



BCV5

Log enhanced copies for 24x7 DB2 Refresh/Migration

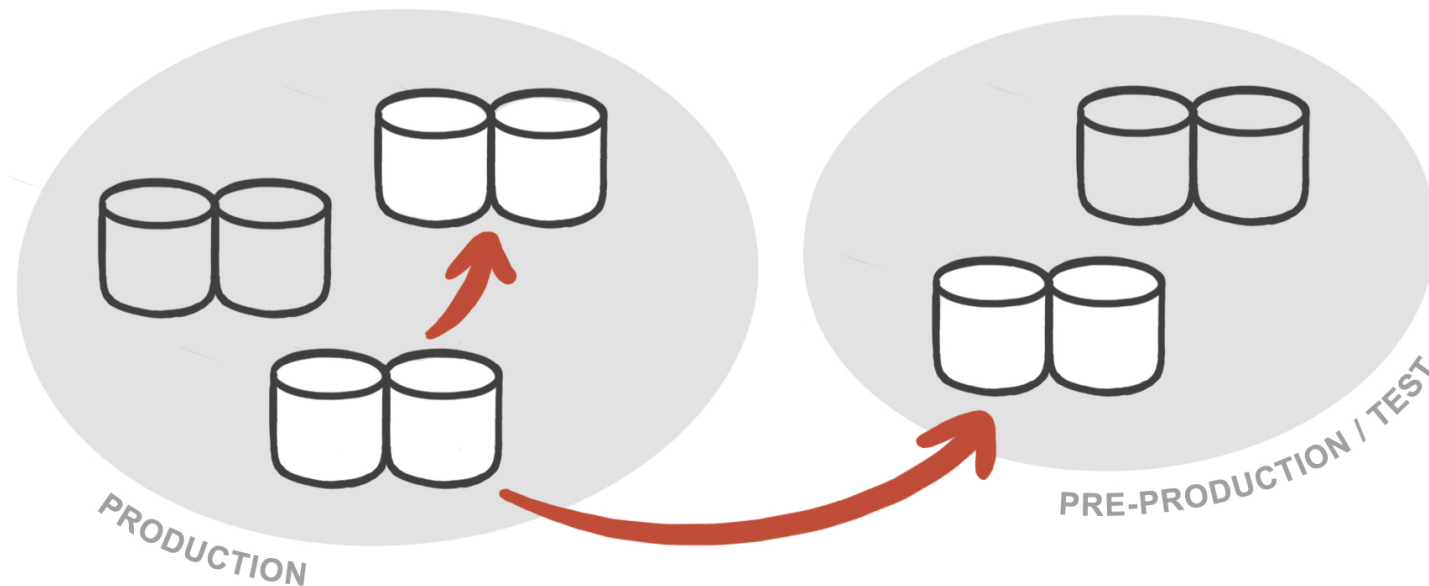
Kai Stroh

kai.stroh@ubs-hainer.com

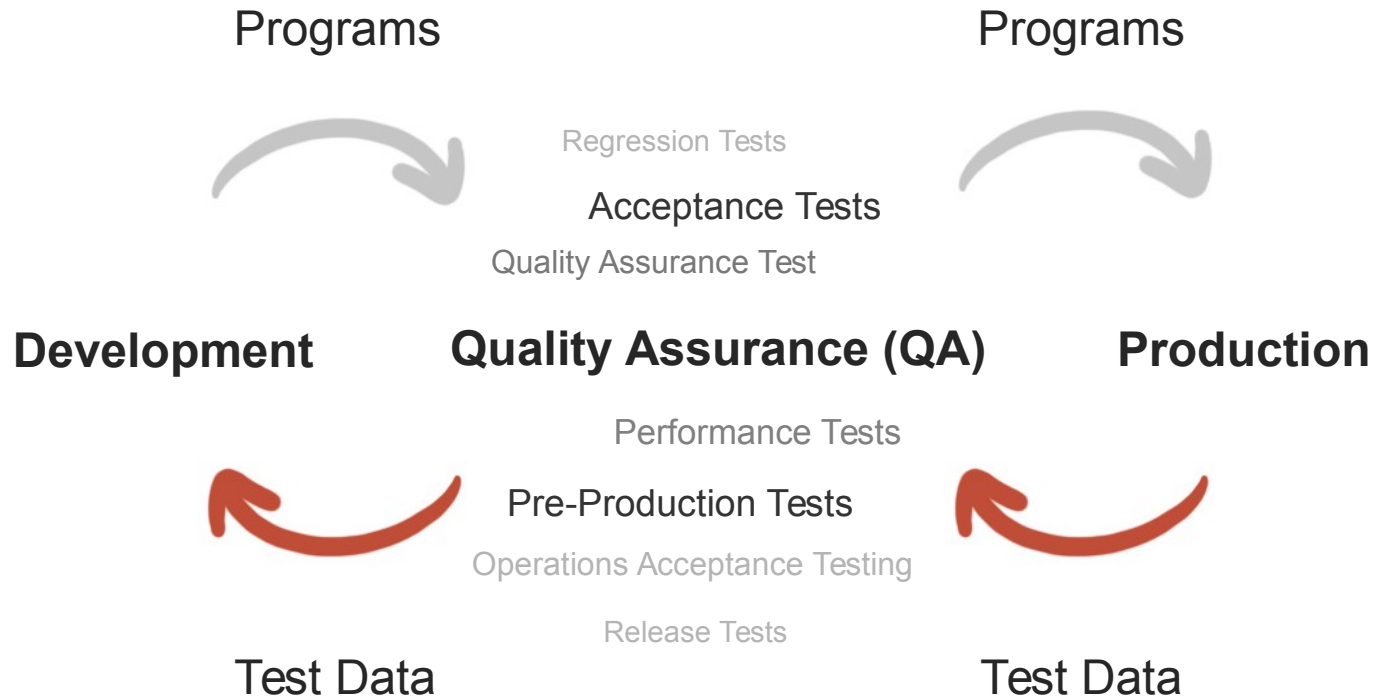
What does BCV5 do?

WHAT DOES BCV5 DO?

BCV5 is a **fast copy program** for DB2 data.
It allows to copy between DB2 subsystems or within one.



WHAT DOES BCV5 DO?



