



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

TEAM PRODUCT OWNERS
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Agenda

- Post Install:
 - Post-install support for DRDA remote binds
- Sysview for Db2:
 - Enhanced Support zHyperlink
 - Insert Algorithm 2 and RID List Field Support
 - Support for Cancelling Inactive Threads
 - Support for IDAA V7- Replication
 - Support for Cross Invalidation
 - Support for new Resource Limit Facility codes
 - RID list reports enhanced
 - Documentation improvement for Calculated Fields
 - Zowe Conformance
- MTC-DBM:
 - SQLCODES
 - Export to CSV

Please Ask Questions...



Post Install

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Post-Install support for DRDA remote binds

DRDA remote binds

- Newly added support for remote binds on DRDA compatible non z/OS subsystems (such as Db2 LUW, Oracle)
- Based on customer request for Fast Unload
- Does not affect previous functionality, builds on existing implementation for z/OS systems
- Currently only Fast Unload product is utilizing this feature but the infrastructure is open for all products (SO14381, SO14382, SO14383)

DRDA remote binds

```
INSEDS55 ----- Edit Parmlib Member SETUP ----- Row 1 to 2 of 2
Command ==> _____ Scroll => CSR

PF keys.....: PF1 for Help                               Member...: SETUP00
                PF3/END to Return to the previous panel    SSID.....: Q10B
                PF7/UP to Scroll Up, PF8/DOWN to Scroll Down
Line commands: D,I,R to Delete, Insert or Replicate an entry
Commands.....: CANCEL to Exit without saving changes

  Location          Location Subsystem ID  Location Type
  -----
  LUW1PTIB
  D12APTIB          D12A
  ***** Bottom of data *****
```

Modification of the current panel for remote locations.

Non z/OS location specified as DRDA.

Previously defined locations are shown as "ZOS"

No changes needed if you do not exploit the new functionality

Internally the two locations are treated differently but are inputted in the common table form

Subsystem ID is needed only for SSID running on z/OS

DRDA remote binds

```
INSEDS4A ----- Edit Parmlib Member SETUP -----
Command ==> _____

PF Keys.....: ENTER    to Continue, PF1 for Help           Member...: SETUP00
                PF3/END  to Return to the previous panel      SSID.....: Q10B
Commands.....: CANCEL   to Exit without saving changes

Type the information in the fields below.
If QMF is not installed, leave these fields blank.

DRDA Remote Binds.....> YES          (YES or NO)
QMF Plan Name (Opt.)...>
QMF Version (Opt.)....>
QMF Prefix (Opt.).....>
DECP Module Name (Opt.)>              (DB2 10 NFM or later)
XML Column Default Value>
```

Follows the DRDA
Remote Binds option

If DRDA Remote Binds
option is set to NO, then
no remote binds are
done when running bind
job

DRDA remote binds

```
INSMBIND ----- Bind Product Packages and Plans -----
Option ==> _____

Now Processing DB2 Subsystem Q10B

Local and Remote Bind Options

0 - Bind ALL product packages and plans
  (Must be performed for base installs)

1 - Bind only product packages for maintenance
  (Bind only affected packages from changed DBRMs)

Local Bind Options (Override PARMLIB Remote Bind Setting)

2 - Bind all product plans only
  (For a subsystem where packages were previously bound)

3 - Bind only product packages for maintenance
  (For a subsystem needing package maintenance)

Use the same values for all DB2 subsystems?...> Y (Y,N)
```

Works the same way as regular bind

DRDA bind statements are bound together with the rest

Current solution allows for any other products to make use of the DRDA binds infrastructure in the future

DRDA remote binds

```
*****
DSN
* DRDA REMOTE PACKAGE BINDS STATEMENTS FOR
DSN
*      NON ZOS LOCATION: LUW1PTIB
DSN
*****
DSN
*****
DSN
* BIND PACKAGE STATEMENTS FOR PRODUCT:
DSN
*      PFU - Fast Unload
DSN
*****
DSN
BIND PACKAGE(LUW1PTIB.DGL1PLAN_PUT_PFU)      MEMBER(UTAFUSF9)
```

Statements are marked
for better orientation in
the BIND output

Formatting of bind
statements has been
unified

Any Questions...



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Sysview for Db2

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Enhanced Support for zHyperlink



With zHyperlink Reduce the Transaction Latency!

Delivered

Dataset I/O statistics (IFCID 199)

- New fields containing zHyperlink I/O delay information are now supported

Delivered

Log write I/O with zHyperlink

- Eligible to use zHyperlink and successfully used Hyperlink
- Eligible to use zHyperlink but did not use zHyperlink

New

Report zHyperlink Utilization

- It is possible to monitor zHyperlink and make assessment with new values
- Analysis can be done : System Level
 - Buffer Pools Level
 - Thread Level

New

Read I/O zHyperlink Use

- Reports for a single Read I/O operation if data was found in the DASD subsystem cache (Cache hit) or not
- Reports for a single Read I/O operation if zHyperlink was used or not

Demo follows..

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zHyperLink BP statistics – QBST

- **Disk Cache Hits** The number of synchronous read I/O's that resulted in **Disk Cache hits**.
- **Cache Hit Ratio** The **percentage** of synchronous reads found in the disk cache.
If the cache hit ratio is **below 80** then zHyperLink benefits would be limited.
- **zHyperLink Reads** The number of synchronous read I/O operations **which used zHyperLink**.
- **zHL Utilization** The **percentage** of synchronous reads that were **successful with zHyperLink**.

Updated Reports →

- Real time Report
 - SYSSTATS/A
 - BUFRDWRS
- History Reports
 - HSBRDWR
 - HSUBRDWR
 - HSSNAP
 - HSUSNAP
- Batch Reports
 - BTSTASM2
 - BTSTATR1

System Snapshot

Buffer Pool Read/Write Activity

Buffer Pool Read/Write History

Buffer Pool Read/Write History Summary

System Overview History

System Overview History Summary

Summary of Db2 Database Address Space Statistics

Buffer Pool Statistics

zHyperLink BP Statistics – Real Time: System Statistics

Menu	Print	Tools	Help	CA SYSVIEW for DB2		DBN1 CA11	05/13/20	08:05:56
				20.0		DBN1ENDV1		VANNA04
1	SnapShot	2	Buffer Pool	3	EDM Pool	4	Logs	5
						Acct Sum	6	More...
R/SYSSTATS								
System Snapshot - Accumulate								
Accum								
EXCEPTIONS	Crit	Warn	Info	BUFFERS		EDM POOL		
Subsystem	1	0	1	Warnings	3485	DBD Lds	8	% Rqsts 1.0
Database	0	0	0	Act Pools	9	CT Lds	11	% Rqsts 5.7
Applicatn	0	0	0	% Act Pgs	0.1	PT Lds	15	% Rqsts 6.4
	Pct	Max	StIn	Getpages	41768	Dyn Ins	19	% Rqsts 12.8
LIMITS	Current	Max	HWM	HWM	Sync Rds			
Users	6	0	7	6	Cache Hit	100.0	LOCKING	
TSO	0	0	2	0	zHL Utilz	98.2	Suspend	11
Batch	6	0	7	6	Read Eff	1.5	Escalate	0
DDF Actv	1	0	1	1	Buf Updts	1531	Timeout	0
DDF Inac	1	0	2	1	Pg Writes	1240	Deadlock	0
Dataset	94	0		94	Write I/O	751	LOGGING	
							Dlyd Wrts	0
							Arch Read	0
							Min/Chkpt	1792
							Warnings	0
SQL			ADDRESS SPACES		THREADS		Active	Actv+Cmplt
Dynamic	156		DB2 Pct	CPU 0.0	Count	6		195
Ins+Upd+Dlt	0		DB2 WSS	(K) 151764	Commits	6		339
Open+Select	317		DB2 Up	Time 29:52:50	Aborts	0		22
Accelerator	0				DB2 CPU	1		
					Indoubt	0		
STORED PROCEDURES			POOL FAILURES					
SQL CALLs	0		RID	0				
Failures	0		EDM	0				
MISCELLANEOUS					DATA SHARING			
DDF ACTIVE	Rel	12.1.500			Group		
RLF INACTIVE	SRC	!DBN1			Member		

zHyperLink BP Statistics – Real Time: BP Read/Write Activity

Menu	Print	Tools	Help	CA SYSVIEW for DB2	DBN1 CA11	04/29/20 11:00:47
				20.0	DBN1ENDV1	VANNA04
1	Exceptions	2	Thresholds	3 Read/Write	4 Workfiles	5 Files 6 Simulate
R/BUFRDWRS BP Read/Write Activity - Accum						
						Accum
BUFFER POOL BP8						
READ I/O		WRITE I/O		PREFETCH	Reqsts	Pages I/O
Pagesets Used	1	Buffer Updates	0	Seq	38	0 0
StIn HWM DS Opnd	1	Pages Written	0	List	0	0 0
Migrated DS Opnd	0	Buffer Upd Eff	0.0	Dynamic	0	0 0
Getpage Requests	272	Asynch Wrt I/O	0	SLRU		
Seq Accs Getpgs	268	Synch Writes	0			
Synchronous Rds	252	Page Wrt Eff	0.0			
Seq Accs Sync Rd	250	Times Pgs Add LPL	0	Buffers on SLRU	HWM	18
Asynchronous Rds	0	PARALLEL I/O		Buffers on SLRU	LWM	18
Rand Getpgs Req	0			CASTOUT		
Getpgs/Sync Read	1.1					
Hit Ratio	7.3	Requests	0	Rate	Pages	I/O
I/O Per Second	0.1	Max Streams	0	Castout	0.0	0 0
Disk Cache Hits 252		PAGE RESIDENCY Seconds		OVERFLOW AREA		Pages I/O
Cache Hit Ratio	100.0	System	123.15	Sequential	0	0
zHyperLink Reads	252	Random	123.15	Random	0	0
zHL Utilization	100.0	Sequential				

zHyperLink BP Statistics – Updated History Reports

Menu	Print	Tools	Help	CA SYSVIEW for DB2		DBN1 CA11	05/13/20 08:40:05	
				20.0		DBN1ENDV1	VANNA04	
1 Overview	2 Buffers	3 EDM Pool	4 Locks	5 Acct Sum	6 More...	7 Excppts		
R/HSSNAP	System Overview History							
From 05/12/20 10:46:00 To 05/13/20 08:04:00								
EXCEPTIONS Crit Warn Info								
Subsystem	1	0	1					
ADDRESS SPACE	CPU	BUFFERS		EDM POOL				
DBAS	11.87	Warnings		DBD L				
SSAS	23.77	Act Pools		CT L				
IRLM	29.53	%NSTl Pgs		PT L				
DIST	1.72	Getpages		Dyn Ins	1	% Rqsts	1.2	
		Sync Rds						
THREADS		Cache Hit		DATA SHARING	STORED PROCS			
Created	114	zHL Utilz		Group	CALLs	0	
Terminated	211	Read Eff		Member	Fails	0	
Aborts	8	Buf Updts						
Commits	203	Pg Writes						
		Write I/O		LOCKING	LOGGING			
SQL		POOL FAILURES		Suspend	7	Dlyd Wrts	0	
Dynamic	92	RID		Escalate	0	Arch Read	0	
In+Up+Dl	0	EDM		Timeout	0	Min/Ckpt	***	
Open+Sel	212			Deadlock	0	Warnings	0	
Accel	0							

