



# Database Management for Db2 for z/OS 20.0 (Db2 Tools) Community Update Call

Db2 Tools Product Team  
March 13th, 2023

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# Agenda (1|2)

- Log Analyzer
  - Enhancements for ALTER TABLESPACE Support for DDL Reports and Redo/Undo
- Fast Load
  - Elapsed time improvement for PBR tablespace
  - PBG Compression Optimization and Improved zIIP Offload Support
- Fast Unload
  - Enhancement to Define Columns to Exclude from an Unload

# Agenda (2|2)

- RC/Migrator
  - Syntax Checker Support for ALTER TABLE ALTER PARTITIONING Clause
- RC/Query
  - Support for New Temporal Table Clauses
- Thread Terminator
  - Additional zPARMS displayed
- Sysview for Db2
  - Sysview for Db2 reporting updates



# Log Analyzer

PATTERN  
RECOGNITION

MACHINE  
LEARNING

ALGORITHM

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# Enhancements for ALTER TABLESPACE Support for DDL Reports and Redo/Undo

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# Log Analyzer - Enhancements for ALTER TABLESPACE Support for DDL Reports and Redo/Undo

PTFs: LU08636, LU08637

- New support for ALTER TABLESPACE statements:

- BUFFERPOOL
- DSSIZE
- INSERT ALGORITHM
- MAXPARTITIONS
- MEMBER CLUSTER
- SEGSIZE

- Available for DDL report,  
and UNDO/REDO SQL generation





# Any Feedback...?

PTFs: LU08636, LU08637

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## Fast Load

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# Elapsed time improvement for PBR tablespace

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# Fast Load – Elapsed time improvement for PBR tablespace

PTFs: LU09132, LU09133

- Newly introduced Parallel Processing Support for PBR Tablespaces
- Under conditions:
  - single INDDN data set is used
  - RECLUSTER NO SORT-CLINDX, NO SORT-NONE, or YES SORT-CLINDX



up to -70% in elapsed time for PBR tablespaces and -20% for other types of tablespaces\*

\*Note: These percentages are based on benchmarks that are run in our labs. Performance can vary depending on the z/OS environment and application workload.

# Any Feedback...?

PTFs: LU09132, LU09133

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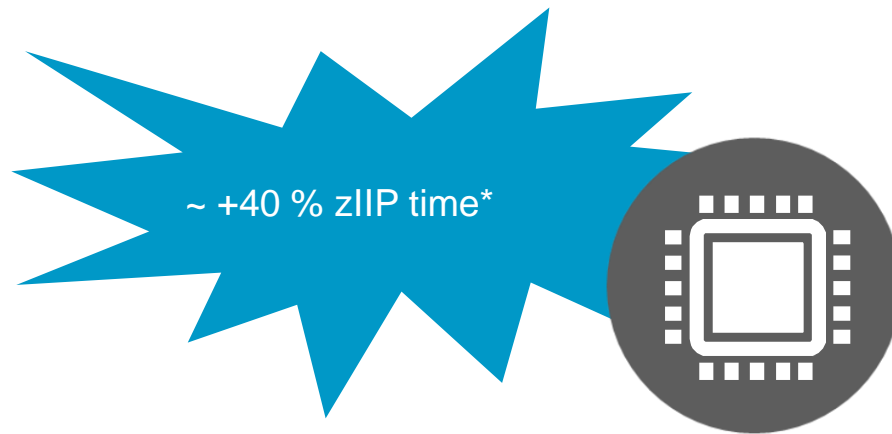
# PBG Compression Optimization and Improved zIP Offload Support

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# Fast Load – PBG Compression Optimization and Improved zIIP Offload Support

PTFs: LU08283, LU08284, LU08285, LU08408

- Improved elapsed time needed to process compressed partition-by-growth (PBG) tablespace
- Increased zIIP offload for all tablespace types



\*Note: These percentages are based on benchmarks that are run in our labs. Performance can vary depending on the z/OS environment and application workload.