BCV5 saves up to 90%
in 3 key areas:

BCV5 FAST AND EFFICIENT DB2 DATA MIGRATIONS

BCV5 SAVES UP TO 90% IN 3 KEY AREAS:

1. Elapsed Time



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2. CPU Consumption



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3. Manual Efforts

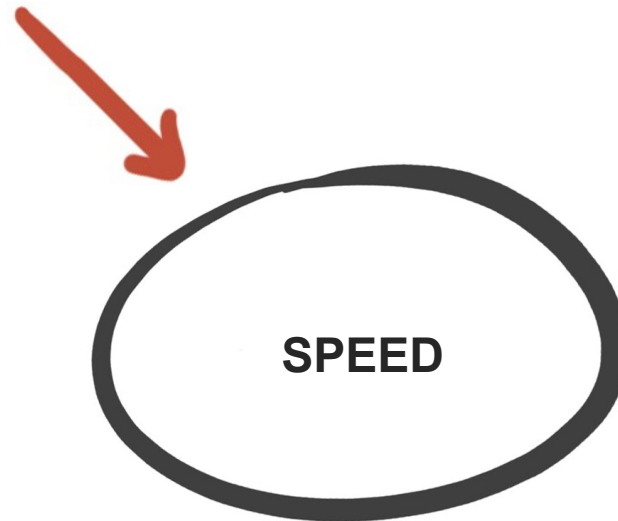


BCV5 FAST AND EFFICIENT DB2 DATA MIGRATIONS

BCV5 SAVES UP TO 90% IN 3 KEY AREAS:

ELAPSED TIME | CPU CONSUMPTION | MANUAL EFFORTS

Dataset versus Rows



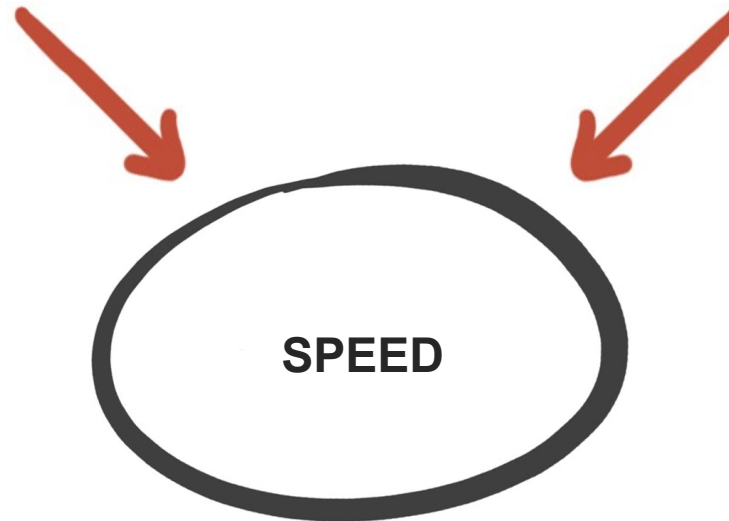
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Copying in Parallel



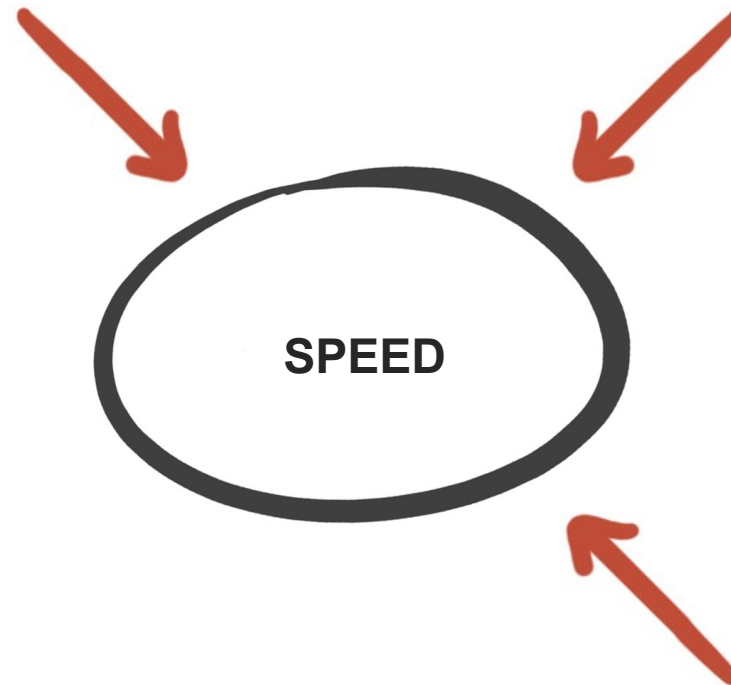
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No Rebuild Indexes

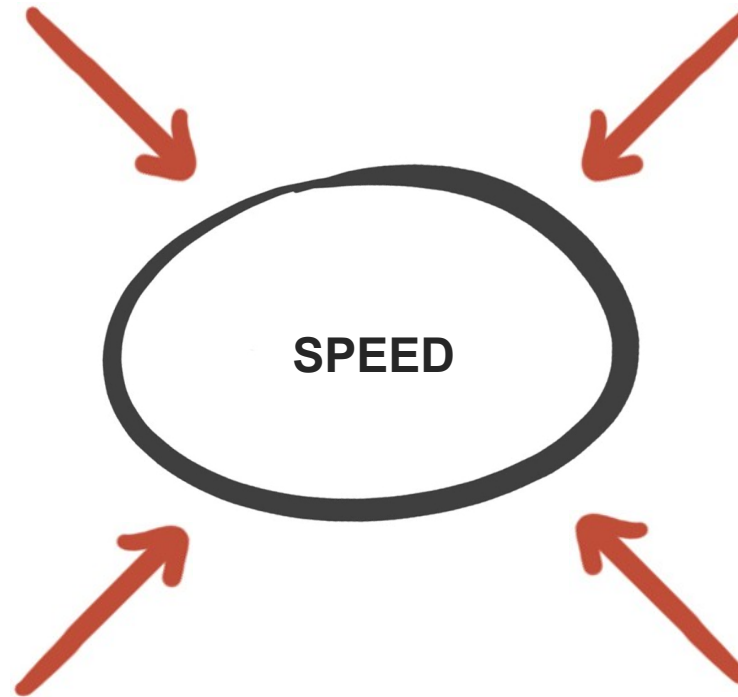
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No Runstats

No Rebuild Indexes



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ELAPSED TIME | CPU CONSUMPTION | MANUAL EFFORTS

Customer	Amount of Data	Number of Objects	Unload/Load Time	BCV5 Time
Insurance	18 GB	150	8 hours	3 min.
Bank Service Center	1,3 TB	850	24 hours	110 min.
Public Service Center	1,6 TB	1250	30 hours	180 min.
Automotive Industry	2,2 TB	1100	33 hours	178 min.
Banking	1,4 TB	1300	19 hours	159 min.