- ✓ System Overview History
- ✓ BP Read/Write History
- ✓ System Overview History Summary
- ✓ Buffer Pool Read/Write History

- ✓ System Overview History
- ✓ BP Read/Write History
- ✓ System Overview History Summary
- ✓ Buffer Pool Read/Write History Summary

zHyperLink BP Statistics – Updated Batch Reports

...+....10...+....20...+....30...+....40...+....50...+....60...+....70...+....80...+....90...+....100...+....110...+....120...+									
SUMMARY OF DB2 DATABASE ADDRESS SPACE STATISTICS									
BUFFER POOL STATISTICS FOR BP8									
GENERAL									

AVG NON-STEALABLE BUFFERS	0	GETPAGE REQUESTS	2000	PAGES WRITTEN	0				
BUFFER POOL FULL	0	SEQUENTIAL ACCESS GETPAGES	2010	BUFFER UPD/PAGES WRITTEN	0.0				
EXPANSION FAILURES	0	RANDOM ACCESS GETPAGES	25	ASYNCHRONOUS WRITES	0				
		RANDOM GETPAGES ON SLRU	0	SYNCHRONOUS WRITES	0				
AVG BUFs ALLOCATED - VPOOL	20			PAGES WRITTEN/WRITE I/O	0.0				
VPOOL SIZE CHANGES	0	SYNCHRONOUS READS	1912	PAGE-INS REQUIRED - WRT I/O	0				
TIMES PAGES ADDED TO LPL	0	SEQ ACCESS SYNCHRONOUS READS	1902	AVG DEFERRED WR THRESHOLD	0				
DATASETS OPENED	5	DISK CACHE HITS	1906	AVG DS DEFERED WR THRESHOLD	0				
MIGRATED DATASETS OPENED	0	CACHE HIT RATIO	99.7	DATA MANAGEMENT THRESHOLD	0				
DFHSM RECALL TIMEOUTS	0	ZHYPERLINK READS	1612						
		ZHL UTILIZATION	84.6						
		RANDOM ACCESS SYNC READS	10						
MAX CONCUR PREF I/O STREAMS	0	GETPAGES/SYNCHRONOUS READS	1.1						
PARALLEL QUERY REQUESTS	0	HIT RATIO	0.0						
PARALLEL I/O DEGREES REDUCED	0	PAGE-INS REQUIRED - READ I/O	82						
REDUCED DEGREE PARALLEL I/OS	0	-----							
AVERAGE DEGREE REDUCTION	0.0	ASYNCHRONOUS RDS	0						
PREF QUANTITY REDUCED TO 1/2	0			SORT/MERGE					
PREF QUANTITY REDUCED TO 1/4	0	SEQUENTIAL PREFETCH REQUESTS	273	SORT MERGE PASSES REQUESTED	0				
SEQUENTIAL STEAL THRESHOLD	0	SEQUENTIAL PREFETCH READS	0	INEFFICIENT PASSES-LOW BUF	0				
		SEQUENTIAL PREFETCH PAGES	0	WKFLS REQUESTED ALL PASSES	0				
SLRU		SEQUENTIAL PREFETCH PAGES/RD	0.0	MAX WORKFILES ALLOCATED	0				
				WRKFL REQ DENIED-LOW BUFFER	0				
BUFFERS ON SLRU HWM	18	LIST PREFETCH REQUESTS	0	WRKFL NOT CREATED-NO BUFFER	0				
BUFFERS ON SLRU LWM	0	LIST PREFETCH READS	0	WORKFILE PREFETCH ABORTED	0				
		LIST PREFETCH PAGES	0	DESTRUCTIVE READ PAGES	0				
PAGE RESIDENCY TIME (SEC)		LIST PREFETCH PAGES/READ	0.0	PG WRT BYPASSED-DESTRUCT RD	0				
				CASTOUT					

				CASTOUT I/O OPERATIONS	0				

- ✓ Db2 Address Space Statistics (BTSTASM2)
- ✓ Buffer Pool Statistics (BTSTATR1)

zHyperLink Thread BP Statistics

zHyperLink Reads The number of synchronous read I/O operations which used zHyperLink.

Disk Cache Hits The number of synchronous read I/Os that **resulted in Disk Cache Hits**.

zHL CPU (or) zHyperLink CPU The amount of CPU time used for successful zHyperLink reads.

- zHyperLink I/O is synchronous with respect to the CPU, thus CPU time accumulates from the beginning of the I/O until it completes

Updated Reports →

- Real Time: THRDRESP **Thread** Response Time
 THRDBUFD **Thread** Buffer Detail
- History: HTBUFRS **Thread** Buffer Pool History
 HTPKGBP **Package** History BP Detail
 HTRESP **Response Time** History
- History Summary: HTUBUFR Buffer Utilization **Thread** summary
 HTURESP **Thread Response time** summary
- Batch: BTACTSML Detailed Summary of **Accounting** Information Report
 BTACTTRL Detailed Trace of **Accounting** Information Report

zHyperLink Thread BP Statistics – Updated Real Time Reports

R/THRDRESP Thread Response Time									
SORT N/A									
Auth ID RKLGO01		Plan DSNESPCS		Corr ID RKLGO01					
		Times in HH:MM:SS.TTTT		% App		1	3	5	7
						9			
Elapsed Time App		6.3290	Evnts	Elpsd	Elpsd	.0	.0	.0	.0
TCB Time Appl		0.2782	N/A	4.4					
Total DB2 Elapsed		0.1655	N/A	2.6					
Appl DB2 Elapsed		0.1655	60020		100				
Total DB2 CPU		0.1492	N/A		90.2				
TCB Time DB2		0.1492	N/A		90.2				
zHyperLink CPU		0.0095	N/A		5.8				
Other DB2 Time		0.0162	N/A		9.8				

R/THRDBUFD Thread Buffer Detail					
SORT N/A					
Auth ID RKLGO01		Plan DSNESPCS		Corr ID RKLGO01	
BUFFER POOL BP8					
READ I/O		WRITE I/O		PREFETCH	Requests
Getpage Requests	311	Buffer Updates	0	Sequential	45
Synchronous Reads	308	Synchronous Writes	0	List	0
Disk Cache Hits	308			Dynamic	0
zHyperLink Reads	308	FAILS			
Asynch Pages Reads	0	Conditional Getpage	0	TIMES	
Read Efficiency	1.0			zHL CPU	0.0095
Hit Ratio	0.9				

zHyperLink Thread BP Statistics – Updated History Reports

```

R/HTBUFRS          Thread Buffer Pool History

Plan      DSNESPCS      Corr ID RKLGO01      Connect T
Date      05/13/20      Started 06:54:23      RecType
BUFFER POOL BP8
READ I/O
Getpage Requests      311      Buffer Updates
Synchronous Reads      308      Synchronous Writes
Disk Cache Hits      308
zHyperLink Reads      308      FAILS
Asynch Pages Reads      0      Conditional Getpage
Read Efficiency      1.0
Hit Ratio      0.9
  
```

- ✓ Thread Buffer Pools History(HTBUFRS)
- ✓ Response Time History (HTRESP)
- ✓ Package History BP Detail(HTPKGBP)
- ✓

```
0 Sequential 45
0 List 0
0 Dynamic 0
0 TIMES
  zHL CPU 0.0095
```

R/HTRESP Response Time History										
Plan	DSNESPCS	Corr ID	RKLGO01	Connect	TSO	Auth ID RKLGO01				
Date	05/13/20	Started	06:54:23	RecType						
Times in		HH:MM:SS.TTTT	% App	% DB2	1	3	5	7	9	
Elapsed Time App		1:55.4065	Evnts	Elpsd	Elpsd	.0	.0	.0	.0	.0
CPU Time Appl		0.2784	N/A	0.2						
TCB Time Appl		0.2784	N/A	0.2						
Total DB2 Elapsed		0.1657	N/A	0.1						
Appl DB2 Elapsed		0.1657	60024		100					
Total DB2 CPU		0.1494	N/A		90.2					
TCB Time DB2		0.1494	N/A		90.2					
zHyperLink CPU		0.0095	N/A		5.8					
Wait DB2 Service		0.0000	1		0.0					
Update Commit		0.0000	1		0.0					
Other DB2 Time		0.0162	N/A		9.8					

zHyperLink Thread BP Statistics – Updated Batch Reports

BUFFER POOL BP0								
READ I/O			WRITE I/O			PREFETCH REQUESTS		
AVERAGE	TOTALS		AVERAGE	TOTALS		AVERAGE	TOTALS	
GETPAGE REQUESTS	2013.0	2013	BUFFER UPDATES	3.0	3	SEQUENTIAL	60.0	60
SYNCHRONOUS READS	191.0	191	SYNCHRONOUS WRITES	0.0	0	LIST	0.0	0
DISK CACHE HITS	191.0	191				DYNAMIC	3.0	3
ZHYPERLINK READS	170.0	170	FAILS	AVERAGE	TOTALS			
ASYNCH PAGES READS	1607.0	1607				TIMES	AVERAGE	TOTALS
READ EFFICIENCY	10.5		CONDITIONAL GETPAGE	1.0	1			
HIT RATIO	10.6					ZHYPERLINK CPU	000.005	000.005