# Any Feedback...?

PTFs: LU08283, LU08284, LU08285, LU08408

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## Fast Unload

  
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# Enhancement to Define Columns to Exclude from an Unload

Martin Sacha | Software engineer | [martin.sacha@broadcom.com](mailto:martin.sacha@broadcom.com)

# Enhancement to Define Columns to Exclude from an Unload

PTFs: LU08873

- Unload all columns from a given table except named one(s)
- Manually listing most columns can be error prone:
  - at the time of JCL creation
  - when the DDL is changed (ie. new column added or dropped)
- Creating persistent VIEW for an unload may not be practical

# Enhancement to Define Columns to Exclude from an Unload

```
SELECT ALTEREDTS, CCSID, COLCARD, COLCARDF, COLNO, COLSTATUS,  
COLTYPE, CONTROL_ID, CREATEDTS, DATATYPEID, DEFAULT, DEFAULTVALUE,  
ENCODING_SCHEME, FLDPROC, FOREIGNKEY, GENERATED_ATTR,  
HASHKEY_COLSEQ, HIDDEN, HIGH2KEY, IBMREQD, KEYSEQ, LABEL, LENGTH,  
LENGTH2, LOW2KEY, NAME, NULLS, PARTKEY_COLSEQ, PARTKEY_ORDERING,  
PERIOD, RELCREATED, REMARKS, SCALE, SOURCETYPEID, STATSTIME,  
STATS_FORMAT, TBCreator, TBNAME, TYPENAME, UPDATES, XML_TYPEMOD_ID  
FROM SYSIBM.SYSCOLUMNS  
WHERE TBCreator = 'SYSIBM' AND TBNAME = 'SYSCOLUMNS'
```

Did you notice? We are omitting column 'TYPESCHEMA'.

# Enhancement to Define Columns to Exclude from an Unload

```
SELECT * EXCLUDE TYPESHEMA  
FROM SYSIBM.SYSCOLUMNS  
WHERE TBCREATOR = 'SYSIBM' AND TBNAME = 'SYSCOLUMNS'
```

Did you notice? We are omitting column 'TYPESHEMA'.

# Any Feedback...?

PTF: LU08873

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## RC/Migrator

  
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# PBG to PBR2 conversion through ALTER TABLE... ALTER PARTITIONING. from Syntax Checker

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# PBG to PBR2 - Syntax Checker to support ALTER TABLE... ALTER PARTITIONING in Db2 13 subsystems

```
***** Top of Data *****
000001
000002  ALTER TABLE CREATOR1.TABLE01
000003  ALTER PARTITIONING TO PARTITION BY RANGE (ACCT_NUM)
000004  (PARTITION 1 ENDING AT (199),
000005  PARTITION 2 ENDING AT (299),
000006  PARTITION 3 ENDING AT (399),
000007  PARTITION 4 ENDING AT (MAXVALUE) );
000008
***** Bottom of Data *****
```

```
RMSYNO      ----- RC/M Syntax Checker Report ----- 23/03/13 10:10
COMMAND ==> _                                           SCROLL ==> CSR
RM222I: No syntax errors were found.
----- USER ID: ADUSR01 -----

23/03/13      DDL Syntax Checker      10:10:08
              Syntax Error Report
              RD200 PRD ENVIRONMENT

              Syntax check completed.  No errors found.

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

# PBG to PBR2 - Syntax Checker to support ALTER TABLE... ALTER PARTITIONING in Db2 13 subsystems

```
***** Top of Data *****
000001
000002  ALTER TABLE CREATOR1.TABLE01
000003  ALTER PARTITIONING TO PARTITION BY RANGE (ACCT_NUM)
000004  (PARTITION 1 ENDING AT (199),
000005   PARTITION 2 ENDING AT (299),
000006   PARTITION 3 ENDING AT (399),
000007   PARTITION 4 ENDING AT (499));
000008  _
***** Bottom of Data *****
```

Above syntax is the error scenario:

- Last partition should be MAXVALUE or MINVALUE based on the order of data
- If the PBG is defined with DATA CAPTURE CHANGES, number of partitions for PBR2 must be at least MAXPARTITIONS of PBG (should not be lower). If PBG is defined with DATA CAPTURE NONE, then its okay.

# PBG to PBR2 - Syntax Checker to support ALTER TABLE... ALTER PARTITIONING in Db2 13 subsystems

```
RMSYNO      ----- RC/M Syntax Checker Report ----- 23/03/13 10:12
COMMAND ==>                                     SCROLL ==> CSR
RM221I: Syntax errors were found in your dataset.
----- USER ID: ADUSR01

23/03/13      DDL Syntax Checker      10:12:30
              Syntax Error Report
              RD200 PRD ENVIRONMENT

Syntax Error in statement beginning on line number 2
of the input DDL file.