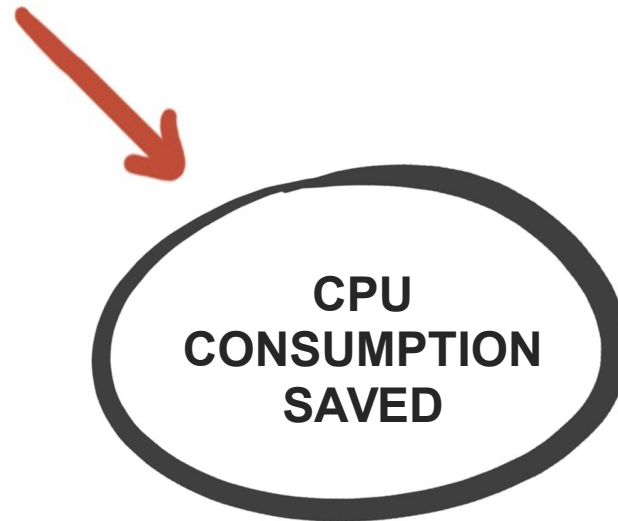


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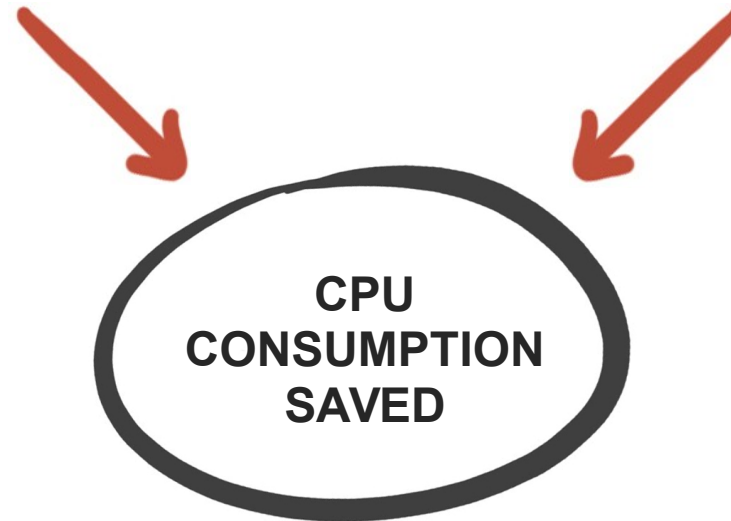
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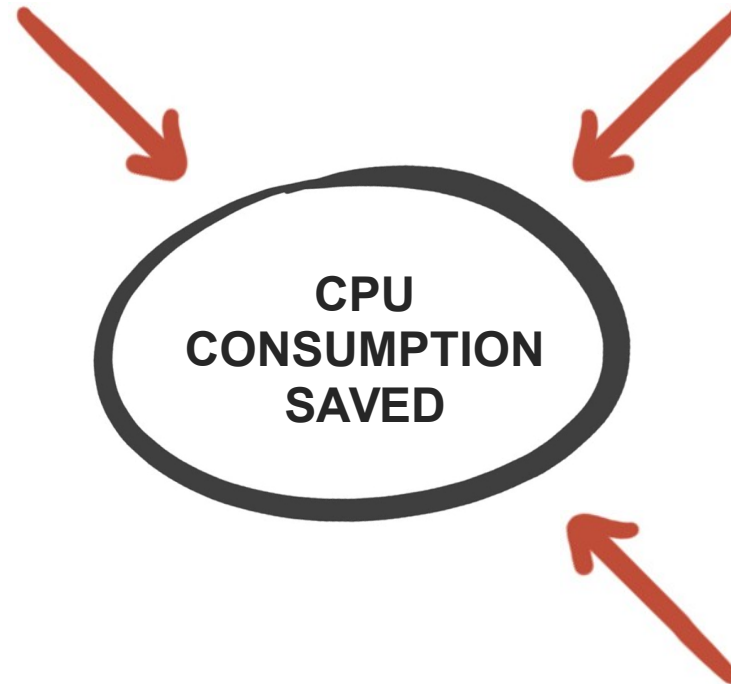
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DB2 not Involved

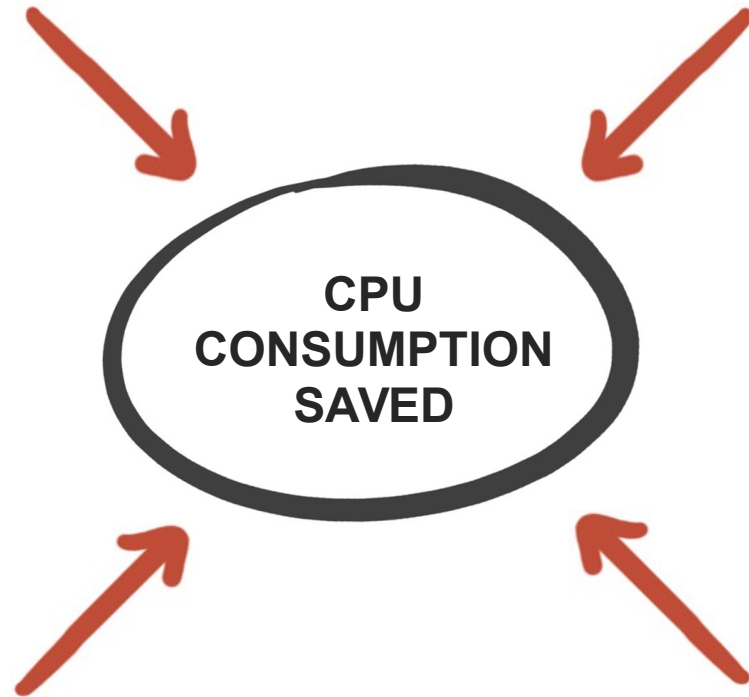
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Runstats Avoided

