



CBT TAPES TOOLS FOR DB2

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KLAUDIUSZ KONIECZKA, ENSONO

- » 26 Years in the IT Industry
- » Mainframe Experience: Over experience: 21 Years
- » Roles in Mainframe Area: Mainframe Operator, System Programmer, Technical Team Lead, Head of Mainframe Department
- » Past Employers: General Electric, Intel, Nordea. Overall: 15 Years in Banking Industry.
- » IBM Champion 2024, 2025, 2026
- » Speaker on GSE, TechXchange, PDUG
- » Location: Gdansk, Poland (Office-based)
- » Areas of Interest: Mainframes, Cybersecurity, DB2
- » Hobbies and Interests: Volleyball, Shooting, Skydiving
- » Current Responsibility: Building and maintaining the System Programmers team in Poland Ensono



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in size

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\$1,1B
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CBT INTRODUCTION AND HISTORY

CBTTAPE.ORG

More updates to the site coming soon! I hope to see everyone at [SHARE Pittsburgh, Pa, Aug 2026](#).

- **ALWAYS CHECK HERE FOR THE LATEST VERSIONS OF FILES:** All file updates are ONLY applied to the [UPDATES page](#) until a new tape version is cut. Please check the [UPDATES page](#) to see if your FILE NUMBER has been updated since the last "Version Cut" of the CBT Tape. If your file number is NOT on [UPDATES](#), ONLY THEN should you download it from the [CBT subdirectory](#). Don't download a back-level file unnecessarily.
- CBT510 is [available to download now!](#)
- COV466 is [available to download now!](#)
- The latest CBT and COV [Updates are always available to download here!](#)
- If you arrived here from another site, please note: NO USERID, PASSWORD, or MEMBERSHIP is required to use this site. To get into this site directly, just click: <https://www.cbttape.org>
- Sam Golob's Articles about Systems Programming [available to download here](#). Over 230 articles on relevant aspects of the craft.
- CBT and COV [available to download in FDR and DFSMSdss formats](#) updated for CBT510.
- Raw AWS versions of CBT510 and COV466 are available in the [AWS tape library](#).

Downloads

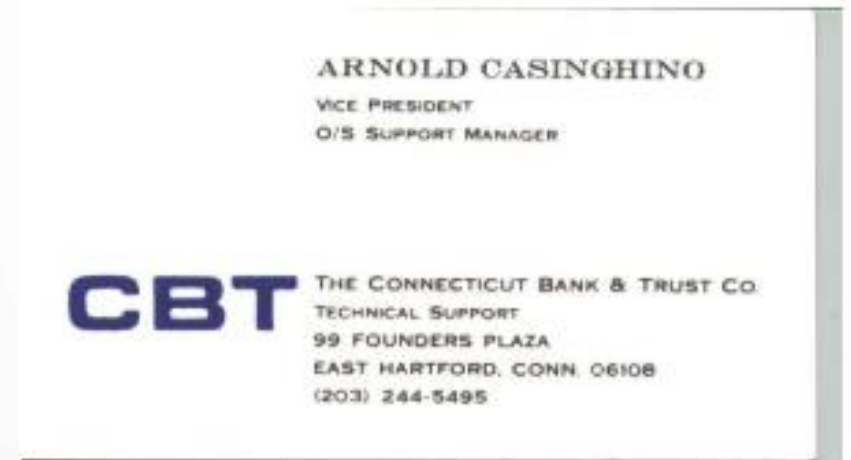
- CBT
- Updates
- Overflow
- JES3
- JES2
- CBT249 & Older
- UCLAmail
- SPLA
- Xmit Manager
- XMIT Viewers
- MVS 3.8J
- VM/370 R6
- OS/360
- PDS 8.6
- MVT Mods
- PC Tools
- AWSTAPE
- DSS-FDR Format
- AWS Format
- ZIP Format Data
- Xephon Magazines

WHAT ARE CBT TAPES?

- » Community-driven collection of z/OS utilities
 - » Created by system programmers, for system programmers
 - » Shared freely for learning, reuse, and inspiration

WHAT DOES CBT STAND FOR?

- » Connecticut Bank & Trust Company
 - » Edited by Arnold Casinghino
 - » Versions 1 through 321



- » Edited by Sam Golob
 - » CBT initials kept for historical reasons
 - » No longer tied to Connecticut Bank & Trust

[Latest Updates V510 not incorporated in the Files Below — GET THE LATEST FILES HERE!](#)

V510 Final Version Files

[List ALL files](#) [List only NEW files](#)