ALTER TABLE CREATOR1.TABLE01 ALTER PARTITIONING TO PARTITION BY RANGE (
ACCT_NUM ) ( PARTITION 1 ENDING AT ( 199 ) , PARTITION 2 ENDING AT (
299 ) , PARTITION 3 ENDING AT ( 399 ) , PARTITION 4 ENDING AT ( 499 )
)

*****
DDL00828: Invalid limit key syntax for partition 4.
          Last partition limit key value must be MAXVALUE.
*****
***** BOTTOM OF DATA *****
Press UP/DOWN to scroll      Press END to go back
*RMP$SYN
```

# Any Feedback...?

PTF: LU09207, LU09208

**Note:** RC/Update, RC/Compare are in progress

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## RC/Query

  
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# Support for New Temporal Table Clauses

*Srinivas Adupa* | *Product Owner*

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# Temporal Tables – newly added clauses

RC/Query is now able to generate the DDL for Temporal tables with the below newly added clauses:

- 1) FOR
- 2) INCLUSIVE
- 3) EXCLUSIVE
- 4) PERIOD FOR BUSINESS\_TIME

in CREATE/ALTER TABLE DDL



# Temporal Tables – Screenshot 1

```
EDIT          BATCH.PROCESSOR.INPUT          Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000019    GENERATED ALWAYS AS ROW END
000020          ,BUS_START TIMESTAMP (6) WITHOUT TIME ZONE
000021                                     NOT NULL
000022          ,BUS_END TIMESTAMP (6) WITHOUT TIME ZONE
000023                                     NOT NULL
000024          ,CONSTRAINT ID PRIMARY KEY
000025          (ID
000026          ,BUS_START
000027          ,COVERAGE
000028          ,BUS_END
000029          )
000030          , PERIOD FOR BUSINESS_TIME
000031          (BUS_START
000032          ,BUS_END INCLUSIVE
000033          )
000034          )
000035    APPEND NO
000036    LOGGED
000037    DSSIZE 4G
```



# Temporal Tables – Screenshot 2

```
EDIT      BATCH.PROCESSOR.INPUT      Columns 00001 00072
Command ==> _____ Scroll ==> CSR
000007  - CREATE TABLE JALRA04.TAB_PERIOD_BUSINESS
000008      (POLICY_ID CHARACTER(4) FOR SBCS DATA
000009                      NOT NULL
000010      , COVERAGE INTEGER
000011                      NOT NULL
000012      , SYS_START TIMESTAMP (12) WITHOUT TIME ZONE
000013                      NOT NULL
000014      GENERATED ALWAYS AS ROW BEGIN
000015      , SYS_END TIMESTAMP (12) WITHOUT TIME ZONE
000016                      NOT NULL
000017      GENERATED ALWAYS AS ROW END
000018      , BUS_START TIMESTAMP (6) WITHOUT TIME ZONE
000019                      NOT NULL
000020      , BUS_END TIMESTAMP (6) WITHOUT TIME ZONE
000021                      NOT NULL
000022      , PERIOD FOR BUSINESS_TIME
000023      (BUS_START
000024      , BUS_END EXCLUSIVE
000025      )
```

# Any Feedback...?

PTF: LU09136 – LU09138

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# Thread Terminator

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# Additional zPARMS displayed

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# Thread Terminator Catch Up

PTF: LU09264

- ALTERNATE\_CP
- CACHEDYN\_STABILIZATION
- COMPRESS\_DIRLOB
- COPY\_FASTREPLICATION
- FTB\_NON\_UNIQUE\_INDEX
- LOAD\_RO\_OBJECTS
- PAGESET\_PAGENUM
- PEER\_RECOVERY
- REORG\_TS\_NOPAD\_DEFAULT
- RLFENABLE
- RLFERRDSTC
- RLFERRSTC
- STATFDBK\_PROFILE
- STATIME\_MAIN
- STATPGSAMP
- TS\_COMPRESSION\_TYPE
- UTIL\_DBBSG
- UTIL\_LGBSG
- UTILS\_BLOCK\_FOR\_CDC
- UTILS\_HSM\_MSGDS\_HLQ
- UTILS\_USE\_ZSORT

# VZ – View DSNZPARM Data