PKG LOCKING ACTIVITY			TOTAL			PKG BUFFER POOL ACTIVITY		
TOTAL	AVERAGE		TOTAL	AVERAGE		TOTAL	AVERAGE	
MAX PAGE LOCKS HELD	0		QUALIFYING RECORDS	2		GETPAGE REQUESTS	0	0.0
						SYNCHRONOUS READS	0	0.0
TIMEOUTS	0	0.0	SUSPENSIONS - LOCK	0	0.0	DISK CACHE HITS	0	0.0
DEADLOCKS	0	0.0	SUSPENSIONS - LATCH	0	0.0	ZHYPERLINK READS	0	0.0
LOCK ESCALATION - SHR	0	0.0	SUSPENSIONS - OTHER	0	0.0	ASYNCHRONOUS PAGES READS	0	0.0
LOCK ESCALATION - EXC	0	0.0	SUSPENSIONS - TOTAL	0	0.0	READ EFFICIENCY		0.0
			UNLOCK REQUESTS	0	0.0	HIT RATIO		0.0
CLAIM REQUESTS	0	0.0	QUERY REQUESTS	0	0.0	BUFFER UPDATES	0	0.0
CLAIM FAILURES	0	0.0	CHANGE REQUESTS					
DRAIN REQUESTS	0	0.0	LOCK REQUESTS					
DRAIN FAILURES	0		OTHER REQUESTS					
						LIST PREFETCH REQ	0	0.0
						DYNAMIC PREFETCH REQ	0	0.0
						COND GETPAGE FAILURES	0	0.0
						ZHYPERLINK CPU TIME	0.00	0000.000

- ✓ Detailed Summary of Accounting Information Report (BTACTSML)
- ✓ Detailed Trace of Accounting Information Report (BTACTTRL)

Analysing zHyperlink use for a specific I/O

Disk Cache Hit: Indicates whether the I/O resulted in a disk subsystem cache hit or not

- **ZHL-YES**—READ request with SYNCIO used zHyperLink
- **ZHL-NO**—READ request with SYNCIO did not use zHyperLink
- **ASYNCIO**—READ request without SYNCIO

→ Online and Batch Reports are Updated (RECTRACE & BTRECTRC)

R/RECTRACE				Detail Trace of DB2 Activity				Row 2498-2539/8181						
Rtrn	Lk	Lck	Lock	Req/Ret	Lock	Req	Lock							
Code	Dr	Ste	Type	Token	Type	Type	Scope							

Request: A				Reason Code: 000000				Claim Class: C						
Database: DSNDB06				Pageset: DSNAUH01				1st Pg: 0000000F - A RD-Type: R TS-Type: N						
				Partition: 0				Read SyncIO NO						
0	Database: DSNDB06			Pageset: DSNAUH01				1st Pg: 0000000F - A RD-Type: R Pages-RD: 1						
				Partition: 0				Read SyncIO: NO - ASYNCIO Disk Cache Hit: NO						
Database: DSNDB06				Pageset: SYSUSER				1st Pg: 00000027 - A RD-Type: R TS-Type: N						
				Partition: 0				Read SyncIO NO						
0	Database: DSNDB06			Pageset: SYSUSER				1st Pg: 00000027 - A RD-Type: R Pages-RD: 1						
				Partition: 0				Read SyncIO: NO - ASYNCIO Disk Cache Hit: NO						
Database: DSNDB06				Pageset: SYSUSER				1st Pg: 00000027 - A RD-Type: R TS-Type: N						
				Partition: 0				Read SyncIO: NO - ASYNCIO Disk Cache Hit: NO						

Insert Algorithm 2 and RID List Fields Support

Insert Algorithm 2 and RID List Fields Support

- New Fields related to insert algorithm 2 (IAG2) pipe use are added to Online – History and Batch reports, Also made available as IQL fields
- The number of:
 - IAG2 pipes **allocated** since the last Db2 restart. **DMFI-PIPES-ALLOC (QISTINPA)**
 - IAG2 pipes **disabled** since the last Db2 restart. **DMFI-PIPES-DISABLE (QISTINPD)**
 - IAG2 pipes **re-enablement** was **attempted** since the last Db2 restart. **IAG2-PIPE-ATTEMPTED-RNBL (QISTINPR)**
 - IAG2 pipes **re-enablement** was **successful** since the last Db2 restart. **IAG2-PIPE-SUCCESSFUL-RNBL (QISTINPE)**
 - The number of times basic insert algorithm (IAG1) is used. **IAG1-USED (QXRWSINSRRTDALG1)**
 - The number of times fast insert algorithm (IAG2) is used. **IAG2-USED (QXRWSINSRRTDALG2)**
 - The number of times RID list processing is not used or terminated for the whole query. **MIAP-NOT-USED (QXRFMIAPIAP)**
 - The number of execution history lost. **QXSTEHLST**
 - The number of host variable recording lost in execution history. **QXSTHVLST**

Insert Algorithm 2 and RID List Fields Support

- **Reports Updated:**
- Parallelism / Miscellaneous / IAG2 (**PRLMISC**)
- Parallelism / Misc / IAG2 History (**HSTPRLMS**)
- Parallelism / Misc / IAG2 History Summary (**HSUPRLMS**)
- Statistics Data Trace (**BTSTATR1**)
- Summary of DB2 database address space statistics (**BTSTASM2**)
- Parallelism / Miscellaneous / IAG (**PRLMISC**)
- Parallelism / Misc / IAG History (**HSTPRLMS**)
- Parallelism / Misc / IAG History Summary (**HSUPRLMS**)
- List Prefetch / RID Pool (**SYSLPRF**)
- List Prefetch / RID Pool History (**HSLPRF**)
- List Prefetch / RID Pool History Summary (**HSULPRF**)
- List Prefetch / RID Pool (**THRDLPFR**)
- List Prefetch / RID Pool History (**HTLSTPRF**)
- List Prefetch / RID Pool Hist Sum (**HTULPRF**)
- Parallelism / Misc / IAG / Workfile (**THRDPRMS**)
- Parallelism / Misc / IAG / Wkfile History (**HTHDPRMS**)
- Parallelism / Misc / IAG / Wfile Hist Sum (**HTUDPRMS**)
- Thread SQL Counts (**SQLCOUNT**)

Insert Algorithm 2 and RID List Fields Support

```

Menu Print Tools Help CA SYSVIEW for DB2 D12A CA31 07/20/20 02:00:53
20.0 D12AENDK3 SNOOL01

R/PRLMISC Parallelism / Miscellaneous / IAG

PARALLELISM MISCELLANEOUS Accum
Parallel Groups Executed 0 Max LOB Storage (MB) 0
Groups Executed as Planned 0 Max XML Storage Used (MB) 0
Max Degree of Parallel IO 0 Array Expansions 0
Est Degree of Parallel IO 0 Sparse Index Disabled 0
Plan Degree of Parallel IO 0 Sparse Index Built Workfile 0
Groups w/ Reduced Degree 0
Groups Red Deg - Sys Stres 0
Groups Failed - Cursor 0
Groups Failed - ESA Sort 0
Groups Failed - Storage/BP 0
Groups Failed - Autonom Pr 0
Groups Failed - Sys Stress 0
Groups Failed - Optimalize 0
Grps exec 1 DB2: COORD=NO 0
Grps exec 1 DB2: ISO=RR/RS 0
Number Intended Groups 0
Members Bypassed BP Short 0
Access Path Redone: Config 0
Access Path Redone: BP 0
Grps exec 1 DB2: DclTmpTbl 0

INSERT ALGORITHM
IAG2 Pipes
  Allocated 0
  Disabled 0
  Re-enable Attempted 0
  Re-enable Successful 0
IAG1 (Basic) Used 5929157
IAG2 (Fast) Used 0

```

New fields:

- “Re-enable Attempted” - Indicates the number of times insert algorithm 2 (IAG2) pipes re-enablement was attempted.
- “Re-enable Successful” - Indicates the number of times insert algorithm 2 (IAG2) pipes re-enablement was successful.
- “IAG1 (Basic) Used” - Indicates the number of times basic insert algorithm (IAG1) is used.
- “IAG2 (Fast) Used” - Indicates the number of times fast insert algorithm (IAG2) is used.

Insert Algorithm 2 and RID List Fields Support

```

Menu  Print  Tools  Help  CA SYSVIEW for DB2  D12A CA31  07/20/20 02:19:12
                        20.0  D12AENDK3  SNOOL01

FOCUS OFF

R/THRDPRMS  Parallelism / Misc / IAG / Workfile
SORT N/A
Auth ID SNOOL01  Plan IDB2993S  Corr ID INSU312A

PARALLELISM  MISCELLANEOUS
  Parallel Groups Executed 0  Max LOB Storage (MB) 0
  Groups Executed as Planned 0  Max XML Storage Used (MB) 0
  Max Degree of Parallel IO 0  Array Expansions 0
  Est Degree of Parallel IO 0  Sparse Index Disabled 0
  Plan Degree of Parallel IO 0  Sparse Index Built Workfile 0
  Groups w/ Reduced Degree 0
  Groups Red Deg - Sys Stres 0
  Groups Failed - Cursor 0
  Groups Failed - ESA Sort 0
  Groups Failed - Storage/BP 0
  Groups Failed - Autonom Pr 0
  Groups Failed - Sys Stress 0
  Groups Failed - Optimalize 0
  Grps exec 1 DB2: COORD=NO 0
  Grps exec 1 DB2: ISO=RR/RS 0
  Number Intended Groups 0
  Members Bypassed BP Short 0
  Access Path Redone: Config 0
  Access Path Redone: BP 0
  Grps exec 1 DB2: DclTmpTbl 0
  Parallel Suspend Count 0
  Parallel Suspend Time 0.0

  INSERT ALGORITHM
    IAG1 (Basic) Used 0
    IAG2 (Fast) Used 0

  WORKFILE
    Current Blocks Inuse 0
    Blocks Used HWM 0

```

New field:

- “IAG1 (Basic) Used” - Indicates the number of times basic insert algorithm (IAG1) is used.
- “IAG2 (Fast) Used” - Indicates the number of times fast insert algorithm (IAG2) is used.