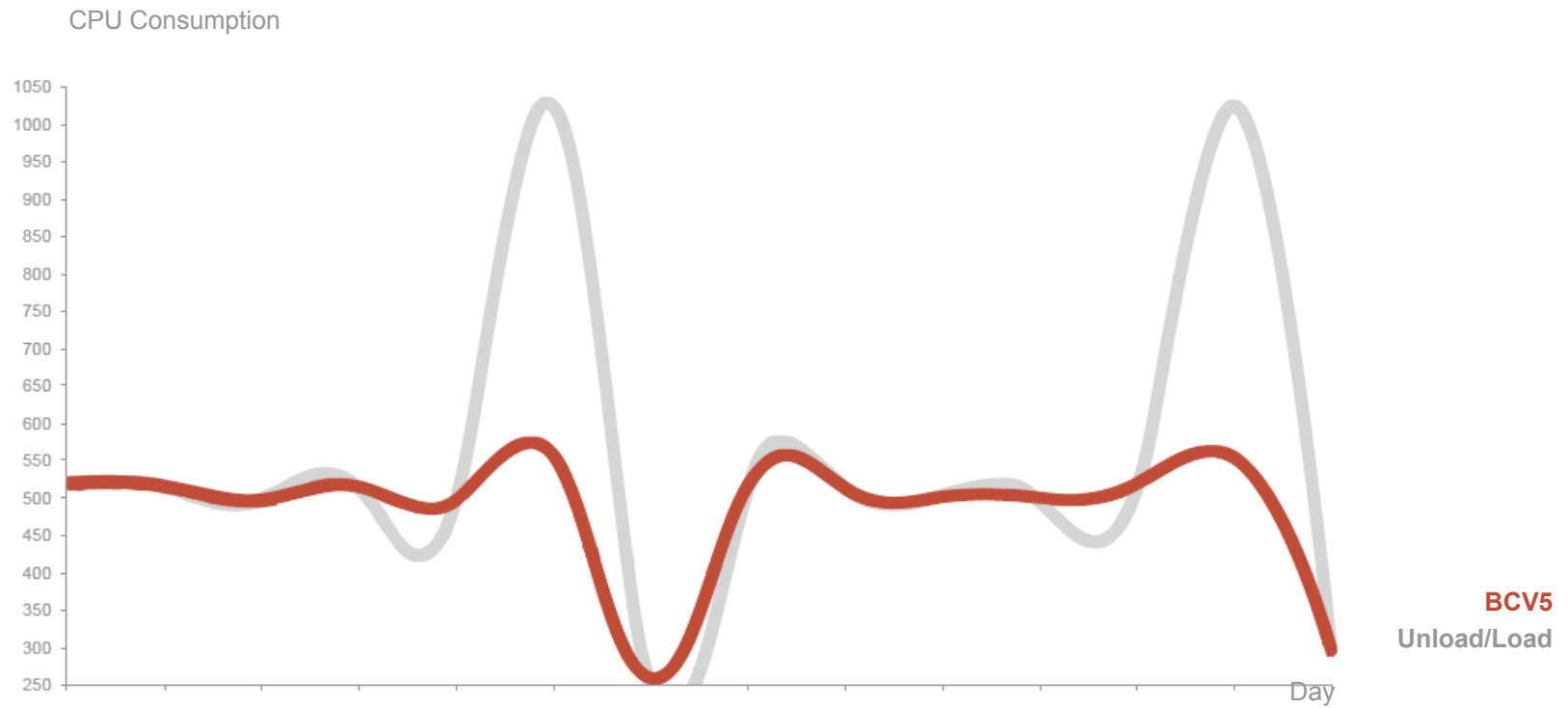
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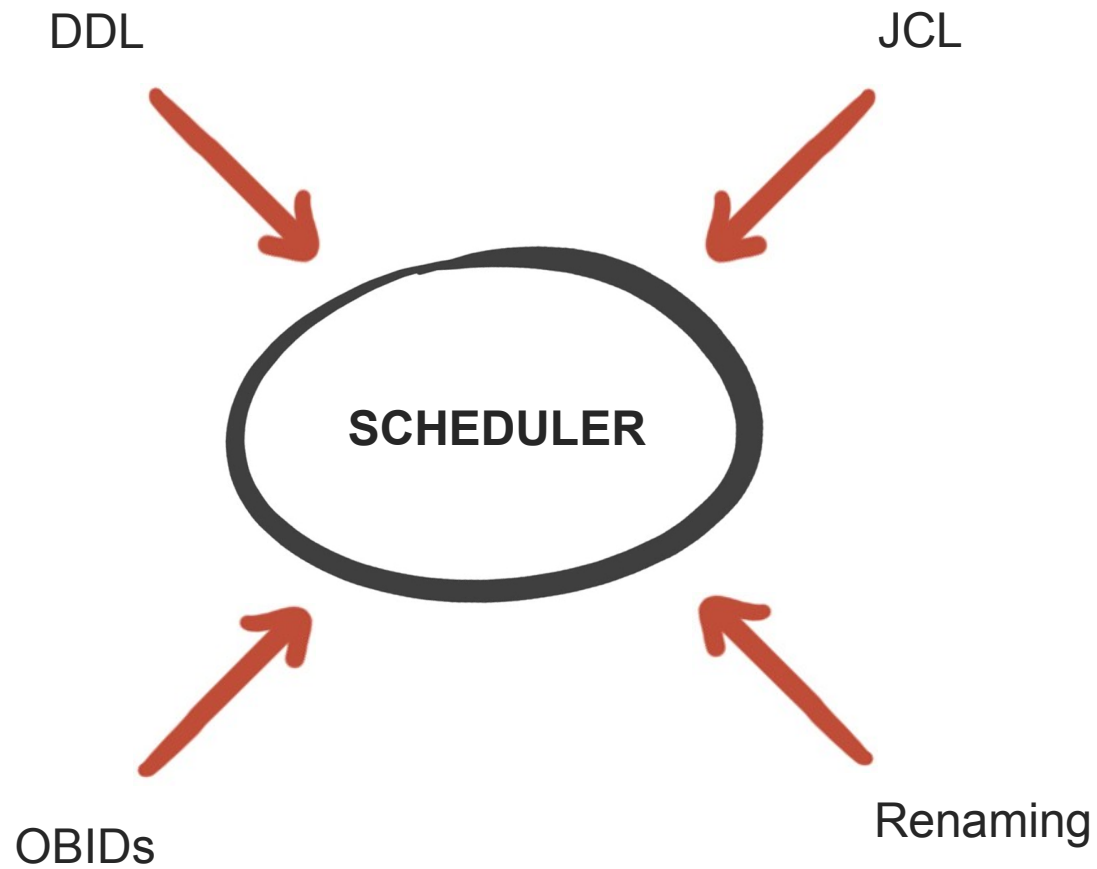
ELAPSED TIME | **CPU CONSUMPTION** | MANUAL EFFORTS