```
. 20.0.07 ----- Thread Terminator Main Menu ----- 23/03/11 11:33 .
. OPTION ====> VZ_ .
.
. DB2 SSID ==> D13A USERID ==> BADANA2 .
. ----- .
. Thread Monitor/Termination Maintain DB2 Parameters .
. 1 DB2 subsystem list U Update DB2 Parameters .
. 2 Active thread list .
. 3 Batch termination View DB2 Parameters .
. 4 Manage thread monitor VZ View DSNZPARM Data .
. 5 Terminate table users VD View DSNHDECP Data .
. 6 Terminate pageset users VI View IRLM Data .
. 7 Thread monitor profiles .
.
. Manage DB2 Environment Other Options .
. 8 Add active logs M Xmanager startup options .
. 9 Replace exit routines P Product Profile .
. T Tutorial .
. X Exit .
.
. ----- Copyright (c) 2017 CA All Rights Reserved ----- .
```

# VZ – View DSNZPARM Data

```
----- Thread Terminator DSNZPARM Display ----- 23/03/11 11:40
Command ==> Scroll ==> CSR
LINE 1 OF 363

DB2 SSID ==> D13A Lmod Name ==> D13APARM Assem Date ==> 01/29/23

-----
DESCRIPTION                               VALUE      KEYWORD
-----
Invoke explain processing during automatic bind. YES      ABEXP
Allow automatic bind for plans and packages. YES      ABIND
Accelerator servers startup option. NO        ACCEL
Enable accelerator query savings modeling. NO        ACCELMODEL
Access control module. DSNX@XAC    ACCESS_CNTL_MODU>
Rollup accounting for DDF and RRSF. 10        ACCUMACC
Rollup accounting aggregation fields. 0         ACCUMUID
Admin Scheduler JCL proc name. ADMTPROC
Access control exit shutdown threshold. 10       AEXITLIM
Allocation space type for archive log datasets. CYL    ALCUNIT
Alternate SMS copy pool for BACKUP SYSTEM. ALTERNATE_CP
Application compatibility level. V13R1M501  APPLCOMPAT
Archive log COPY1 dataset name prefix. D13A.ARCH> ARCPFX1
Archive log COPY2 dataset name prefix. D13A.ARCH> ARCPFX2
```

# Any Feedback...?

PTF: LU09264

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## Sysview for Db2

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# Sysview for Db2 reporting updates

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# REBIND PHASE-IN COPYID (IFCIDs 3 & 239)

## PTF: LU08986

- IFCIDs 3 and 239 have been updated in support of the Db2 12 REBIND PHASE-IN enhancement. This was introduced as part of Db2 12 M505. IBM APAR PH05989 is also required.
- Updated IQL reports
- Explain Facility has been updated to include package copy information
- Archive Tables updated to include the Package Copy ID

# Updated Reports

- Detailed Trace of Accounting Information Report (BTACTTRL)
- Package/DBRM History Buffer Pool Detail Report (HTPKGBP)
- Package/DBRM History Detail Report (HTPKGDTL)
- Package/DBRM History Lock/RLF Detail Report (HTPKGLK)
- Package/DBRM History List Report (HTPKGS)
- Package/DBRM History SQL Detail Report (HTPKGSQL)

# Package History Detail Report

Menu Print Tools Help			SYSVIEW for DB2		D13A CA31		02/07/23 15:30:09	
			20.0.06		IDB19302		RKLGO01	
_ 1 Resp Time 2 Buffers 3 Locks 4 SQL								
R/HTPKGDTL Package History Detail			Row 1/30					
Plan	RKLGO01P	Corr ID	CPP#DB2R	Connect	BATCH	Auth ID	RKLGO01	
Date	02/07/23	Started	14:39:34	ALL USES	Count	HHH:MM:SS.TTT	% Elapsed	
Coll ID	RKLGO01						Pkg	Thrd
Program	PARENT							
Token	1B9A632D1BD370C7							
Copy ID	4							
DB2 TIMES		HHH:MM:SS.TTTTTT						
Elapsed All Uses		0.00091	DB2 TCB.....	44		0.000	92.7	0.9
Elapsed Last Use		0.00000	DB2 zIIP CPU.	N/A		0.000	0.0	0.0