Insert Algorithm 2 and RID List Fields Support

- ✓ Knowing if RID access is successful or not is vital for me as it impacts performance of the queries significantly.

<u>Menu</u> <u>Print</u> <u>Tools</u> <u>Help</u>		<u>CA SYSVIEW for DB2</u>		D12A CA31	07/20/20	01:53:53
		20.0		D12AENDK3	SNOOL01	
R/SYSLPRF List Prefetch / RID Pool - Accum						
				<u>Accum</u>		
RID POOL		%MAXRBLK	LIST PREFETCH			
RID Pool Current Blks	0	0.0	RID List Used			87
HWM RID Pool Blocks	3	0.0	Data Manager Not Called			5
StIn HWM RID Blocks	0	0.0	Not Used - Whole Query			9
RID Blks in Wrkfl Stg	0		Failed - No Storage			0
HWM RID Blks in Wrkfl	0		Failed - RID Limit			9
RID Failed RDS Limit	4		Only 1 Block Fetched			48
RID Failed DM Limit	0					
RID Failed No Storage	0					
RID Failed Processes	0					
RID Overflow - Stg	0					
RID Overflow - Limit	0					
RID Interrupt - Stg	0					
RID Interrupt - Limit	0					
RID Multi-Index Skipd	0					

- “Not Used - Whole Query” - Indicates the number of times RID list processing is not used or terminated for the whole query.

Detailed Summary Of Accounting Information - Grouped By AUTH, PLAN, CORR (BTACTSML)

LOCKING SUMMARY	AVG	TOTALS	LISTS PREFETCH	TOTALS	QUERY PARALLELISM	AVG	TOTALS	DATA CAPTURE	AVG	TOTALS
TIMEOUTS	0.0	0	RID LIST USED	603	GROUPS EXECUTED	0.0	0	IFI CALLS	0.0	0
DEADLOCKS	0.0	0	DM NOT CALLED	0	PLANNED DEGREE	0.0	0	LOG RECORDS CAPTURED	0.0	0
PAGE LOCKS HELD	0.4	3	NOT USED - WHOLE QRY	3	MAXIMUM DEGREE	0.0	0	LOG RECORDS READ	0.0	0
ESCALATION			FAILED - STORAGE	0	MAX EST DEGREE	0.0	0	DATA ROWS READ	0.0	0
SHR	0.0	0	FAILED - RID LIMIT	3	MAX PLAN DEGREE	0.0	0	LOG RCDS RETURNED	0.0	0
EXC	0.0	0	ONLY 1 BLOCK FETCHED	606	REDUCED DEGREE	0.0	0	DATA DESCRIPTORS READ	0.0	0
SUSPENSIONS	0.0	1			GROUPS RED DEG	0.0	0	TABLES RETURNED	0.0	0
LOCK	0.0	0	RID POOL	TOTALS	FAILED - CURSOR	0.0	0	DESCRIBES	0.0	0
LATCH	0.0	1			FAILED - NO ESA	0.0	0			
OTHER	0.0	0	RID OVERFLOW - STG	0	FAILED - NO BUFFR	0.0	0	DYNAMIC PREPARE	AVG	TOTALS
REQUESTS			RID OVERFLOW - LIMIT	0	FAILED - AUTON PR	0.0	0			
LOCK	101.6	6601	RID INTERRUPT - STG	0	FAILED - SYS STRS	0.0	0	STMT FOUND IN CACHE	0.1	5
UNLOCK	43.4	2821	RID INTERRUPT - LMT	0	FAILED - OPTIMAL	0.0	0	STMT NOT FOUND IN CACHE	0.1	4
QUERY	0.0	0	RID MULTI-INDEX SKIP	0	ONE DB2 COORD=NO	0.0	0	IMPLICIT PREPARE PERF.	0.0	0
CHANGE	0.2	14			ONE DB2 ISO=RR/RS	0.0	0	PREPARE AVOIDED	0.0	0
OTHER	0.0	0	DIRECT ROW ACCESS	TOTALS	INTENDED GROUPS	0.0	0	STMTS DISCARDED MAXKEEPD	0.0	0
					MEM BYP BP SHORT	0.0	0	STMTS PURGED DEP. OBJECT	0.0	0
DRAIN/CLAIM	AVG	TOTALS	SUCCESSFUL	0	ACC REDONE-CONFIG	0.0	0	PREP RESTRICTED INDX PEND	0.0	0
			REVERTED TO INDEX	0	ACC REDONE-BP	0.0	0	CONCENT. LIT. STMTS PARS	0.0	0
DRAIN REQUEST	0.0	0	REVERTED TO TS SCAN	0	1 DB2 DCL TMP TBL	0.0	0	CONCENT. LIT. REPLACED	0.0	0
DRAIN FAILED	0.0	0			PARALLEL SUSPENDS	0.0	0	CONCENT. LIT. REUSE FAIL	0.0	0
CLAIM REQUEST	129.3	8403	WORKFILE	MAX	PARAL SUSPND TIME		0.0	CONCENT. LIT. STMTS FND	0.0	0
CLAIM FAILED	0.0	0						STABILIZED PREP	0.0	0
			BLOCKS USED HWM	512						
					INSERT ALGORITHM	AVG	TOTALS			
					IAG1 (BASIC) USED	4.4	286			
					IAG2 (FAST) USED	0.0	0			

Support for Canceling Inactive Threads

Token ID Support during Thread Cancelation

- ✓ It allows to cancel Inactive Threads
- ✓ If a token is present it is passed to Thread Terminator to cancel the thread
Otherwise the ACE is passed.

Menu Print Tools Help CA SYSVIEW for DB2 DT31 CA31 06/22/20 12:48:31
20.0 IDB22476 DANAL04
1 All 2 Connections 3 Curr Contn 4 D-Lk/T-Out 5 More...
R/THRDACTV Threads Identified to DB2 FOCUS OFF
SORT OFF Item 1-31/31
All
Actions: S=Select, T=SQL, L=Locks, E=Except, R=Rmt, C=Cancel, M=More...
DB2
DT31 Auth ID Corr ID Plan Workstation Name End User End User Transaction Name Product Thread Token ACE ADDR
ID User ID User ID
DT31 NONE NONE DISTSERV 10.230.10.175 aguri01 db2jcc_application JCC04240 14795 26082D20
DT31 NONE NONE DISTSERV insomnia/7.0.3.... vanna04 accel01 HTP01010 14792 26082A20
DT31 NONE NONE DISTSERV insomnia/7.0.3.... vanna04 accel01 HTP01010 14791 26082120
DT31 NONE NONE DISTSERV insomnia/7.0.3.... vanna04 accel01 HTP01010 14785 26084820
DT31 NONE NONE DISTSERV 10.175.84.31 DCDPHJBC DCDPHJBC-CA31 JCC04230 14780 26083320
C DT31 NONE NONE DISTSERV insomnia/7.0.3.... vanna04 accel01 HTP01010 14773 2A8E9820
DT31 PLATDEV IDB2DCAP IDB2IFI DB2CALL PLATDEV IDB2DCAP DSN12015 4 2E9E0F20
DT31 PLATDEV IDB2DCAP IDB2IFI DB2CALL PLATDEV IDB2DCAP DSN12015 3 2E9E1520
DT31 PLATDEV IDB2DCAP IDB2IFI DB2CALL PLATDEV IDB2DCAP DSN12015 1 2EA16520
C DT31 SYSVDEV SVPE SYSVDEV 0 2E9E3020
DT31 0 2E9E2420
DT31 0 2E9E3320
DT31 VANNA04 INSUDT31 IDBSP200 DB2CALL VANNA04 INSUDT31 DSN12015 14680 26D3B020
DT31 VANNA04 INSUDT31 IDBSP200 DB2CALL VANNA04 INSUDT31 DSN12015 14678 26086020
DT31 VANNA04 INSUDT31 IDBSP200 DB2CALL VANNA04 INSUDT31 DSN12015 14677 26083F20

CA SYSVIEW for DB2 Cancel Thread Confirmation
You have requested to cancel the current SQL statement for the thread identified below. Press F6 to confirm the cancel request or F3 to abort the cancel request.
Note: The Thread Terminator value pack option must be installed and running in order to cancel threads.

Status	Plan name	Auth ID	Connection name	Correlation ID	ACE/TOKEN
	DISTSERV	NONE	DISCONN	NONE	014773

CA SYSVIEW for DB2 Cancel Thread Confirmation
You have requested to cancel the current SQL statement for the thread identified below. Press F6 to confirm the cancel request or F3 to abort the cancel request.
Note: The Thread Terminator value pack option must be installed and running in order to cancel threads.