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ELAPSED TIME | CPU CONSUMPTION | **MANUAL EFFORTS**

- **No manual intervention**
- No weekend work
- Experts not required
- No lead time: delivery on demand
- Better service, less expenditure

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How does BCV5 streamline your copy processes?



BCV5 uses a rule-based approach for **selecting, renaming, and excluding** objects from the process.

Type	Name
Database	DHRA%
Database	DHRB%

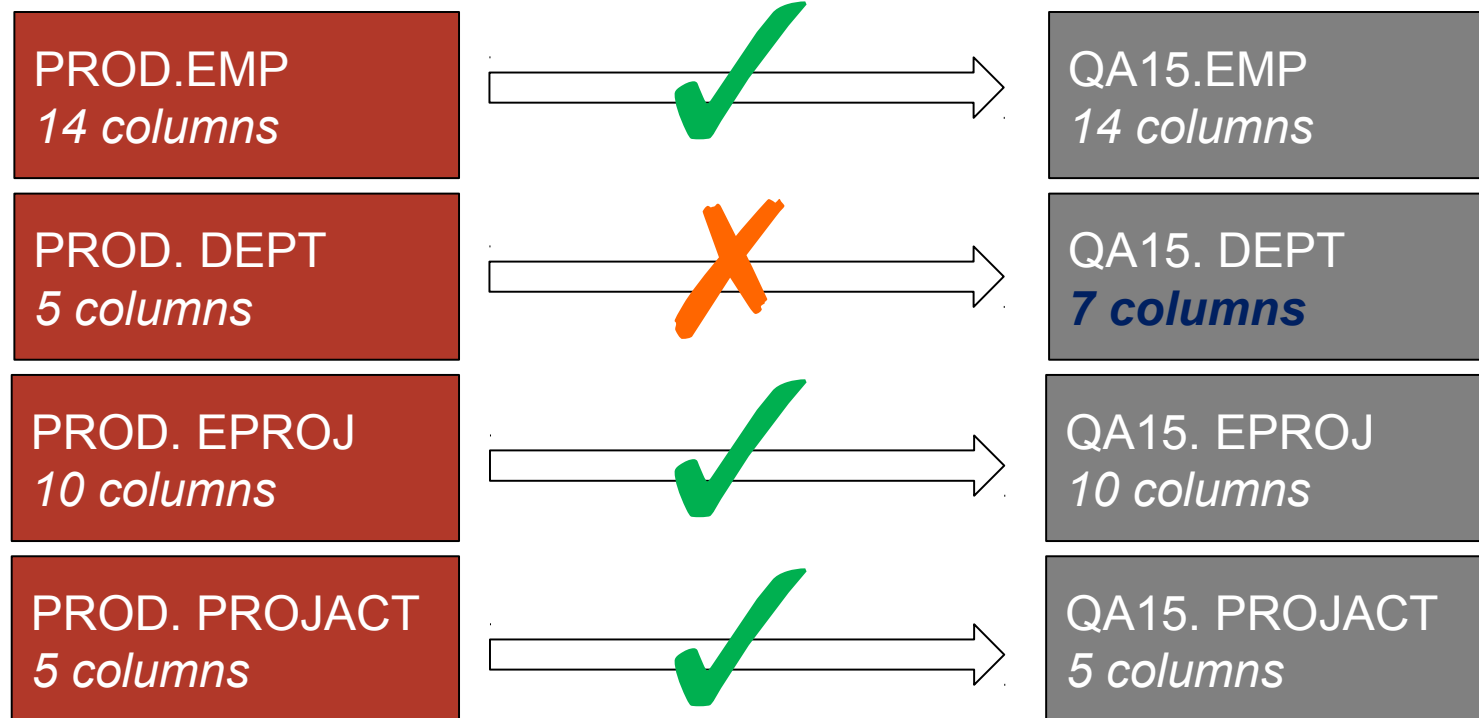


Type	From	To
SQLID	%	DB2ADM
Database name	%	C%
Table creator	%	QA15
Bufferpool	BP16K%	BP16K1

Selected 8 databases
 Selected 1977 tablespaces
 Selected 2438 tables
 Selected 3702 indexes
 [...]