[File # 001 Detailed documentation of the CBT MVS Utilities Tape](#) NEW
[File # 002 CBT973 Compression-Decompression Program for Files](#)
[File # 003 JCL member to load each tape file to disk](#) NEW
[File # 004 Put ./ ADD cards into this file to make a PDS](#)
[File # 005 VMREXX exec to load CBT tape to VM - V2.0](#)
[File # 006 Collection of Utilities to manipulate File 001](#) doc NEW
[File # 007 SYSUPLOG \(keep as EBCDIC only\) - sequential data](#)
[File # 008 Jobs used to create the previous CBT Tape version](#) NEW
[File # 009 Gene Lew old RACF exits](#)
[File # 010 IMON for z/OS - a comprehensive z/OS monitor](#)
[File # 011 MVS DEBE, MSG2USER, System Info into CLIST variables](#)
[File # 012 John Hancock Mutual ISPF Background Jobs driver](#)
[File # 013 SHARE RACF mods tape - SETPW2 fixed - WHOIS fixed](#)
[File # 014 Sam Golob's PDS & SMP/E Introduction tutorial, etc.](#)
[File # 015 Warner Brothers collection of Utilities and Exits](#)
[File # 016 Scott & White Hospital User Exits](#)
[File # 017 LISTDD program from Firemen's Fund](#)
[File # 018 TSUPDATE program from Conrail](#)
[File # 019 Utilities from John Hooper](#) NEW
[File # 020 A collection of system level REXX execs](#)
[File # 021 BELL & HOWELL operator communication utilities](#)
[File # 022 A collection of utilities from Mark Hedges](#)
[File # 023 Mods to LOGON to TSO under a secondary JES2](#)
[File # 024 XFERDUMP from MCI - originally from Howard Dean](#)
[File # 025 TSO Console Pgm and other pgms from TU Services](#)
[File # 026 Program to take a survey at TSO LOGOFF time](#)
[File # 027 Date Check utility from DAYCO Products](#)
[File # 028 CLISTS to generate JCL to backup a list of datasets](#)
[File # 029 Cook Book instructions to Enlarge the VTOC of a pack](#)
[File # 030 Mods to change console pkeys MVS370 thru XA 2.1.7](#)
[File # 031 IGGPRE00 exit with RACF interface](#)
[File # 032 JCLSCAN, COPYPACK, DOWNDATE programs](#)
[File # 033 SHARE JES2 Song Book](#)
[File # 034 RACFUSER - program to print PASSWORD info by userid](#)
[File # 035 LOAD MODULE file - Quick install of useful programs](#) NEW
[File # 036 FIXPDS, ISPF-based utility, Restore deleted members](#)
[File # 037 COPYCAT - pgm to copy and reorganize CVOLs](#)
[File # 038 KLINGON - TSO based reverse STAR TREK game](#)
[File # 039 CITIBANK - SMF 14-15 pgm, and IPOUPDTE mod & doc](#)

WHAT CBT TAPES ARE NOT

- » Not a supported product
 - » No warranties or SLAs
 - » Not a replacement for vendor tools



DOWNLOAD / UPLOAD / RECEIVE WORKFLOW

CBT Tape Downloads

V510 Final Version — Apr 14, 2026

The files are all packaged with PKZIP and are in EBCDIC so you download from here, unzip, **upload as Binary** (No EBCDIC to ASCII translation) to your mainframe to an **FB80** data set.

Sequential files are suffixed `.DATA` and are ready to use after being uploaded (again as Binary). File 1 through 5, and 7, are the only files always not packaged with XMIT. Files suffixed `.XMI` are in XMIT format so you will need to do a TSO command `RECEIVE INDATASET(???)` where `???` is the file you upload to transform it back to usable PDS or sequential file.

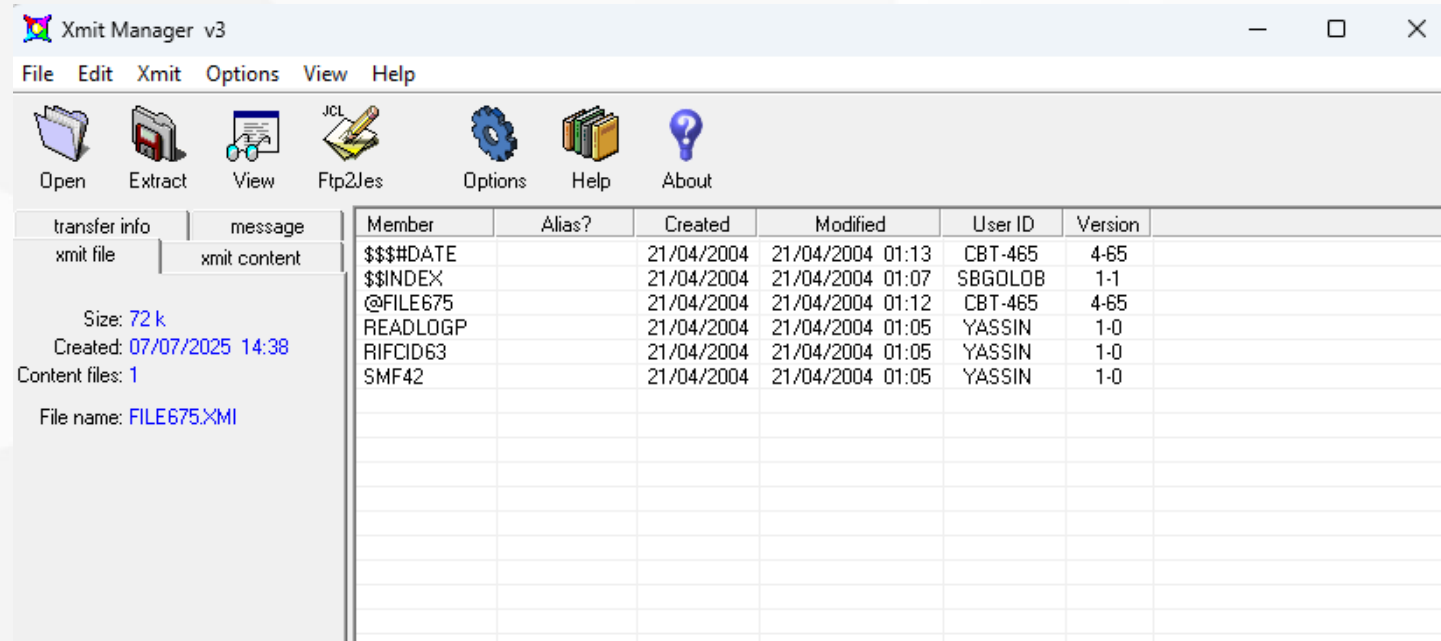
You will need a utility to unzip (decompress) the .ZIP files. Suggested options: [7-Zip \(free\)](#), [WinZip](#), or [RAR](#).