% Elap Last Use		0.0	I/O.....	0		0.000	0.0	0.0
TCB Last Use		0.00000	Local Lock...	0		0.000	0.0	0.0
% TCB Last Use		0.0	Other Rd I/O.	0		0.000	0.0	0.0
SQL Statements	11		Other Wr I/O.	0		0.000	0.0	0.0
StorProc Executed	0		DB2 Services.	0		0.000	0.0	0.0
UDFs Scheduled	0		Log Quiesce..	0		0.000	0.0	0.0
Pkg Switched To	1		Drain Lock...	0		0.000	0.0	0.0
Rollup Threads	1		Claim Release	0		0.000	0.0	0.0
Schema Name			Arch Log Read	0		0.000	0.0	0.0
Routine Name			Pg Latch Cont	0		0.000	0.0	0.0
Routine Type			Wt DS Msgs...	0		0.000	0.0	0.0
Rel Incompat	NO		Wt Glbl Cont.	0		0.000	0.0	0.0
			Wt P/Ch Synch	0		0.000	0.0	0.0
			Wt Accel Req.	0		0.000	0.0	0.0
			Glb Chld L-Lk	0		0.000	0.0	0.0
			Glb Othr L-Lk	0		0.000	0.0	0.0
			Glb Pset P-Lk	0		0.000	0.0	0.0
			Glb Page P-Lk	0		0.000	0.0	0.0
			Glb Othr P-Lk	0		0.000	0.0	0.0
			TCP/IP LOB...	0		0.000	0.0	0.0
Enter E to EXPLAIN ==> e			Latch .....	0		0.000	0.0	0.0
			Pipe .....	0		0.000	0.0	0.0
			Other DB2....	N/A		0.000	0.0	0.0

# Group Buffer Pool Residency Times (IFCIDs 230 and 254)

## PTF: LU08523

- Db2 13 M100 adds Data and Directory GBP residency statistics
  - -DISPLAY GROUPOFFERPOOL
  - IFCIDs 230 ad 254
- Use the IFCID information to monitor how long the group buffer pool data and directory entries reside in a coupling facility cache structure before they are reclaimed.
  - Use this information for diagnostics and performance tuning, especially to improve structure sizing, appointment, and workload balancing between cache structures.
- Updated IQL reports
- New Subsystem Exceptions QBGBART/QBGBERT
  - Perm Exception Def -> Subsystem Exceptions -> The value of a cumulative/snapshot field

# Updated Reports

- Subsystem Parameters Report (BTSYSPRM)
- Subsystem Group BP Settings Report (DSQPRGBP)
- Group BP Detail All DB2s History Report (HSAGBFD)
- Group Buffer Pool List All DB2s Report (HSAGBFL)
- Group BP History Detail This DB2 Report (HSGBUFD)
- Group Buffer Pool Parameters History Report (HSPRGBP)
- Group BP History Summary Detail This DB2 Report (HSUGBUFD)
- Group BP Detail All DB2s Report (SYSAGBFD)
- Group BP List All DB2s panel Report (SYSAGBFL)
- Group BP Detail This DB2 Report (SYSGBUFD)
- Group Buffer Pool Parameters Report (SYSPRGBP)

# Data/Directory Residency Time Exceptions

Menu Print Tools Help		SYSVIEW for DB2	D13A CA31	03/11/23 14:49:28
		20.0.07	D13APR20	BADANA2
Exception Field Variables				
Select field 1 using an "S". Then press Enter.		Row 624/10392		
		DB2/IDB2 Field	IFCID	Type
. # of CF async XI synch-up calls for GBP****		QBGLSU	00002	Cumulative
. # of CF async XI synch-up call suspends for GBP****		QBGLAS	00002	Cumulative
. # of CF directory entry reclaims for GBP****		QBGBDTR	00002	Cumulative
. # of CF data entry reclaims for GBP****		QBGBDTR	00002	Cumulative
. # of CF directory entry stolen with XI for GBP****		QBGBDXI	00002	Cumulative
. Data area residency time (microseconds) for GBP****		QBGBART	00002	Cumulative
. Dir entry residency time (microseconds) for GBP****		QBGBERT	00002	Cumulative
Buffer Pool Statistics for Specific Buffer Pool (QBST)				
. BPO GETPAGE requests		QBSTGET	00002	Cumulative
. BPO READ I/O requests		QBSTRIO	00002	Cumulative
. BPO getpage failures - VPOOL full		QBSTXFL	00002	Cumulative
. BPO expansion failures - virtual storage shortage		QBSTXV	00002	Cumulative
. BPO UPDATES - system pages		QBSTSWS	00002	Cumulative
. BPO PAGES WRITTEN - system pages		QBSTPWS	00002	Cumulative