Status	Plan name	Auth ID	Connection name	Correlation ID	ACE/TOKEN
		SYSVDEV	SVPE		2E9E3020

Token ID Support during Thread Cancellation

- ✓ The TOKEN parameter is also added to exception definitions.
- ✓ Existing exceptions are not influenced, but when creating new ones the TOKEN may be added.

```
Exception Actions Part 2

Specify actions to take when exception occurs.  Then press Enter.

Issue following PTT command starting at level . . . . N (I, W, C or N)
Part 1 . . . CANCEL PLAN=&PLANNAM CONN=&CONNNAM AUTH=&AUTHIDX
Part 2 . . . CORR=&CORRELATION TOKEN=&TTOKNXX
For individual hist. . N For hist. summary . N For real-time . N

Issue OPS/MVS API Event starting at level . . . . . N (I, W, C or N)
For individual hist. . N For hist. summary . N For real-time . N

Send SNMP trap/email to destination group _____ starting at level N
Number of times exception will occur before sending 1
For individual hist. . N For hist. summary . N For real-time . N
```

Support for IDAA V7 - Replication

Support for IDAA V7 - Replication

1 Snapshot 2 Buffer Pool 3 EDM Pool 4 Logs 5 Acct Sum 6 More...									
R/SYSSTATS System Snapshot - Accumulate									
EXCEPTIONS Crit Warn Info BUFFERS EDM POOL									
Subsystem	5	3	3	Warnings	4540	DBD Lds	124	% Rqsts	0.0
Database	0	0	0	Act Pools	7	CT Lds	33	% Rqsts	4.7
Applicatn	0	0	0	% Act Pgs	0.5	PT Lds	114	% Rqsts	0.0
	Pct	Max	StIn	Getpages	14671K	Dyn Ins	130	% Rqsts	3.5
LIMITS	Current	Max	HWM	HWM	Sync Rds	74400			
Users	16	2	23	16	Read Eff	197.2	LOCKING		
TSO	0	0	13	0	Buf Updts	551700	Suspend	7538K	LOGGING
Batch	16	2	23	16	Pg Writes	2368	Escalate	0	Dlyd Wrts
DDF Actv	0	0	3	0	Write I/O	747	Timeout	1	Arch Read
DDF Inac	0	0	7	0			Deadlock	0	Min/Chkpt
Dataset	237	1		237					Warnings
									0
SQL ADDRESS SPACES THREADS Active Actv+Cmplt									
Dynamic	3670		DB2 Pct CPU	0.4	Count	16			3617
Ins+Upd+Dlt	5086		DB2 WSS (K)	553356	Commits	316515			378300
Open+Select	467235		DB2 Up Time	55:06:10	Aborts	1			182384
Accelerator	315				DB2 CPU	15:15:52			
					Indoubt	0			
STORED PROCEDURES POOL FAILURES									
SQL CALLs	217		RID	0					
Failures	0		EDM	0					
MISCELLANEOUS DATA SHARING									
DDF ACTIVE	Rel	12.1.500			Group	DSNDTGP			
RLF INACTIVE	SRC	!DT32			Member	DT32			
ACCELERATORS(1)									
% Avg CPU Usage	0.01		% Max Disk Usage	1.32					
% Avg CPU SSID	67.26		% Max Disk SSID	1.22	Cur Queued Requests				0
% Max Worker CPU	21.33		% Avg BP HitRatio	99.99	Avg Sort Overflows				0
% Max Coord. CPU	21.33				SQLs Failed SSID				96

This enhancement adds support for fields introduced in DB2 Accelerator v6+.

Two new important metrics depicting the efficiency of the Accelerator – buffer pool hit ratio and number of sort overflows are added on the main SYSSTATS report

Support for IDAA V7 - Replication

R/SYSACDTL		Accelerator Detail - Accum		Row 1-42/50	
				Accum	
Server Name	DTGP75	Accelerator Started	06/04/20	19:16:18	
Product ID	AQT07051	Accelerator Last State Changed	06/04/20	19:16:28	
Accel State	ONLINE	Replication Last State Changed	06/21/20	02:29:06	
Replication	STARTED				
Overall Accelerator Statistics					
Configuration		CPU Utilization	---This SSID---	-----All-----	
Processors	8	Query Execution	9.930000	10.390000	
Worker Nodes	1	Data Maintenance	53.750000	53.840000	
Worker Avg CPU (%)	19.33	Data Replication	1:22.804000	2:46.673000	
Coord. Avg CPU (%)	19.33				
Disk Utilization		Data Replication to Accelerator Tables			
Total Space (MB)	134997	Log Records Read	1313723	1428462	
Database Data	1958	Log Records Used	1310832	1425568	
for this SSID	1824	Bytes Processed	86499889	94546045	
Temporary Data	0	Rows Inserted	16	16	
Log Data	2699	Rows Updated	0	0	
Total Space Used (%)	3.45	Rows Deleted	6	6	
Storage Utilization		Latency Time	5:26:46.000000		
User Storage (MB)	82080	Velocity	0.004111		
SQL Stmtts (MB)	76638	Query Requests			
BP Hit Ratio (%)	99.99	Currently Active	0	0	
Sort Overflows	0	Maximum Active	14	14	
Query Queue		Succeeded	220	221	
Curr Length	0	With WAITFORDATA	135	135	
Average Wait	0.0000	Failed	128	128	
Maximum Wait	0.0000	With WAITFORDATA	96	96	
Curr Length SSID	0				
Accelerator Statistics for this SSID					
		-----Total-----		--Avg/Connect--	
Connects to Accel	4	TCP/IP CPU Time	0.004104	0.001026	
Requests to Accel	8	TCP/IP Elapsed	1:28.228627	22.057156	
Timeouts	0	Accel Elapsed	1:28.088570	22.022142	
Failures	0	Accel CPU	0.001476	0.000369	
Network Inbound	0	Accel Wait Time	1:28.038742	22.009685	
(KB/s) Outbound	0				

The Accelerator detailed statistics report has a new versioned layout which will be displayed in case the version is 6+

14 new fields are added:

- BP Hit Ratio and Sort Overflows substitute Data Slices
- Replication velocity is given in log seconds per second
- WAITFORDATA is the delay protocol that allows the queries to wait for replication to end.
- SSID query queue is the length of the accelerator queue for SSID
- More detailed configuration parameters and also Network usage.

Support for IDAA V7 - Replication

New fields from IFCIDs 3,316,401 were introduced.

These fields introduce support for **replication wait time** and **replication timeout counts** on the following levels:

- Thread level
- Static SQL statements
- Dynamic SQL statements

Updated Reports →

- ✓ Thread Accelerator Services THRDACCL
- ✓ Selected Dynamic SQL Statement in Cache DYNSQLTX,
- ✓ Dynamic SQL Stats - Current Hist Interval
- ✓ Dynamic SQL Stats - Current Hist Interval DYNSQLCI,

And Also STASQLTX, STASQLCD, HTACCEL, HTUACCEL, HSUDYNSD, HSDYNSQD, HSUSTASD, HSSTASQD, BTACTSML, BTACTTRL, BTDSQSML, BTDSQTRL, BTSSQTRL, BTSSQSML)

IDAA7 – Thread level

R/THRDACCL Thread Accelerator Services							
SORT N/A							
Auth ID DANAL04		Plan DSNEPC		Corr ID DANAL04			
Eligible times							
Elapsed 0.000000		CP		0.000000		ZIIP 0.000000	
Server Name DTGP75							
Product ID AQT07051							
Total		Avg/Con		Times		-----Total----- --Average/Connect--	
Connects	1			TCP/IP CPU	0.001109		0.001109
Requests	2	2.0		TCP/IP Elapsed	1:02.670592		1:02.670592
Timeouts	0	0.0		Accel Elapsed	1:02.622841		1:02.622841
Failures	0	0.0		Accel CPU	0.000000		0.000000
Repl Timeouts	1	1.0		Accel Wait	1:02.622844		1:02.622844
				Repl Wait	1:02.606300		1:02.606300
Statements							
INSERT	0	0.0	Rows				
DELETE	0	0.0	Inserted		0		0.0
UPDATE	0	0.0	Deleted		0		0.0
OPEN	0	0.0	Updated		0		0.0
COMMIT	1	1.0	Returned		0		0.0
ROLLBACK	0	0.0	Data Stream	Sent	Received	Sent	Received
CREATE	0	0.0	Bytes	2559	816	2559.0	816.0
DROP	0	0.0	Messages	11	11	11.0	11.0
			Blocks	0	0	0.0	0.0
			Rows	0	0	0.0	0.0

IDAA7 - Static SQLs

R/STASQLCD				Selected Static SQL Statement Detail				Row 3-44/44	
SORT N/A									
Con Token D83ED7F84D1869C8				Collection ID DANTIDAA					
				RID list occurrences		Limit	Storage		
Executed 1 times				Failed		0	0		
Time inserted 07/20/20 06:47:20				Paged out		0	0		
Stats updated 07/20/20 06:47:20				Interrupted		0	0		
				Retrieval skipped		0			
Expansion reason None									
Accelerator eligibility No									
		Total	Avg/Exec	%Elp		Total	Avg/Exec		
Elapsed time		0.000	0.00000	N/A	Getpages	0	0.0		
CPU time		0.000	0.00000	0.0	Rows examined	0	0.0		
Sync I/O time		0.000	0.00000	0.0	Rows processd	0	0.0		
Other read		0.000	0.00000	0.0	Sorts	0	0.0		
Other write		0.000	0.00000	0.0	Index scans	0	0.0		
Lock suspend		0.000	0.00000	0.0	Tblspce scans	0	0.0		
Exec unit sw		0.000	0.00000	0.0	Sync reads	0	0.0		
Latch request		0.000	0.00000	0.0	Sync writes	0	0.0		
Page latch		0.000	0.00000	0.0	Parallel grps	0	0.0		
Drain lock		0.000	0.00000	0.0	Estimated degree	N/A	0.0		
Drain claims		0.000	0.00000	0.0	Plan degree	N/A	0.0		
Log writer		0.000	0.00000	0.0	Active Degree	N/A	0.0		
Global lock		0.000	0.00000	0.0					
Child L-lock		0.000	0.00000	0.0					
Other L-Lock		0.000	0.00000	0.0					
P/P P-Lock		0.000	0.00000	0.0					
Page P-Lock		0.000	0.00000	0.0					
Other P-Lock		0.000	0.00000	0.0					
Wait Pipe		0.000	0.00000	0.0					
Parallel sync		0.000	0.00000	0.0					
		Executed 1 times in accelerator DTGP75							
		Total	Avg/Exec	%Elp		Total	Avg/Exec		
Queue wait		0.012	0.01256	N/A	Rows returned	20	20.0		
Elapsed time		0.019	0.01926	N/A	Bytes returned	300	300.0		
Wait 1st row		0.015	0.01588	82.4					
Replication		0.000	0.00000	0.0	Repl timeouts	0	0.0		
Wait DB2		0.003	0.00338	17.6					
Execution		0.003	0.00369	19.2					
CPU time		0.000	0.00066	3.4					