cbttape.org

Open Mainframe Project GitHub

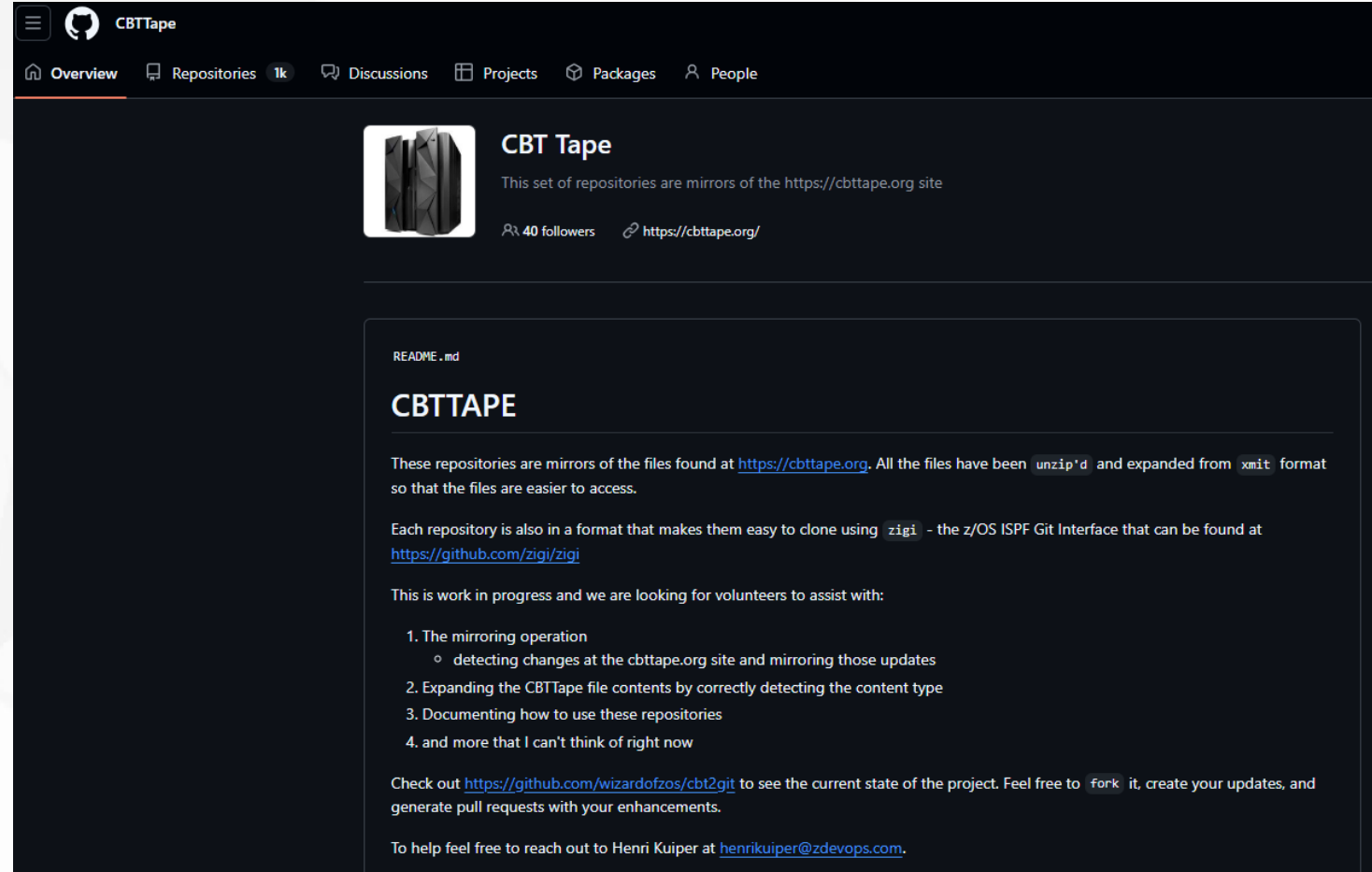
Individual repositories per CBT file

- » ZIP archives
 - » XMI (TSO TRANSMIT)
 - » DAT sequential files
- » Download ZIP to PC
 - » Extract XMI or DAT
 - » Binary upload to z/OS



