Compare and Compare Version Cost reports to collect the necessary Compare information for the Compare Summary Report.
- More information on the Compare Summary Report:
 - [Documentation](#)
 - [April's Community Update](#)

Xmanager - Maintenance Rollout Independence

- Until now Xmanager Maintenance Rollout required that all Xmanagers have their maintenance updated at the same time.
- For large shops with multiple Xmanagers the coordination required can be complicated
- Activation of Level Set 20.0.01 allows you the flexibility, if you choose, to rollout Xmanager maintenance one Xmanager at a time as long as the Xmanagers are using separate runtime libraries.
- More information on Maintenance Rollout Independence
 - [March's Community Update](#)

| Level Set 20.0.01 Activation

- How do I activate Level Set 20.0.01?
 - [Documentation](#)
 - [March's Community Update](#)
 - [October's MTE Event](#) – [Session DM02-S](#)

Please Provide Feedback...

Level Set 20.0.01
PTF: LU01290

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In Closing...

When is the next Community Update call?

The 2nd Monday of each month

Our next call will be October 11th, 2021

Did you miss our last call (in July)?

The replay is available [here](#).

CA Db2 Tools 20.0 Validation Project

<https://validate.broadcom.com/key/DB2Tools200>

Check out our new education offerings


As an **active maintenance customer**, you can consume our **web-based training** courses and **digital badges** at **no cost** to you.

What's New

| Course Code | Title |
|-------------|--|
| 06RCQ20010 | CA RC/Query® for DB2 for z/OS Database Administration Tasks Command Overview 200 |
| 06SYS2026E | CA SYSVIEW® Performance Management Option for DB2 for z/OS - Intermediate - Digital Badge Assessment |
| 06DBT2058E | Log Analyzer™ for Db2 for z/OS: Fundamentals Digital Badge Assessment |

- For more information about how to access this training and the digital badge assessment, [watch this two-minute video](#).
- Search for courses and digital badges by course name, product name, or course code in our [Mainframe Course Catalog](#).

CA Database Performance Management for Db2


Web-based training is provided at no cost for customers on active maintenance.
Customers: To learn more about the training options and to take web-based training, visit [Mainframe Education](#) and click TRAINING LOGIN. After logging in, search by course name or course code.
Broadcom employees: Access Mainframe Education via your [Learning@Broadcom](#) tile.

Learning Path

Administrator/Implementer

| Course Name | Code | Type | Length |
|--|----------------------------|-----------|-----------|
| CA Database Management for Db2 YouTube Playlist | Playlist | Videos | |
| Optimizing CA Database Performance Management for DB2 for z/OS 100 | 06DBT10090 | Web-Based | .75 Hours |
| CA SYSVIEW® Performance Management Option for DB2 Overview 100 | 06SYS10110 | Web-Based | .25 Hours |
| CA SYSVIEW® Performance Management Option for DB2 Set Up Your User Profile 200 | 06SYS20250 | Web-Based | .25 Hours |
| CA SYSVIEW® Performance Management Option for DB2: Monitor Pool Metrics at the SSID Level 200 | 06SYS20260 | Web-Based | .25 Hours |
| CA SYSVIEW® Performance Management Option for DB2: Monitor Application and Thread Performance 200 | 06SYS20270 | Web-Based | .5 Hours |
| CA SYSVIEW® Performance Management Option for DB2: Monitor Current and Historical SQL Activity 200 | 06SYS20280 | Web-Based | .25 Hours |
| CA SYSVIEW® Performance Management Option for DB2: Work with Probe and Trace Requests 200 | 06SYS20290 | Web-Based | .25 Hours |
| CA SYSVIEW® Performance Management Option for DB2: Use the Exception Monitor 200 | 06SYS20300 | Web-Based | .25 Hours |

To learn more about these courses, visit the following Learning Paths:

- [CA Database Administration for DB2](#)
- [CA Database Backup and Recovery for DB2](#)
- [CA Database Performance Management for DB2](#)
- [CA Database Tuning Optimizing and Testing for DB2](#)

Mainframe Technical Exchange

October 5-7, 2021

We're gearing up for the Mainframe Technical Exchange and looking forward to connecting with you October 5 - 7! With over **140 interactive sessions** across 7 tracks, there's sure to be something for everyone.

Here are a few not-to-miss **Database Management for Db2** sessions:

An Exploration of Db2 DevOps Use Cases

Tuesday, October 5 | 12:00 PM ET

Data Recoverability, Risk Management and Necessary Compliance with Fast Recover and Recovery Estimator

Thursday, October 7 | 11:00 AM ET

Restart Enabling Your Business-Critical Applications

Thursday, October 7 | 12:00 PM ET

Save your spot to connect with technical experts and peers:

<http://bit.ly/2021TechExchange>



Thank You