IDAA7 - Dynamic SQLs

R/DYNSQLTX	Selected Dynamic SQL Statement in Cache				Row 24-65/65	
SORT N/A						
CPU time	0.000	0.000	0.0	Rows examined	0	0.0
Sync I/O time	0.000	0.000	0.0	Rows processd	0	0.0
Other read	0.000	0.000	0.0	Sorts	0	0.0
Other write	0.000	0.000	0.0	Index scans	0	0.0
Lock suspend	0.000	0.000	0.0	Tblspce scans	0	0.0
Exec unit sw	0.000	0.000	0.0	Sync reads	0	0.0
Latch request	0.000	0.000	0.0	Sync writes	0	0.0
Page latch	0.000	0.000	0.0	Parallel grps	0	0.0
Drain lock	0.000	0.000	0.0	Estimated degree	N/A	0.0
Drain claims	0.000	0.000	0.0	Plan degree	N/A	0.0
Log writer	0.000	0.000	0.0	Active degree	N/A	0.0
Global lock	0.000	0.000	0.0			
Child L-lock	0.000	0.000	0.0			
Other L-Lock	0.000	0.000	0.0			
P/P P-Lock	0.000	0.000	0.0			
Page P-Lock	0.000	0.000	0.0			
Other P-Lock	0.000	0.000	0.0			
Wait Pipe	0.000	0.000	0.0			
Parallel sync	0.000	0.000	0.0			
60 bytes SQL stmt: SELECT COUNT(EMP.LASTNAME)						
Executed	1 times in accelerator DTGP75					
	Total	Avg/Exec	%Elp		Total	Avg/Exec
Queue wait	1:02.622	1:02.622	N/A	Rows returned	0	0.0
Elapsed time	1:02.622	1:02.622	N/A	Bytes returned	0	0.0
Wait 1st row	1:02.622	1:02.622	100			
Replication	1:02.606	1:02.606	100	Repl timeouts	1	1.0
Wait DB2	0.000	0.000	0.0			
Execution	0.000	0.000	0.0			
CPU time	0.000	0.000	0.0			

Support for Cross Invalidation

Support for Cross Invalidation

(003) ACCT - Group Buffer Pool Statistics

IXLAXISN-SUSPENDS-XI The number of suspensions of coupling facility asynchronous cross-invalidation service sync-up calls while waiting for asynchronous cross-invalidation to finish.

(1002) CURR-STATS2 - Group Buffer Pool Statistics

IXLCACHE-REQS-XI—The number of coupling facility cache requests with asynchronous cross-invalidation (XI).

IXLAXISN-SVCS-CALLS—The number of coupling facility asynchronous cross-invalidation service sync-up calls to determine whether all outstanding cross-invalidation (XI) notifications have been delivered.

IXLAXISN-SUSPENDS-XI—The number of suspensions of coupling facility asynchronous cross-invalidation service sync-up calls that occurred while waiting for asynchronous cross-invalidation to finish.

Support for Cross Invalidation - Updated (003) ACCT Reports

Thread Group Buffer Pool Report:

```

R/THRDGBP          Thread Group Buffer Pool
SORT N/A
Auth ID DANAL04    Plan DSNESPCS    Corr ID DANAL04
GROUP BUFFER POOL GBP0

READS
Hit Ratio 0.000
Data Returned      0      0      0
Data Not Returned
X-DB2 R/W         0      0      0
No X-DB2 R/W      N/A     0      0
Tot Not Returned  0      0      0
GetPgs GBP Dep Pgs N/A     N/A    3
WRITES   Chgd Pgs  Cln Pgs  Total
Sync     0        0      0
Wrt/Reg Multi Pgs 0
Wrt/Reg One Page  0

OTHER
Unregister page 1
Explicit X-Inv  0
Pri IXLCACHE Rq 0
XI SyncUp Waits 0

SECONDARY
Wrt Check Susp  0
IXLCACHE Req    0

PAGE P-LOCK
Space Map Lk Rq 0
Data Page Lk Rq 0
Indx Leaf Lk Rq 0
Unlock Requests 0
Spc Map Lk Susp 0
Data Pg Lk Susp 0
Indx Lf Lk Susp 0

```

Other Updated Reports:

- Thread Group buffer pool History Summary
- H.Probe Accounting summary for Plan
- Probe Thread Summary
- H Probe Thread Accounting Summary
- BTACTSML Detailed Summary of Accounting Information Report
- BTACTTRL Detailed Trace of Accounting Information Report

Support for Cross Invalidation - Updated (1002) CURR-STATS2 Reports

Subsystem Group Buffer Pool Statistics Report:

R/SYSGBUFD		Group BP Detail This DB2 - Accum					<u>Accum</u>	
GROUP BUFFER POOL GBP0								
READS		Buf Inv	Pg Gone	Async	Total	STORAGE FAILURES		
Data Returned		286	995	N/A	1281	Writes	0	
Data Not Returned		39032	147793	N/A	186825			
Hit Ratio 0.007						CASTOUT		
Storage Stats		48330	Changed Pages		34	Class	1148	
Directory Info		0	Castout Class		2536	Grp BP	0	
Castout Stats		485				Pages	60701	
Castout Multi Pgs		8119	Castout One Page		1045	OTHER		
WRITES		Chgd Pgs	Cln Pgs	Total	Write/Reg	Checkpts	0	
Sync		117529	0	117529	Req Mult	Del Pset	142	
Async		1046	0	1046	MultiPgs	CrossInv	0	
Total		118575	0	118575	Req 1 Pg	IXLCACHE Req	9501	
P-LK LOCK		Spacemap	Data	IndxLeaf		WrAround	0	
Requests		52912	5862	21817		ASYNC XIs		
Suspends		1	1	5		IXLCACHE Req	33	
Negotiate		1	0	0		SyncUP Calls	20	
Unlock Requests		81092				SyncUP Waits	0	
ALLOCATIONS		Current	StIn	HWM	RECLAIMS			
Directory entries		4896		4896	Directory entry			
Data entry		978		978	Directory entry with XI			
Data ents changed		12	*****		Data entry			
Size in 4K pages		2304		2304				
					811907K			
					837919K			
					33130952			

Other Updated Reports:

- Group Buffer Pool History Detail
- Group Buffer Pool History Summary Detail
- Batch Summary of DB2 Database Address Space Statistics Report
- Batch Statistics Data Trace Report

Support for new Resource Limit Facility codes

Support for new Db2 12 Resource Limit Facility codes

- About 40 new codes showing limit is defined based on which parameters:
 - Specific/Any **Auth ID**- Specific/Any **Collection ID** - Specific/Any **Package** - from Local/Any **Location**.
 - Specific/Any **Application name**, Specific/Any **User ID**, Specific/Any **Workstation**, Specific/Any **IP address**.
- And Also:
 - **INSTALL ZPARM USED FOR LIMIT** - Limit is specified by Zparm
 - **INFINITE - USER HAS SYSADM/SYSOPR AUTHORITY** - Infinite limit - User has super SYSADM/SYSOPR authority.

Support for new Db2 12 Resource Limit Facility codes

New Reports Thread Resource Limit Facility

“5” Active Threads → “Select Thread” → “6” More → “12” Resource Limit Facility

```
Menu  Print  Tools  Help      CA SYSVIEW for DB2      D12A CA31      05/04/20 06:20:23
                                20.0                        D12AENDK3      SNOOL01

                                                FOCUS OFF

R/THRDRLF      Thread Resource Limit Facility
SORT N/A
Auth ID SNOOL01      Plan DISTSERV      Corr ID db2jcc_appli

Resource Limit Table Name      DSNRLST01
ASU Limit      47470K      % of
CPU Limit      866.327      Limit
Current/Last CPU Resource Used      6.617      0.7
Maximum CPU Resource Used      0.004      0.0
How ASU value was determined      SPEC AUTH ANY COL ANY PKG ANY LOCN
Resource Limit Code      12
```

✓ Also Thread Resource Limit Facility History request (HTHRLF)

Support for new Db2 12 Resource Limit Facility codes

Detailed Summary Of Accounting Information (BTACTTRL)

REQUEST: BTACTTRL

DB2 SYS: D12A

FIRST RECORD 04/30/20 12:26:22

DETAILED TRACE OF ACCOUNTING INFORMATION

SQL DML	TOTAL	SQL DCL	TOTAL	SQL DDL	CREATE	DROP	ALTER	RESOURCE LIMIT FACILITY
-----	-----	-----	-----	-----	-----	-----	-----	-----
SELECT	0	LOCK TABLE	0	TABLE	0	0	0	LIMIT TABLE: DSNRLST01
INSERT	0	GRANT	0	INDEX	0	0	0	SRVCE UNITS: 47470K
UPDATE	0	REVOKE	0	TABLESPACE	0	0	0	CPU SECONDS: 866.327
DELETE	0	SET SQLID	0	STO GROUP	0	0	0	MAX CPU SEC: 0.004
MERGE	0	SET H VAR	0	DATABASE	0	0	0	LIMIT CODE : 12
TRUNCATE	0	SET DEGREE	0	SYNONYM	0	0		SPEC AUTH ANY COL ANY PKG ANY LOCN
PREPARE	1	CONNECT 1	0	VIEW	0	0	0	
CALLS	0	CONNECT 2	0	ALIAS	0	0		
DESCRIBE	0	RELEASE	0	PACKAGE		0		
DESC TBL	0	SET CONNEC	0	GBL TMP TBL	0			
OPEN	1	SET RULES	0	AUX TABLE	0			
CLOSE	0	ASSOC LOC	0	TRIGGER	0	0		

- Updated/redesigned Reports
 - Thread Locks Real Time
 - Thread Locks History
 - Thread Locks History Summary
 - Package History Lock Detail
 - Package History RLF Summary
 - Thread RLF History Summary
 - Package History Lock Summary
 - Detailed Summary Of Accounting Information Grouped By AUTH, PLAN, CORR
 - Detailed Summary Of Accounting Information

Documentation Improvement for Calculated Fields

Documentation Improvement for Calculated Fields

(003) DB2 Accounting Record

CA SYSVIEW® PERFORMANCE
MANAGEMENT OPTION FOR DB2 20



Version 20.0 ▼

English ▼

Search this product



IBM DB2 Field Name: [Calculated value](#)

• DECL-CPU-DB2-TOTAL

The total amount of CPU time used while in Db2 (accounting class 2). This time includes Db2 CPU time used by stored procedures, user-defined functions, and triggers. This time also includes zIIP CPU usage from both locally executed SQL and stored procedures and user-defined functions executed in a WLM or stored procedure address space.