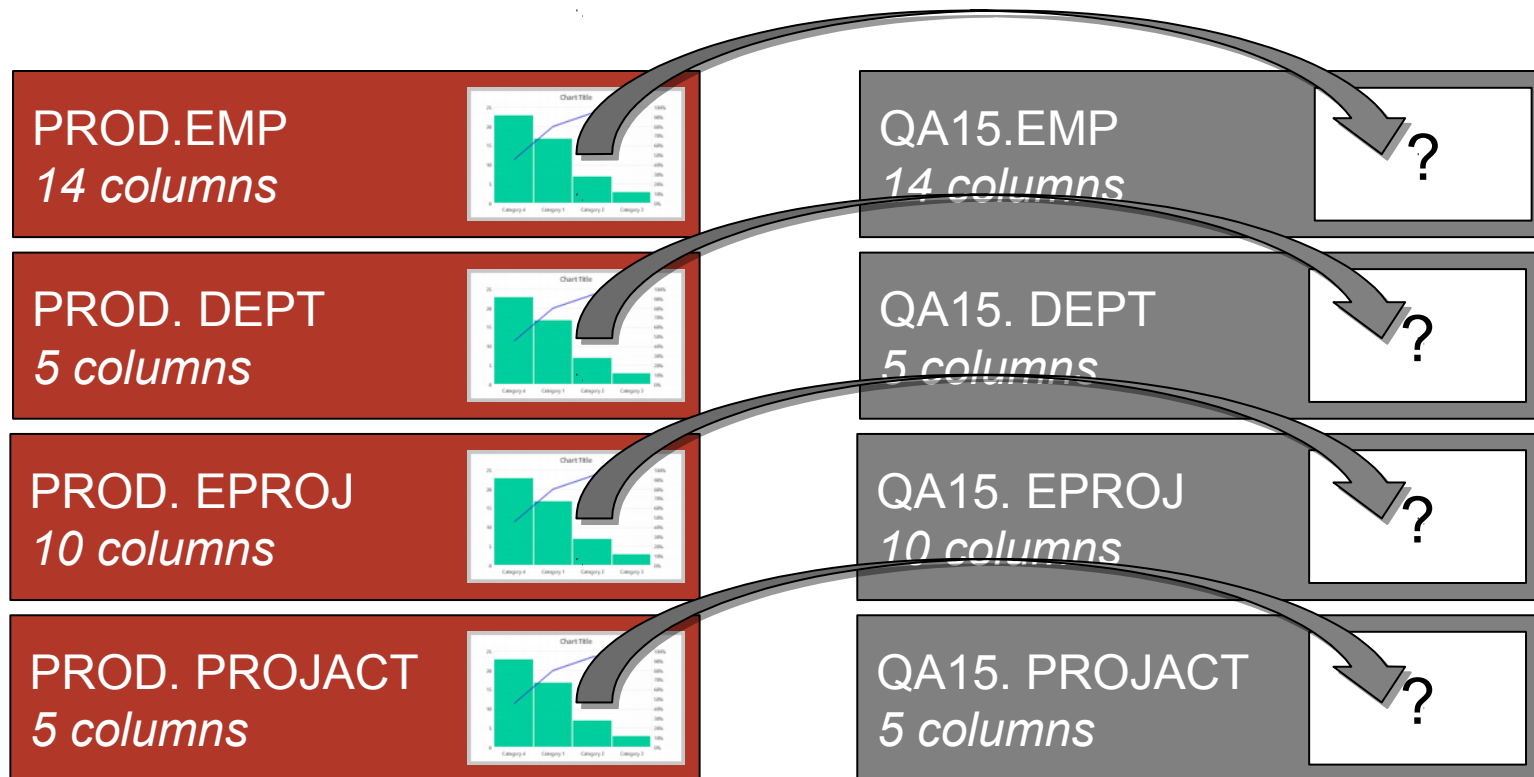
```
SET CURRENT SQLID = 'DB2ADM';
CREATE DATABASE "CHRB0001";
[...]
```

BCV5 performs an automatic **compatibility check** for existing target objects. Incompatible objects can be dropped and recreated, skipped, or copied using Unload/Load

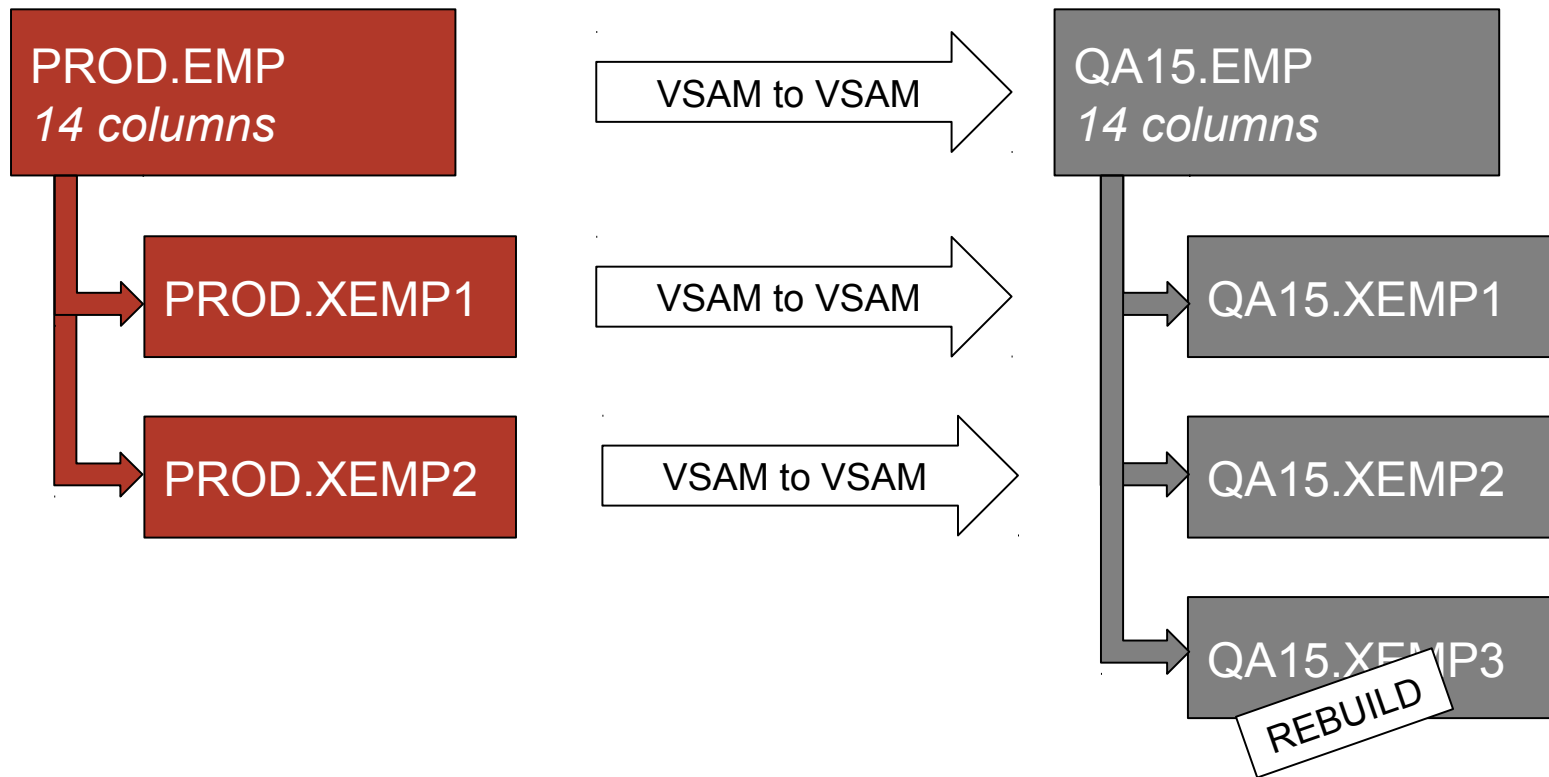


BCV5 copies **catalog statistics realtime statistics.**

- Important for the DB2 optimizer
- Also important for utilities that perform a sort