RECEIVING XMI ON Z/OS

- » TSO RECEIVE INDATASET
- » Restore to PDS or PDS/E
 - » UNIT/VOLUME optional



The screenshot shows the GitHub repository page for 'CBTTape'. The repository is described as a set of mirrors for the <https://cbttape.org> site. It has 40 followers and a website link to <https://cbttape.org/>. The README file is visible, containing the following text:

README.md

CBTTAPE

These repositories are mirrors of the files found at <https://cbttape.org>. All the files have been `unzip'd` and expanded from `xmit` format so that the files are easier to access.

Each repository is also in a format that makes them easy to clone using `zigi` - the z/OS ISPF Git Interface that can be found at <https://github.com/zigj/zigj>

This is work in progress and we are looking for volunteers to assist with:

1. The mirroring operation
 - detecting changes at the cbttape.org site and mirroring those updates
2. Expanding the CBTape file contents by correctly detecting the content type
3. Documenting how to use these repositories
4. and more that I can't think of right now

Check out <https://github.com/wizardofzos/cbt2git> to see the current state of the project. Feel free to `fork` it, create your updates, and generate pull requests with your enhancements.

To help feel free to reach out to Henri Kuiper at henrikuiper@zdevops.com.

\$DOC /
\$README /
\$INDEX

Header
comments

File 1 =
CBT
roadmap

DB2 CBT TOOLS

- » DB2 reporting utilities (REXX)
 - » Offline, post-processing only
 - » Author: Isaac Yassin
 - » Focus: explaining DB2 behavior



CBT FILE 675 – CONTENTS

- » READLOGP
 - » SMF42
 - » RIFCID63
 - » No exits, hooks, or IFI



- » Input: DSN1LOGP SYSSUMRY
 - » Produces 5 workload reports
 - » Focus on logging & commit behavior



```
starting 08:46:25
INPUT File = OEMPP.DSNLOGP.OUTPUT.TEMP2
after reading 100000 records 08:46:25 cpu 4.58
at final report 08:46:28
```

```
0. HELP Information - How to use
```

```
=====
/*=====*/
/*
/* Report usage HELP information
/* -----
/*
/* 1. Then 1st report: 1. RBA RANGE OVERLAPPING REPORT
/* contains RBA ranges of UR (Unit of Recovery) from the
/* DB2 logs for the given time period.
/* 2. You can locate the needed time in there by searching
/* for 'TIME=' with the correct time,
/* e.g 'find TIME=20:21:26'
/* 3. Next look at the line + next line !
/*
/* If you see something like:
/*
/* 010E6C834EE7 ==> 010E6C8E988C UR files: 15 DATE=03.076
/* 010E6C8E9C5C ==> 010E6C8EF0C9 UR files: 15 DATE=03.076
***
```

```

/*
/*   THEN THE 1ST ONE IS A GOOD POINT TO RECOVER TO.
/*   -----
/*
/*
/*   If you see something like:
/*
/*   010E6C9F870C ==> 010E6C9F8A4B UR  files: 1 DATE=03.076
/*   -> 010E6C924560 ==> 010E6CA157EF UR  files: 15 DATE
/*
/*   THEN IT'S NOT A GOOD POINT to RECOVER TO.
/*   -----
/*
/* WHY ?
/*
/*   Because the 2nd line shows a UR that started within
/*   the 1st one !- so when the 1st ended the 2nd was still
/*   active.
/*
/* SO - YOU MUST LOOK FOR A GOOD RBA near the needed time !
/*
/* =====
/*
/* When you do choose RBA look for it in the 2nd report to
/* see which files were affectd in it, and whether there
***

```

```
/* are any '*write pend*' files in there. */
/* */
/*=====*/
/* */
/* Changed File Report: */
/* ++++++ */
/* */
/* The Changed Files Report shows a list of all files that */
/* were changed during the analyzed perio. */
/* This is a summary list, so any file that was changed */
/* many times will appear only once. */
/* */
/* The list is ordered by the END RBA so you only need to */
/* locate your -RECOVER TO- RBA in it and you get the full */
/* list of files that were changed since that RBA till end */
/* of given log. */
/* */
/*=====*/
```