IBM DB2 Field Names: [Calculated value](#)

• DECL-CP-DB2-TOTAL

The total amount of CPU time used on CP processors while in Db2.

IBM DB2 Field Names: [Calculated value](#)

• DECL-ZIIP-TIME-DB2

The total amount of CPU time used on specialty engines (zIIP) while in Db2. The zIIP CPU time is normalized.

IBM DB2 Field Names: [Calculated value](#)

• DECL-WAIT-DB2-IO

The total amount of thread elapsed time (accounting class 3) spent processing I/O requests or waiting for I/O requests performed for other threads.

IBM DB2 Field Names: [Calculated value](#)

• DECL-WAIT-LOCK

The total amount of thread elapsed time (accounting class 3) while waiting for a Db2 resource or a serializing process (latch). The value includes Db2 times such as page latch wait time, time the requester is suspended while waiting to acquire the drain lock, time waiting for claims to be released, and wait time for global lock contentions.

IBM DB2 Field Names: [Calculated value](#)

Documentation Improvement for Calculated Fields

(003) DB2 Accounting Record

Elapsed Time and Wait Time Fields Calculations

The following table specifies how the elapsed time and wait time fields are calculated.

IQL Field Name	IBM DB2 Field Names Calculation
TOTAL-TIME-DB2	QWACASC + QWACSPEB + QWACSPNF_ELAP + QWACUDEB + QWACUDFNF_ELAP + QWACTREE + QWACTRET
DECL-CPU-APPL	QWACEJST + QWACCLS1_ZIIP + QWACSPCP + QWACSP_CLS1SE + QWACUDCP + QWACUDF_CLS1SE
DECL-CPU-DB2-TOTAL	QWACAJST + QWACSPTT + QWACUDTT + QWACTRRTT + QWACTRTE + QWACSPNF_CP + QWACUDFNF_CP + QWACCLS2_ZIIP + QWACTRRTT_ZIIP + QWACSP_CLS2SE + QWACUDF_CLS2SE + QWACTRTE_SE + QWACSPNF_ZIIP + QWACUDFNF_ZIIP
DECL-CP-DB2-TOTAL	QWACAJST + QWACSPTT + QWACUDTT + QWACTRRTT + QWACTRTE + QWACSPNF_CP + QWACUDFNF_CP
DECL-ZIIP-TIME-DB2	QWACCLS2_ZIIP + QWACTRRTT_ZIIP + QWACSP_CLS2SE + QWACUDF_CLS2SE + QWACTRTE_SE + QWACSPNF_ZIIP + QWACUDFNF_ZIIP
DECL-WAIT-DB2-IO	QWACAWTI + QWACAWTR + QWACAWLG + QWACAWTW + QWAX_PIPE_WAIT
DECL-WAIT-LOCK	QWACAWTL + QWACAWTP + QWACAWTJ + QWACAWTK + QWACAWTM + QWACAWTN + QWACAWTO + QWACAWTQ + QWACAWLH + QWAC_PQS_WAIT + QWAXAWDR + QWAXAWCL
DECL-WAIT-LOG	QWAXALOG + QWAXAWAR

Documentation Improvement for Calculated Fields

(369) Repeating Fields

- **DECL-WAIT-DB2-IO**
The total amount of thread elapsed time (accounting class 3) spent processing I/O requests or waiting for I/O requests performed for other threads.
IBM DB2 Field Names: [Calculated value](#)
- **DECL-WAIT-LOCK**
The total amount of thread elapsed time (accounting class 3) w serializing process (latch). The value includes Db2 times such a requester is suspended while waiting to acquire the drain lock, and wait time for global lock contentions.
IBM DB2 Field Names: [Calculated value](#)
- **DECL-WAIT-LOG**
The total amount of thread elapsed time (accounting class 3) w suspended due to an -ARCHIVE LOG MODE(QUIESCE) comm suspend time for the individual threads, and not the time it took
IBM DB2 Field Names: [Calculated value](#)
- **DECL-WAIT-SERVICES**
The total amount of thread elapsed time (accounting class 3) w execution unit switches to Db2 services. The value includes Db open, close, define, extend, recall, or delete data sets; update S commit.
IBM DB2 Field Name: [Calculated value](#)

Elapsed Time and Wait Time Fields Calculations

The following table specifies how the elapsed time and wait time fields are calculated.

IQL Field Name	IBM DB2 Field Names Calculation
TOTAL-TIME-DB2	QWACASC + QWACSPEB + QWACSPNF_ELAP + QWACUDEB + QWACUDFNF_ELAP + QWACTREE + QWACTRET
DECL-CPU-APPL	QWACEJST + QWACCLS1_ZIIP + QWACSPCP + QWACSP_CLS1SE + QWACUDCP + QWACUDF_CLS1SE
DECL-CPU-DB2-TOTAL	QWACAJST + QWACSPTT + QWACUDTT + QWACTRTT + QWACTRTE + QWACSPNF_CP + QWACUDFNF_CP + QWACCLS2_ZIIP + QWACTRTT_ZIIP + QWACSP_CLS2SE + QWACUDF_CLS2SE + QWACTRTE_SE + QWACSPNF_ZIIP + QWACUDFNF_ZIIP
DECL-CP-DB2-TOTAL	QWACAJST + QWACSPTT + QWACUDTT + QWACTRTT + QWACTRTE + QWACSPNF_CP + QWACUDFNF_CP
DECL-ZIIP-TIME-DB2	QWACCLS2_ZIIP + QWACTRTT_ZIIP + QWACSP_CLS2SE + QWACUDF_CLS2SE + QWACTRTE_SE + QWACSPNF_ZIIP + QWACUDFNF_ZIIP

ZOWE Conformance



Zowe Conformant Status is earned...

<https://www.openmainframeproject.org/projects/zowe/conformance>



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CA Database Management Solutions for Db2 for z/OS (API Mediation Layer ZOWE V1)

Broadcom **Open Mainframe Project** Platinum Member

Zowe Conformant • API Mediation Layer ZOWE V1

RESTful APIs for Db2 for z/OS data access and management

Website	techdocs.broadcom.com/content/broadcom/techdocs/us/en/ca-mainframe-s...		
Crunchbase	crunchbase.com/organization/broadcom		
LinkedIn	linkedin.com/company/broadcom		
Twitter	@Broadcom	Latest Tweet	this week
Headquarters	San Jose, California	Headcount	10,001-1,000,000
Market Cap	\$132.73B		

Any Questions...



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MTC-DBM

Srinivas Adupa

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SQLCODES

MTC DBM: SQLCODE Charting

Use-case: I would like to

- see SQLCODE report in UI
 - Have the ability to chart
 - Segregate the report by looking at only those SQLCODES that I want with just a click
 - Detail report of an SQLCODE
 - Ability to Export the data into a CSV form
-
- Delivered with PTF : **SO14491**

Live Demo


Export to CSV

MTC DBM: EXPORT to CSV

Use-case: I would like to


- Export all the data of a data table to a CSV format
 - Perform my own charting (if data is there in my local system)
-
- Delivered with PTF : **SO14168**
-
- **Live Demo**

MTC DBM: Export to CSV




Mainframe Team Center
Database Management for Db2 for z/OS

?

 adusr01


AdministrationPerformance

 Select Db2 subsystem

SSID
D11A

Environment
QA@CA31.LVN.BROADCOM.NET:8800

Use Group Name ☐


 Select object type

Common Db2All Db2CA Admin

SGDBTS

TBIXVW

SYALTGTGUFPRSQ

 Specify filtering criteria

Object Name
*

Object Creator/Schema
*


Database Name
*

List Objects




☐ Auto Collapse

PLANS (D11A)DB LIST (D11A)TS LIST (D11A)

Actions



Active Filters: None



<input type="checkbox"/>	NAME	CREATOR	DBNAME	PARTITIONS	TYPE	IMPLICIT	NTABLES	NACTIVEF	DBID	OBID	PSID	BPOOL	SEGSIZE	DSSIZE	LOCKRULE	ERASERULE	CLOSERULE	SPACE
<input type="checkbox"/>	#FR#D5T1	PDBAR01	#FR#D5T	1	G	N	1	-1.0E0	3023	1	2	BP0	64	4194304	A	N	Y	
<input type="checkbox"/>	#QATSX	DONSA03	DSNDB04	0		N	0	-1.0E0	4	963	964	BP0	4	0	A	N	Y	
<input type="checkbox"/>	@@@	SKORO02	DSN04071	1	G	Y	1	-1.0E0	5746	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU.AG01	DSN01153	1	G	Y	1	-1.0E0	2740	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU.AG01	DSN01154	1	G	Y	1	-1.0E0	2741	4	5	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU.;G01	DSN01155	1	G	Y	1	-1.0E0	2742	4	5	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	1UIAG01	DSN01156	1	G	Y	1	-1.0E0	2743	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF04	KUBAG01	DSN05114	1	G	Y	1	-1.0E0	6789	1	2	BP1	32	4194304	R	N	Y	

Export to CSV button

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MTC DBM: Export to CSV

Export to CSV

Select one of the options to continue with the export:

- ☐ Export only selected rows
- ☐ Export only displayed table rows
- ☐ Export all rows

Select one of these and click on Export

The background interface shows the 'Mainframe Team Center Database Management for Db2 for z/OS' with tabs for 'Administration' and 'Performance'. The 'Select Db2 subsystem' section shows 'SSID: D11A' and 'Environment: QA@CA31.LVN.BROADCOM.NET:8800'. The 'Select object type' section shows 'Common Db2' selected. The 'Specify filtering criteria' section has fields for 'Object Name' and 'Object Creator/Schema'. A table of objects is visible with columns: NAME, CREATOR, DBNAME, PARTITIONS, LOCKRULE, ERASERULE, CLOSERULE, and SPACE.