. BPO WRITE I/O - asynchronous		QBSTWIO	00002	Cumulative
. BPO # active buffers		QBSTCBA	00002	Snapshot
. BPO READ I/O requiring paging		QBSTRPI	00002	Cumulative
. BPO WRITE I/O requiring paging		QBSTWPI	00002	Cumulative
. BPO - total number of datasets opened		QBSTDSD	00002	Snapshot



# New IFCID information for Split Indexes (Db2 13 M501)

## PTF: LU09090

- New IFCID 396 provides greater details about an Index Split to help identify performance problems issues.
- New Index Split Summary Report
  - System Statistics -> More... -> Index Splits (IFCID 396)
- New Index Split History Report
  - System History -> Select Interval -> More... -> Index Splits (IFCID 396)
- New Index Split History Summary Report
  - System History -> History Summary -> More... -> Index Splits (IFCID 396)
- Batch Report has been enhanced to show IFCID 396 information
- New IQL Exception IQLEX396
  - Perm Exception Def -> IQL Based Exceptions

# IFCID 396 Summary Report

Menu	Print	Tools	Help	SYSVIEW for DB2		D13A CA31		02/22/23 10:19:58	
				20.0.06		D13APR20		LAKSA03	
R/IQLISPLT		Index Split Summary						Item 1/77	
Database	Pageset	Part	Page Splits	Total Duration	Avg Duration	Last Split		Last URID	
DBEXPBR	IX1EXPBR	1	6	7.502000	1.250333	02/21/23	16:34:00	00000000010C56A242E1	
	IX2EXPBR		2	2.244000	1.122000	02/21/23	16:48:21	00000000010C6F69F617	
	IX3EXPBR		3	3.817000	1.272333	02/21/23	16:28:11	00000000010C48EF5C78	
	IX4EXPBR		2	2.458000	1.229000	02/21/23	16:33:20	00000000010C52BCFB3F	
DBEXPBR1	IX1EXPB1		4	5.352000	1.338000	02/21/23	17:04:21	00000000010CA11A4B71	
	IX2EXPB1		4	4.709000	1.177250	02/21/23	17:30:11	00000000010CE3A0C13A	
DBEXPBR2	IX1EXPB2		1	1.002000	1.002000	02/21/23	17:11:10	00000000010CC7879B77	
	IX2EXPB2		2	2.456000	1.228000	02/21/23	17:06:42	00000000010CA4BE6605	
	IX5EXPBR		1	1.268000	1.268000	02/21/23	16:19:13	00000000010C4089EC78	
	IX6EXPBR		1	1.001000	1.001000	02/21/23	16:19:06	00000000010C401EF936	
PTDB	OLMRSELE		1	1.233000	1.233000	02/22/23	07:59:46	00000000010D15CA04D3	
	PTMG8ROU		1	1.168000	1.168000	02/21/23	16:44:06	00000000010C6530D21E	
QCDBI01	IRDO1614		1	1.191000	1.191000	02/22/23	09:41:27	00000000010D9659999B	
	IRNO1JW4		1	1.048000	1.048000	02/22/23	08:50:55	00000000010D4CAB8AB1	
	QCXIG02B		2	2.414000	1.207000	02/22/23	09:13:31	00000000010D6D170EE6	
	QCXIP02B		1	1.196000	1.196000	02/22/23	07:56:10	00000000010D042C5F0E	

# IFCID 396 Batch Report

SYSVIEW 17.0 CA31 ----- OUTPUT, Job Output -----							
Command =====>							
-----							
JobName	Jobid	Queue	DDName	StepName	ProcStep	ExecSys	AllFiles
IDB2RWHS	JOB14708	OUTPUT	BTRECTRC	\$\$\$\$\$\$@		CA31	NO
-----							
...+....10...+....20...+....30...+....40...+....50...+....60...+....70...+....80...+.							
ACE	Correlation	zIIP					
-----							
DISTSERV	02/21/23	16:19:44.1092		396	INDEX PAGE SPLIT		
LAKSA03	SERVER			8	DBID.....:	1215	
.....							
21FFAA20	db2jcc_appli				OBID.....:	5	
					Partition.....:	1	
					DS Member ID...:	0	
					Splitting Page.:	17663	
					URID.....:	00000000010C43D1BD45	
					Duration.....:	1.223000	
DISTSERV	02/21/23	16:25:31.0575		396	INDEX PAGE SPLIT		
LAKSA03	SERVER			9	DBID.....:	1215	
.....							
1F2BF320	db2jcc_appli				OBID.....:	5	
					Partition.....:	1	
					DS Member ID...:	0	
					Splitting Page.:	17855	
					URID.....:	00000000010C4589568E	
					Duration.....:	1.217000	

# IFCID 396 IQL Exception(IQLEX396)