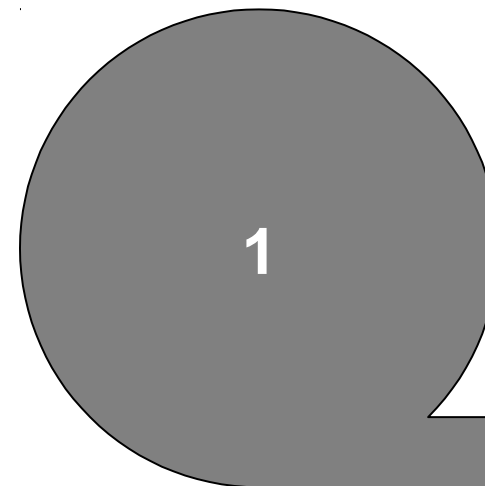
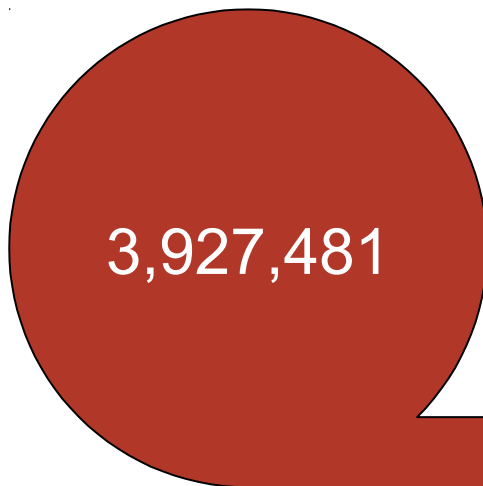


BCV5 detects and rebuilds **extra target indexes**.

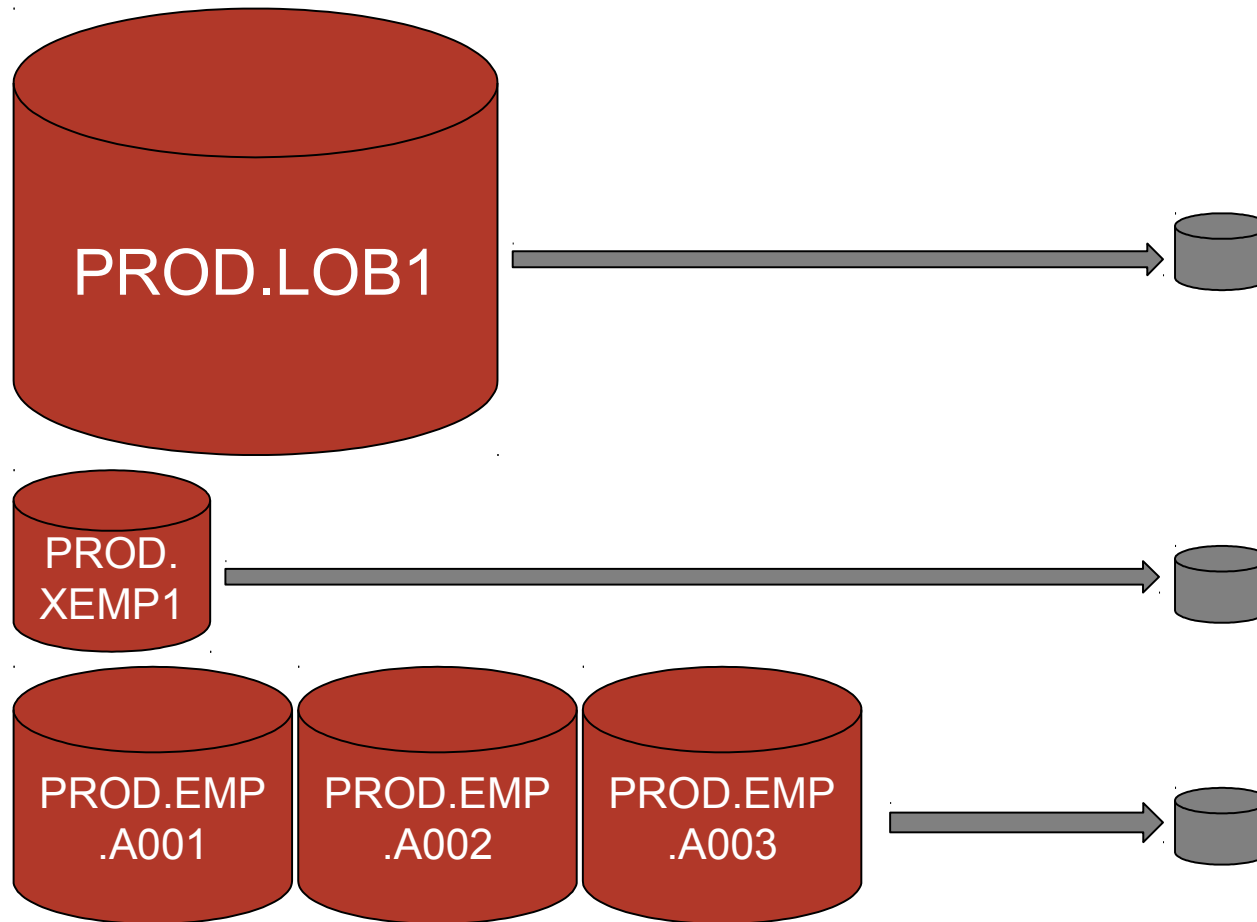


BCV5 automatically adjusts **identity columns** and **sequence objects**, including:

- Explicit sequence objects (user defined)
- Implicit sequence objects for XML DOCID columns



BCV5 **pre-allocates** the required space on the target volumes and adds more **pieces or partitions** if required



Among other things, BCV5 also:

- Checks for duplicate names
- Detects if REORG is required
- Clears restricted states in the target
- Provides ability to restart after failure
- Copies SYSINDEXCLEANUP entries
- Injects XML string IDs into target catalog
- Adjusts version numbers in target catalog
- Detects other restricted states in the source
- Deletes migrated target data sets using HDELETE
- Recalls migrated source data sets for space estimation
- Rebinds target trigger packages after copying statistics
- Optionally creates new full image copies of target objects
- Confirms that objects are stopped and not only stop pending

Live Demo

Using the DB2 log to make consistent copies

Optional Components



Reduction and Masking (RM)

OPTIONAL COMPONENTS

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Remote Copy (RC)



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Remote Copy (RC)

Batch Interface (BI)



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Icebox (IB)

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BCV6

Economically reasonable?