1. RBA RANGE OVERLAPPING REPORT

=====

```
vrba.0=69 cpu      7.09
end rba overlap-cpu  7.09
```

```
000000000039FA74AA0 ==> 000000000039FA79B39 CK STARTLSN=00E23FCC223C79316C00  ENDLRSN=00E23FCC223FB7584000
***
```

```

000000000039FA79DC9 ==> 000000000039FA7A3FA UR files: 3 DATE=26.047 TIME=03:12:51 COMMITTED COMPLETE
000000000039FA7A458 ==> 000000000039FA7A68C UR files: 1 DATE=26.047 TIME=03:12:51 COMMITTED COMPLETE
000000000039FA7A6EA ==> 000000000039FA7C254 UR files: 2 DATE=26.047 TIME=03:12:51 COMMITTED COMPLETE
000000000039FA7C370 ==> 000000000039FA81A5A CK STARTLRSN=00E23FCD405E07C04200 ENDLRSN=00E23FCD405E4E4A4400
000000000039FA82287 ==> 000000000039FA877F7 CK STARTLRSN=00E23FCE5E80FEAEAA00 ENDLRSN=00E23FCE5E81363CCC00
000000000039FA8794D ==> 000000000039FA8CE77 CK STARTLRSN=00E23FCF7CA1516F2200 ENDLRSN=00E23FCF7CA245900800
000000000039FA8D000 ==> 000000000039FA92577 CK STARTLRSN=00E23FD09AC4BB83C800 ENDLRSN=00E23FD09AC4F8EE4C00
000000000039FA926CD ==> 000000000039FA97C39 CK STARTLRSN=00E23FD1B99DAFE67000 ENDLRSN=00E23FD1B99E36A96A00
000000000039FA97D8F ==> 000000000039FA9D2CA CK STARTLRSN=00E23FD2D7CDCC99E200 ENDLRSN=00E23FD2D7CE06501800
000000000039FA9D4DE ==> 000000000039FA9F05E UR files: 2 DATE=26.047 TIME=03:42:51 COMMITTED COMPLETE
000000000039FA9F0BC ==> 000000000039FAA450C CK STARTLRSN=00E23FD3F5F6BE40D600 ENDLRSN=00E23FD3F5F6FDE97200
000000000039FAA4A70 ==> 000000000039FAAA000 CK STARTLRSN=00E23FD51419D9FF6A00 ENDLRSN=00E23FD5141A14E1C800
000000000039FAAA156 ==> 000000000039FAAF677 CK STARTLRSN=00E23FD6323E43F98400 ENDLRSN=00E23FD6323E7A254400
000000000039FAAF7CD ==> 000000000039FAB4D4A CK STARTLRSN=00E23FD750637491CC00 ENDLRSN=00E23FD75063BC665800
000000000039FAB5320 ==> 000000000039FAB5590 UR files: 1 DATE=26.047 TIME=04:00:31 COMMITTED COMPLETE
000000000039FAB5728 ==> 000000000039FABAACA CK STARTLRSN=00E23FD86F2228F38600 ENDLRSN=00E23FD86F226FA32E00
000000000039FABAB62 ==> 000000000039FABFDCA CK STARTLRSN=00E23FD98D4ABC695400 ENDLRSN=00E23FD98D4AF6888400
000000000039FABFF20 ==> 000000000039FAC17DB UR files: 2 DATE=26.047 TIME=04:12:51 COMMITTED COMPLETE
000000000039FAC1839 ==> 000000000039FAC6CE5 CK STARTLRSN=00E23FDAAB79FD6C1200 ENDLRSN=00E23FDAAB7A8089CC00
000000000039FAC6D7D ==> 000000000039FACC000 CK STARTLRSN=00E23FDBC99C789F8800 ENDLRSN=00E23FDBC99CB8265000
000000000039FACC214 ==> 000000000039FAD13B9 CK STARTLRSN=00E23FDCE7C58D1BB200 ENDLRSN=00E23FDCE7C62A31A400
000000000039FAD150F ==> 000000000039FAD674A CK STARTLRSN=00E23FDE05E693A7CC00 ENDLRSN=00E23FDE05E6CA7C5200
000000000039FAD68A0 ==> 000000000039FADBA39 CK STARTLRSN=00E23FDF257BBF8B2400 ENDLRSN=00E23FDF257C020AB600
000000000039FADBC4D ==> 000000000039FAE0DB9 CK STARTLRSN=00E23FE043B5A994B400 ENDLRSN=00E23FE043B60A269200
000000000039FAE0E51 ==> 000000000039FAE1EA6 UR files: 2 DATE=26.047 TIME=04:42:51 COMMITTED COMPLETE
000000000039FAE2000 ==> 000000000039FAE71B9 CK STARTLRSN=00E23FE161E6BA1C0800 ENDLRSN=00E23FE161E700C67000