NAME	CREATOR	DBNAME	PARTITIONS	LOCKRULE	ERASERULE	CLOSERULE	SPACE
#FR#D5T1	PDBAR01	#FR#D5T					
#QATSX	DONSA03	DSNDB04					
@@@	SKORO02	DSN04071	1 G Y	1	-1.0E0	5746	1 2 BP1
@TGFF03	KU:AG01	DSN01153	1 G Y	32	4194304	R	N Y
@TGFF03	KU:AG01	DSN01154	1 G Y	32	4194304	R	N Y
@TGFF03	KU:,G01	DSN01155	1 G Y	32	4194304	R	N Y
@TGFF03	1UIAG01	DSN01156	1 G Y	32	4194304	R	N Y
@TGFF04	KUBAG01	DSN05114	1 G Y	32	4194304	R	N Y

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MTC DBM: Export to CSV

ca

Mainframe Team Center

Database Management for Db2 for z/OS

?

adusr01

Administration

Performance

Select Db2 subsystem

SSID

D11A

Environment

QA@CA31.LVN.BROADCOM.NET:8800

Use Group Name

OFF

Select object type

Common Db2

All Db2

CA Admin

SG

DB

TS

TB

IX

VW

SY

AL

TG

UF

PR

SQ

Specify filtering criteria

Object Name

*

Object Creator/Schema

*

Database Name

*

List Objects

Auto Collapse

PLANS (D11A) X

DB LIST (D11A) X

TS LIST (D11A) X

Actions

↺

	NAME	CREATOR	DBNAME	PARTITIONS	TYPE	IMPLICIT	NTABLES	NACTIVEF	DBID	OBID	PSID	BPOOL	SEGSIZE	DSSIZE	LOCKRULE	ERASERULE	CLOSERULE	SPACE
<input checked="" type="checkbox"/>	#FR#D5T1	PDBAR01	#FR#D5T	1	G	N	1	-1.0E0	3023	1	2	BP0	64	4194304	A	N	Y	
<input type="checkbox"/>	#QATSX	DONSA03	DSNDB04	0		N	0	-1.0E0	4	963	964	BP0	4	0	A	N	Y	
<input type="checkbox"/>	@@@	SKORO02	DSN04071	1	G	Y	1	-1.0E0	5746	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU:AG01	DSN01153	1	G	Y	1	-1.0E0	2740	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU:AG01	DSN01154	1	G	Y	1	-1.0E0	2741	4	5	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	KU:,G01	DSN01155	1	G	Y	1	-1.0E0	2742	4	5	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF03	1UIAG01	DSN01156	1	G	Y	1	-1.0E0	2743	1	2	BP1	32	4194304	R	N	Y	
<input type="checkbox"/>	@TGFF04	KUBAG01	DSN05114	1	G	Y	1	-1.0E0	6789	1	2	BP1	32	4194304	R	N	Y	

Active Filters: None

Filter

Export

Settings

Export to CSV icon will blink
(symbol of in-progress)

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MTC DBM: Export to CSV

D11A.TS.csv - Excel

File Home Insert Page Layout Formulas Data Review View Tell me what you want to do... Sign in Share

Clipboard Font Alignment Number Styles Cells Editing

M5 32

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	NAME	CREATOR	DBNAME	PARTITIONS	TYPE	IMPLICIT	NTABLES	NACTIVEF	DBID	OBID	PSID	BPOOL	SEGSIZE	DSSIZE	LOCKRULE	ERASERULE	CLOSERULE	SPACE	PGSIZE	STATUS	NACTIVE	STATSTIME	LOCKMA
2	#FR#D5T1	PDBAR01	#FR#D5T	1	G	N	1	-1.00E+00	3023	1	2	BP0	64	4194304	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
3	#QAT5X	DONSA03	DSNDB04	0	N		0	-1.00E+00	4	963	964	BP0	4	0	A	N	Y	0	4	T	0	"0001-01-01 00:00:00.000000"	
4	@@@	SKORO02	DSN04071	1	G	Y	1	-1.00E+00	5746	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
5	@TGFF03	KU.AG01	DSN01153	1	G	Y	1	-1.00E+00	2740	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
6	@TGFF03	KU:AG01	DSN01154	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
7	@TGFF03	KU,,G01	DSN01155	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
8	@TGFF03	1U!AG01	DSN01156	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
9	@TGFF04	KUBAG01	DSN05114	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
10	@TGFFQ4	KUBAG01	DSN05115	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
11	A	BARWA02	DBX	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
12	A	A	DSN05373	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
13	A	PATPR10	DSN07385	1	G	Y	1	-1.00E+00									Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
14	A	HUBVI01	DSN08121	1	G	Y	1	-1.00E+00	9805	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
15	A0	WILMA35L	DSN00574	1	G	Y	1	-1.00E+00	1760	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
16	A001	WILMA35L	DSN09587	1	G	Y	1	-1.00E+00	11279	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
17	A0018028	KRUMA03	TSMATTDB	0	N		1	-1.00E+00	12480	6	7	BP1	4	0	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
18	A001A	HENPE01	IT02A1P	0	N		1	-1.00E+00	12171	1	2	BP2	64	0	P	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
19	A001A	BURSE01	QR01A1P	1	G	N	1	-1.00E+00	15557	12	13	BP2	64	4194304	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
20	A001RACC	WILMA35	DSN09944	1	G	Y	1	-1.00E+00	11636	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
21	A001RLIN	WEBCH03	DSN07618	1	G	Y	1	-1.00E+00	9302	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
22	A002	WILMA35L	DSN09588	1	G	Y	1	-1.00E+00	11280	4	5	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
23	A002A	RENTE01	DA754048	4	N		1	-1.00E+00	12489	1	2	BP2	0	0	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
24	A002A	BURSE01	QR01A1P	1	G	N	1	-1.00E+00	15557	14	15	BP2	64	4194304	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
25	A002RACC	WEBCH03	DSN07619	1	G	Y	1	-1.00E+00	9303	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
26	A002RACC	WILMA35	DSN09945	1	G	Y	1	-1.00E+00	11637	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
27	A003	WILMA35L	DSN09589	1	G	Y	1	-1.00E+00	11281	1	2	BP1	32	4194304	R	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	
28	A003A	BURSE01	QR01A1P	1	G	N	1	-1.00E+00	15557	16	17	BP2	64	4194304	A	N	Y	0	4	A	0	"0001-01-01 00:00:00.000000"	

D11A.TS

Ready 100%

Any Questions...



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In Closing...

Update to Tech Docs 'New Features' information

- When a new feature is added to the 'New Features' section of our 'Release Notes' the title of that feature will include the PTF # that delivers the new feature.
- The 'New Features' section can be found [here](#).
- Here is a list of some of our recent new features:
 - [Support for Unload from Remote Db2 \(LUW\) RDBMS \(SO14382\)](#)
 - [SQLCODE Reporting and Chart Support \(SO14491\)](#)
 - [Single Sign-On Support for an API Service in the Zowe API Mediation Layer \(SO14401\)](#)
 - [Capture Threshold Values \(CTV\) of objects selected by RTOS \(SO14174\)](#)
 - [Post-Install Enhancement to Support Non-Db2 for z/OS Binds \(SO14028\)](#)

When is the next Community Update call?

- The last Tuesday of each month
- Our next call will be Tuesday September 29th, 2020

Mainframe Technical Exchange Digital Experience

October 13 - 15, 2020

- Join our technical experts for education sessions, product strategy & ideation
- Registration is FREE and coming soon
- More details at <http://bit.ly/2020TechExchange>



**AI/ML and
Automation**



DevOps



**Infrastructure
Management**



Security

MTE Digital Experience – Db2 Tools Presentations

- DBM01 - CA Database Management Solutions for Db2 for z/OS Trends and Direction: DevOps, AIOps, and Data Protection
- DBM02 - Sort Out Your Db2 Utilities: Tuning Sort Packages to Optimize Workload Throughput
CA Fast Load for Db2 for z/OS,
CA Rapid Reorg for Db2 for z/OS
- DBM03 - Augmented Db2 Performance and Administration for New Developers Using Mainframe Team Center - Database Management for Db2 for z/OS
- DBM04 - DevOps: Automate Db2 Schema Management
- DBM05 - CA Db2 Tools and Db2 12 Continuous Delivery: What You Need to Know & CA Db2 Tools Maintenance and Configuration Hints and Tips
- DBM06 - CA Database Analyzer for Db2 for z/OS: Something Old, Something New, and Something Different
- DBM07 - What You Might or Might Not Know You Can Do With Db2 Backup and Recovery Tools: CA Log Analyzer for Db2 for z/OS & CA Fast Recover for Db2 for z/OS
- DBM08 - Archive Tables in CA SYSVIEW Performance Management Option for DB2
- DBM09 - Exploiting CA RC/Migrator for DB2 for z/OS: Tips and Tricks
- DBM10/DBM11 - CA Database Management for Db2 Customer Roundtables

CA Db2 Tools 20.0 Validation Project

- <https://validate.broadcom.com/key/DB2Tools200>
- Our next meeting is Thursday Sept 3rd, 2020



Thank You