

Start TSO RSPMAIN or via menu

1 GLOBAL COMMANDS

ACM	Display status of ACM
ALTER	Jump to RC/Update to alter an object
BIND	Access Plan Analyzer to bind plans
BINDPACK	Access Plan Analyzer to bind packages
BP	Access the Batch Processor facility
BROWSE	Jump to RC/Update to browse a table
COMPRESS	Jump to Data Compressor
COPY	Jump to RC/Update to copy a table
COPYAUTH	Jump to RC/Secure to copy authorizations
CPU	Display IDs for the current processors
CREATE	Jump to RC/Update to create an object
DB2C	Jump to the DB2 Command Processor
DETECTOR	Jump to DETECTOR
DROP	Jump to RC/Update to drop an object
EDIT	Jump to RC/Update to edit a table
FBROWSE	Jump to RC/Update to browse a table
FEDIT	Jump to RC/Update to edit a table
FILES	List allocated files via Allocation manager
FIXES	List fixes applied to this release of CA/DB2 prod's
FREEPACK	Access Plan Analyzer to free packages
FREEPLAN	Access Plan Analyzer to free plans
GLBLDEF	Access Global Defaults Administration
GRANT	Jump to RC/Secure for GRANT services
ISQL	Jump to the Interactive SQL processor
IV	Jump to the Install Verification Program facility
LISTDB2	Jump to DETECTOR DB2 SSID display
LISTTHD	JUMP to DETECTOR Active Threads display
MIGRATOR	Jump to RC/Migrator
MOVE	Jump to Dataset Facility to move DB2 datasets
PASSWORD	Display Passwords and their expiration date
PCATU	Jump to the Catalog Update Facility
PDA	Jump to Database Analyzer
PDISP	Jump to the Page Display Facility
PDN	Jump to Data Navigator
PDT	Jump to DETECTOR
PGF	Jump to the Governor Facility
PIR	Jump to the InfoRefiner for DB2
PKG	Jump to Package/It
PLA	Jump to Log Analyzer
POA	Jump to Index Expert
PPA	Jump to Plan Analyzer
PPX	Jump to Partition Expert
PQA	Jump to Query Analyzer
PQO	Jump to Object Administrator
PQT	Jump to Object Tracker
PRA	Jump to Recovery Analyzer
PRI	Jump to RI Manager
PSA	Jump to the Subsystem Analyzer

PSTATS	Jump to view PDA statistics
PTT	Jump to the Thread Terminator
PUT	Jump to Utilities
PXF	Jump to the Execution Facility
QE	Access Plan Analyzer to explain plans
Qmigrate	Access RC/Migrator to perform Quick Migrations
QQF	Jump to Compile/QQF
Query	Jump to RC/Query
RCM	Jump to RC/Migrator
RCQ	Jump to RC/Query
RCS	Jump to RC/Secure
RCU	Jump to RC/Update
REBIND	Access Plan Analyzer to rebind plans
REBINDPACK	Access Plan Analyzer to rebind packages
REVOKE	Jump to RC/Secure for REVOKE services
SECure	Jump to RC/Secure
SET	Set current SQLID
SHOWDEFS	Show Active Global Defaults for Current User and SSID
SHOWSSID	Show Current SSID
SQLID	Display current SQLID
SQLTRACE	Jump to DETECTOR SQLTRACE facility
SSC	Jump to Space Calculator
STATUS	Display status of parmlib processing
TEMPLATE	Jump to RC/Update to template an object
UPDate	Jump to RC/Update
UTIL	Jump to Utility Manager

2 SCROLLABLE PANEL SPECIFIC COMMANDS

EXclude	Exclude a column from a scrollable list
SHow	Show a previously excluded column
Find	Find a character string in scrollable data
RFind	Repeat the last find command
FReeze	Freeze a column in a scrollable list
UNfreeze	Release a previously frozen column
MEIt	Release all previously frozen columns
ScrollB	Set the left/right scrolling mode to byte scrolling
ScrollC	Set the left/right scrolling mode to column scrolling
SOrt	Sort a scrollable list
QPrint	Print the current report
PPrint	Print the current screen
QFILE	Write the current report to a file
PFILE	Write the current screen to a file