```

```

000000000039FB6103C ==> 000000000039FB61D6C UR  files: 2 DATE=26.047 TIME=06:42:51 COMMITTED COMPLETE
000000000039FB61DCA ==> 000000000039FB67000 CK  STARTLRSN=00E23FFC386C90F12800  ENDLRSN=00E23FFC386CCBDAB600
000000000039FB672EC ==> 000000000039FB6C477 CK  STARTLRSN=00E23FFD5698B7610400  ENDLRSN=00E23FFD5698F007A400
000000000039FB6C5CD ==> 000000000039FB7168C CK  STARTLRSN=00E23FFE74C17762C400  ENDLRSN=00E23FFE74C1B4283200
000000000039FB717E2 ==> 000000000039FB7694A CK  STARTLRSN=00E23FFF92E91FB70000  ENDLRSN=00E23FFF92E9560CCC00
000000000039FB76AA0 ==> 000000000039FB7BBF7 CK  STARTLRSN=00E24000B1AD34CD2E00  ENDLRSN=00E24000B1ADB7AC6600
000000000039FB7BD4D ==> 000000000039FB80DB9 CK  STARTLRSN=00E24001CFDB538B8A00  ENDLRSN=00E24001CFDB87EE8400
000000000039FB80F0F ==> 000000000039FB81C7E UR  files: 2 DATE=26.047 TIME=07:12:51 COMMITTED COMPLETE
000000000039FB81CDC ==> 000000000039FB86F22 CK  STARTLRSN=00E24002EE4AC24CC000  ENDLRSN=00E24002EE4B0DBAE800
000000000039FB8720C ==> 000000000039FB8C2B9 CK  STARTLRSN=00E240040C7890942C00  ENDLRSN=00E240040C793CD29000
000000000039FB8C40F ==> 000000000039FB91577 CK  STARTLRSN=00E240052AB0B6EBB000  ENDLRSN=00E240052AB0FC5BEA00
000000000039FB916CD ==> 000000000039FB96824 CK  STARTLRSN=00E2400648ED694DB400  ENDLRSN=00E2400648EEF0F3A200
000000000039FB9697A ==> 000000000039FB9BA39 CK  STARTLRSN=00E2400767951E5E8800  ENDLRSN=00E240076795665C2200
000000000039FB9BB8F ==> 000000000039FBA0CF7 CK  STARTLRSN=00E2400885E6BD794800  ENDLRSN=00E2400885E703B0B600
000000000039FBA0D8F ==> 000000000039FBA1AEC UR  files: 2 DATE=26.047 TIME=07:42:51 COMMITTED COMPLETE
000000000039FBA1C08 ==> 000000000039FBA6C8C CK  STARTLRSN=00E24009A43CD68D2600  ENDLRSN=00E24009A43D11DC0200
=====

```

2. LIST OF incomplete UR in log range

```

=====
NO incomplete UR were found
=====

```

3. LIST OF DB2 Checkpoint & UR info.

```

=====

```

```

000000000039FB80F0F ==> 000000000039FB81C7E UR
-> DSND06.SYSTSTSS
-> DSND06.SYSTSISS files: 2 DATE=26.047 TIME=07:12:51 COMMITTED COMPLETE
-----

000000000039FB81CDC ==> 000000000039FB86F22 CK STARTLRSN=00E24002EE4AC24CC000  ENDLRSN=00E24002EE4B0DBAE800
000000000039FB8720C ==> 000000000039FB8C2B9 CK STARTLRSN=00E240040C7890942C00  ENDLRSN=00E240040C793CD29000
000000000039FB8C40F ==> 000000000039FB91577 CK STARTLRSN=00E240052AB0B6EBB000  ENDLRSN=00E240052AB0FC5BEA00
000000000039FB916CD ==> 000000000039FB96824 CK STARTLRSN=00E2400648ED694DB400  ENDLRSN=00E2400648EEF0F3A200
000000000039FB9697A ==> 000000000039FB9BA39 CK STARTLRSN=00E2400767951E5E8800  ENDLRSN=00E240076795665C2200
000000000039FB9BB8F ==> 000000000039FBA0CF7 CK STARTLRSN=00E2400885E6BD794800  ENDLRSN=00E2400885E703B0B600
000000000039FBA0D8F ==> 000000000039FBA1AEC UR
-> DSND06.SYSTSTSS
-> DSND06.SYSTSISS files: 2 DATE=26.047 TIME=07:42:51 COMMITTED COMPLETE
-----

000000000039FBA1C08 ==> 000000000039FBA6C8C CK STARTLRSN=00E24009A43CD68D2600  ENDLRSN=00E24009A43D11DC0200
=====

4. LIST OF OPEN UR & DB Info.
=====

EXECIO "lines" positional parameter is not valid. Specify * or a number.
=====

5. LIST OF Files that were changed within the given range.
***

```

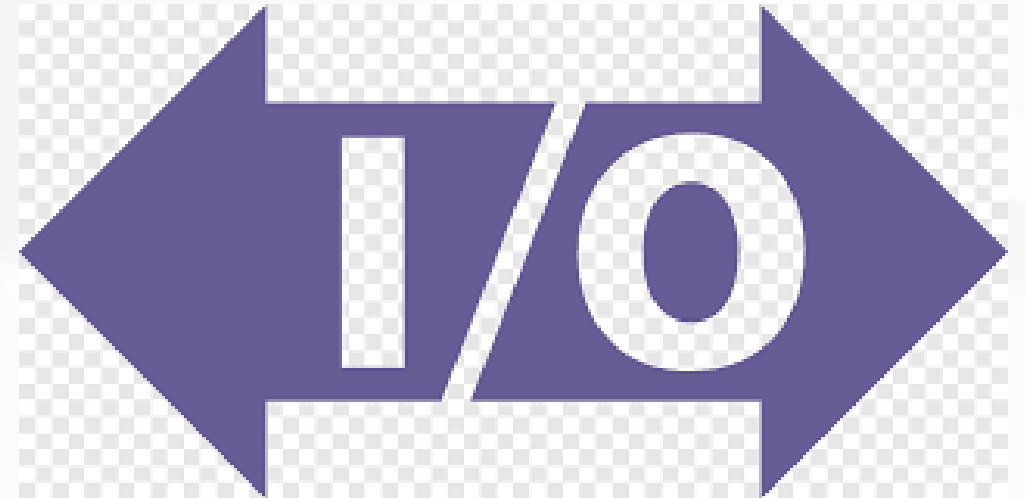
The list is ordered by ascending RBA

```
=====
start sort of CFR 08:46:28
end   sort of CFR 08:46:29
000000000039FAB5590      DSNDB01.SYSLGRNX
=====
***
```