```
Menu  Print  Tools  Help      SYSVIEW for DB2      D13A CA31      03/11/23 12:42:34
                                20.0.07      D13APR20      BADANA2

                                List of External/IQL Shadow Exception Defs
                                Row 9/37

Commands: ADD=Add exception, ACTALL/INACTALL=Activate/inactivate all exceptions
Actions:  U=Update current and permanent, P=Update permanent definition only,
          C=Copy, D=Delete, A=Activate, I=Inactivate, B=Browse.  Use F6 to add.

STATUS SSN  Ext/IQL exception ID Exception name
- INACT **** TESTJP01             IQ000028
- ACTIVE **** TBLCONST            IQ000027
- ACTIVE **** SYNCFAIL            IQ000026
- ACTIVE **** STALLED             IQ000025
- ACTIVE **** SNAERROR            IQ000024
- ACTIVE **** RESYNCH             IQ000023
- ACTIVE **** RECSSORT            IQ000022
- ACTIVE **** RBNDRQRD            IQ000021
- ACTIVE **** POOLTHRD            IQ000020
- ACTIVE **** OVERFLOW            IQ000019
- ACTIVE **** MAXTEMPS            IQ000018
- ACTIVE **** LOGXCHNG            IQ000017
- ACTIVE **** LOCKESCL            IQ000016
- ACTIVE **** LESSPIO             IQ000015
- ACTIVE **** IQLEX396            IQX15001
- ACTIVE **** IDSXC402            IQ000014
- ACTIVE **** HEUDCSN             IQ000013
- ACTIVE **** HEUDAMAG            IQ000012
- ACTIVE **** EXCP0402            IQ000011
```

# Any Feedback...?

PTFs: LU08986, LU08523, and LU09090

Presenter | [andrew.badgley@broadcom.com](mailto:andrew.badgley@broadcom.com)



# In Closing...

## LEVEL SET 20.0.07 (LU09222) 1|2

- **Additional DSNZPARM Support in Thread Termination/Dynamic DSNZPARM (LU09264)**
- Batch Processor Support for Multiline Comments in View, MQTs, and Triggers (LU08956)
- New Maximum Historical Interval Range Parameter for MTC-DBM User Interface (LU08743)
- TLS 1.3 and REST API Impact Analysis Report Enhancements (LU08403)
- Database Analyzer New Default for Maintaining CTV Statistics (LU08288)
- **Fast Load Parallel Processing Support for PBR Tablespaces (LU09133)**
- **Fast Load PBG Compression Optimization and Improved zIIP Offload Support (LU08408)**
- **Fast Unload Enhancement to Define Columns to Exclude from an Unload (LU08873)**

## LEVEL SET 20.0.07 (LU09222) 2|2

- **Log Analyzer Enhancements for ALTER TABLESPACE Support for DDL Reports and Redo/Undo (LU08637)**
- **RC/Compare Support for External Stored Procedures (LU08696)**
- **RC/Migrator Syntax Checker Support for ALTER PARTITIONING Clause (LU09207)**
- **RC/Query Support for New Temporal Table Clauses (LU09136)**
- **SYSVIEW for Db2 Support for Index Splits (LU09090)**
- **SYSVIEW for Db2 PACKAGE-COPYID Support in IFCID 239 (LU08986)**
- **SYSVIEW for Db2 Support for New Db2 13 Fields in QBGB/QW0254 Group Buffer Pool Residency Times (LU08523)**



# CA Db2 Tools 20.0 Validation Project

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



# Thank You



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