You are keen to see what you
can accomplish with BCV5
in your installation?

BCV5 FAST AND EFFICIENT DB2 DATA MIGRATIONS
ECONOMICALLY REASONABLE

Order a free trial!



Order a free trial

and verify that you can save **90% Copy Time**

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90% CPU Consumption

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90% CPU Consumption

90% Manual Lead Time



Thank you
for your attention!

Your UBS Hainer Team



Learn more about BCV5 and our DB2 High-End Product Line at www.ubs-hainer.com or send an email to info@ubs-hainer.com

Technical Aspects of BCV5



TECHNICAL ASPECTS

WORKFLOW | COPY PROCESS | BCV6 OPERATION | ICEBOX

- **Work is organised in tasks**
- **Task Definition**
 - Select Source and Target DB2 (Prod/Test)
 - Select Objects / Select Rename Rule
 - Select Copy options (IC/TS, DROP/REUSE,...)
- **Tasks Administration – ISPF or Workstation**
- **Execute copy tasks at any time**

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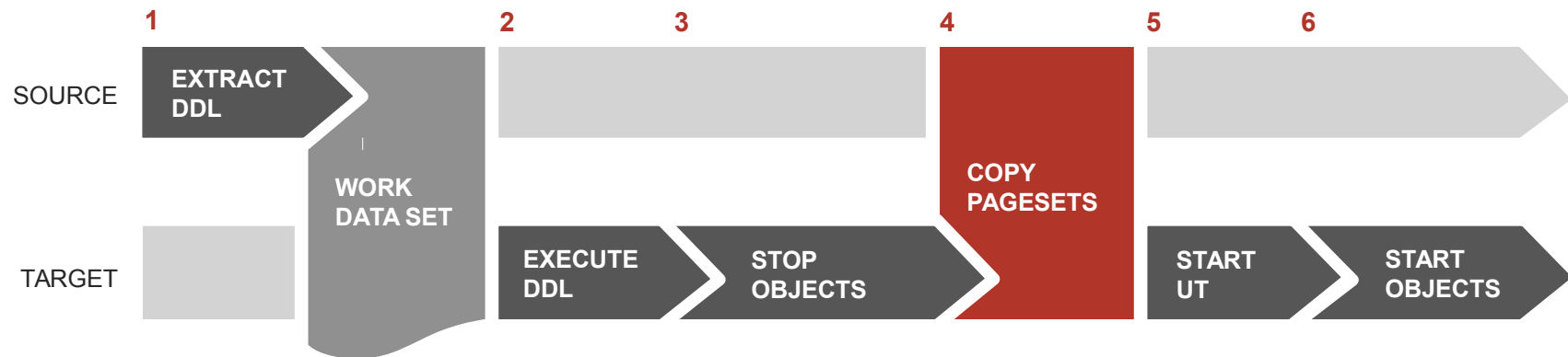
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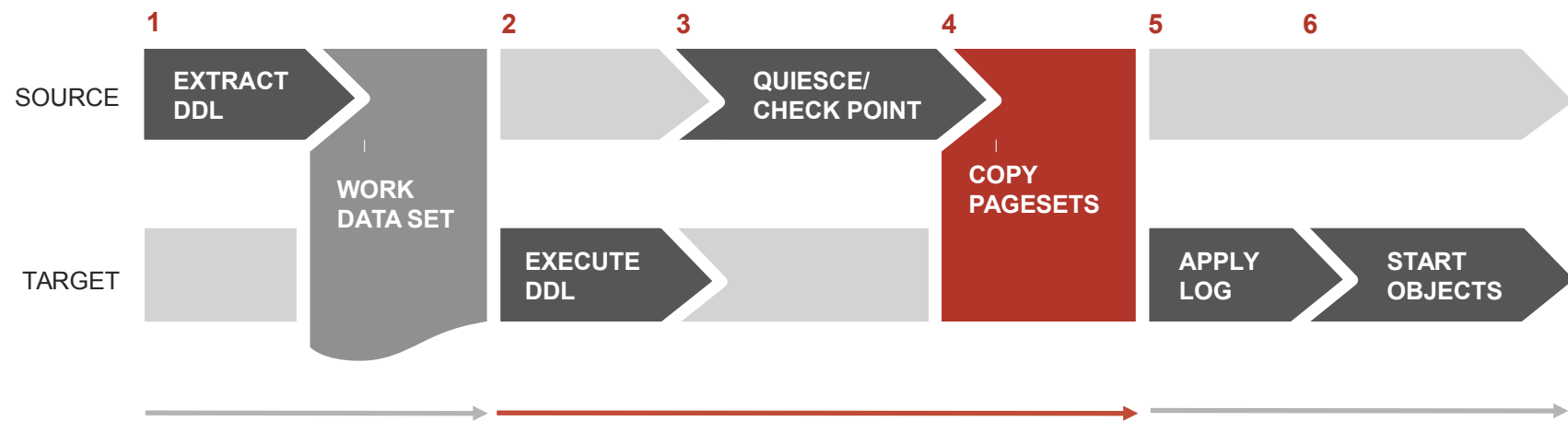
WORKFLOW | **COPY PROCESS** | BCV6 OPERATION | ICEBOX



BCV5 FAST AND EFFICIENT DB2 DATA MIGRATIONS

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WORKFLOW | COPY PROCESS | **BCV6 OPERATION** | ICEBOX



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WORKFLOW | COPY PROCESS | BCV6 OPERATION | **ICEBOX**