Report	Purpose	Key Value
1. RBA Overlap	Safe PIT recovery selection	Avoid inconsistent recovery
2. Incomplete UR	Failed/in-flight work	Detect problems
3. CK + UR timeline	Activity history	Context + debugging
4. Open UR / DB	Restart state	Detect write-pend
5. Changed Files	Impact analysis	What must be recovered

» SMF42: SMF Type 42.6 I/O analysis

- » - Top I/O consuming datasets
- Slow storage (high RESP or IOSQ)
- Jobs causing heavy I/O
- Poor cache utilization
- Sequential vs random access patterns



- » RIFCID63: SMF 102 IFCID 63 SQL text
- » Proves what really happened

1. Find problematic SQL

- Identify slow queries
- Spot full table scans
- Detect bad access patterns

2. Audit application behavior

- See *exact SQL generated by apps*
- Validate ORM frameworks (Java, etc.)
- Detect unexpected SQL

3. Security / compliance

- Detect:
 - Direct table access
 - Unauthorized queries
 - Data exfiltration patterns

4. Performance tuning

- Capture real workload
- Feed into:
 - EXPLAIN
 - Query tuning tools
- Build SQL workload repository

5. Troubleshooting

- “What SQL ran at 10:15 when system slowed down?”
- Correlate with CPU / IO / locks

- » Uses existing DB2 outputs
 - » 100% offline analysis
 - » PMR-ready & audit-safe

- » Execute DB2 SQL in batch
 - » Dataset-driven SQL input
 - » Simple scheduling and automation



- » Improved batch SPUFI
 - » Cleaner SQL handling
 - » More readable output

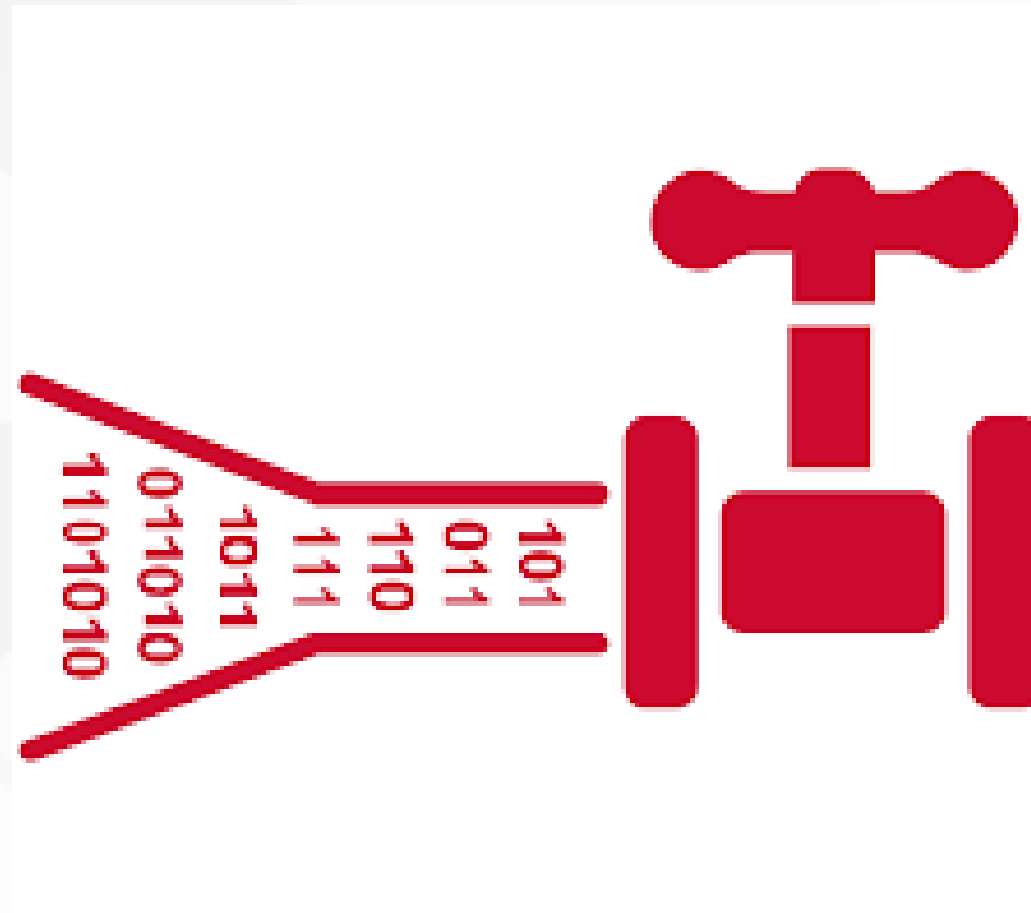


- » REXX-based DBA scripts
 - » Catalog queries and reports
 - » Automation helpers

Bridges DB2 SQL - z/OS system services

Avoids writing external programs for:

- dataset discovery
- PDS browsing
- catalog queries



- » More modern coding style
 - » DBA convenience functions
 - » Good source of reusable logic

Panel-driven (ISPF style)

REXX-based

Covers navigation + DDL + utilities + performance

Think of it as a mini Data Studio + SPUFI + DB2 Admin Tool combined, but running natively on z/OS.

HOW THESE TOOLS FIT WITH CBT 675

- » CBT 675 explains DB2 behavior
 - » Other CBT tools support work around DB2
 - » Different tools for different problems



GENERIC CBT TOOLS

- » Comprehensive z/OS system snapshot
 - » IPL, system options, hardware context
 - » Frequently requested by IBM

```
BROWSE Mark's MVS Utilities - IPLINFO                                IPLINFO 2025-10-
Command ==>                                                         Scroll ==> PA
***** Top of Data *****
*****
***** IPLINFO - SYSTEM INFORMATION FOR MF1T *****
*****
Today is Tuesday 2026-04-21 (2026.111). The local time is 04:58:00.

The last IPL was Wednesday 2026-02-18 (2026.049) at 11:33:14 (62 days ago).
The IPL was done with CLPA.
The system IPL address was B400 (B400).
The IPL LOAD PARM used was 96561VM (9656 1V M).
The local time offset from GMT time is -5 hours.
The system is running in z/Architecture mode (ARCHLVL = 2).
The Processor name is P00C4000.
The sysplex name is MFAPLEX1. This was system number 1 added to the sysplex.
```

- » Real-time system visibility
 - » Successor concept to SHOWMM
 - » Fast, text-based operational insight

It uses internal control blocks + undocumented interfaces

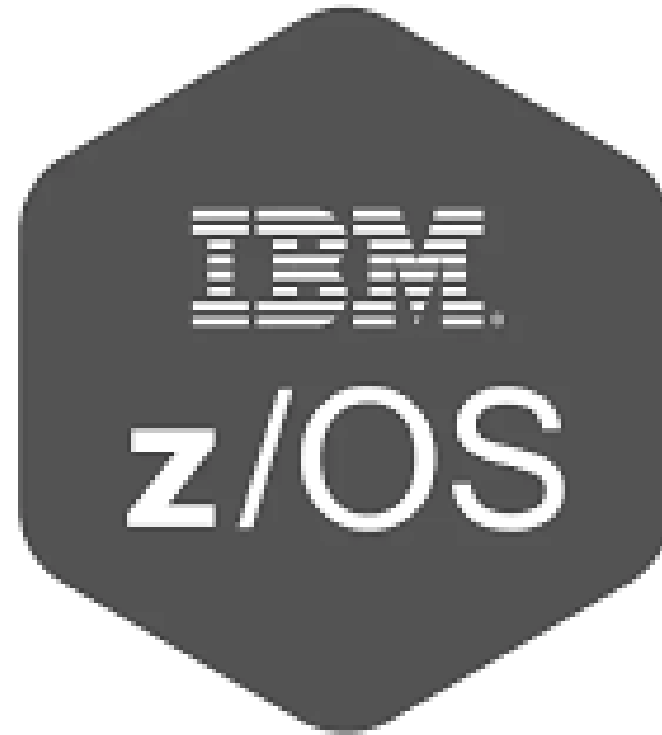
(not just standard commands)

So it can show:

Hidden system data

Internal tables

Advanced subsystem details



HOW IPLINFO AND SHOWZOS COMPLEMENT CBT 675

- » CBT 675 explains DB2 behavior
 - » IPLINFO provides system context
 - » SHOWZOS shows live system state

- » Few CBT tools are DB2-specific
 - » Many CBT tools explain DB2 indirectly
 - » Accuracy of context matters

**DB2 System Programmer
CBT Toolbox**
Overview & Decision Map

DB2 Forensics

CBT 675
READLOGP
SMF42
RIFCID63

DBA Productivity

CBT 1009 / CBT 1015
REXX helpers
Automation & reports

Batch SQL Execution

CBT 701 / CBT 866
'Batch SPUFI'
Scheduled SQL

System Context

IPLINFO – CBT 434
SHOWZOS – CBT 492

- » Hundreds of ready-to-use utilities
 - » Large collection of real-world code examples
 - » REXX, assembler, COBOL, and batch languages
 - » Proven ideas from real production systems

- » <https://www.cbttape.org>
 - » Open Mainframe Project
 - » CBT File 1
 - » <https://github.com/CBTTape>

QUESTIONS?

PDUG



POLISH DB2 USERS GROUP

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