3 PRODUCT PANEL SPECIFIC COMMANDS

BR	Invoke batch reporting facility
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VLVL	Set view level for object dependency reports
Apply Def	Apply user defaults to the tablespace definition
Compare	Display original & current definitions of an object
Header	Switch the display of the panel header on or off
PrimeKey	Display the Primary Key column information panel
BP32K	Change the default buffer pool to BP32K
BP4K	Change the default buffer pool to BP4K

3.1 RC/Query commands

PROFile	Display profile panel
TUtorial	Enter RC/Query tutorial
ACMON	Enable Alternate Catalog Mapping
ACMOFF	Disable Alternate Catalog Mapping

3.2 RC/Migrator commands

PROFile	Display RC/Migrator Profile Panel
DEFaults	Display DB2 object creation defaults
INFO	Display RC/Migrator author Info
APPLYicl	Import an ICL Dataset to this subsystem
IMPICL	Import an ICL Dataset to this subsystem

3.3 RC/Update commands

DEFaults	Display DB2 object creation defaults
PDSunld	Unload subsys info to a PDS for use by RC/Alter
PROFile	Display the RC/Update profile panel

3.4 DB Analyzer commands

ESTATS	Display last online statistics collection
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Internal PDA Tables:		vvr=0206
RACA_CONN_vvrr	Action/Collection Connection	
RACN_CONN_vvrr	Connection Table	
RACP_PROCD_vvrr	Collection Procedure Detail	
RACR_PROC_vvrr	Collection Report Procedure	

3.5 Recovery Analyzer commands

MAIN	Return to the Recovery Analyzer Main Menu
EXIT	EXIT the Recovery Analyzer product
CANcel	Cancel current function, return to previous screen
PROFile	Display Recovery Analyzer Profile Panel

3.6 Plan Analyzer commands

ACMOFF	Disable Alternate Catalog Mapping
ACMON	Enable Alternate Catalog Mapping
ADDPACK	Display Plan Analyzer BIND PACKAGE options
ADDPLAN	Display Plan Analyzer BIND PLAN options panel

CANCEL	Cancel current function, return to previous screen
EXIT	EXIT the Plan Analyzer product
INFO	Display Plan Analyzer author Info
MAIN	Return to the Plan Analyzer Main Menu
MODE	Change Plan Analyzer Batch Processor Mode
PROFILE	Display Plan Analyzer Profile Panel
VSAMON	Enable Plan Analyzer VSAM Option
VSAMOFF	Disable Plan Analyzer VSAM Option

4 PRODUCT SPECIFIC PRIMARY LINE COMMANDS

4.1 RC/QUERY

Query Options:

T - Table	SG - Storage Grp	P - Plan
V - View	DB - Data Base	CL - Collection
I - Index	TS - Table Space	PK - Package
C - Column	BP - Buffer Pool	DR - DBRM
S - Synonym		
A - Alias	U - User	R - Routines
RI - Referential Integrity	SY - System	SC - Schema
	VC - VSAM Catalog	TR - Triggers

Query List: **D**=Detail, **L**=List, **T**=Table, **P**=Plan, **PK**=Package, **V**=View, **I**=Index, **TS**=Tablespace, **S**=Synonym, **A**=Alias, **C**=Column, **UC**=Unique Column, **PA**=Plan Auth, **KA**=Package Auth, **DS**=Status, **RI**=Referential Integrity, **O**=Object Dependency, **U**=User, **UA**=User Auth, **UL**=User List, **DI**=Drop Impact, **LC**=LISTCAT, **TR**=Table Trigg, **DDL**=Create DDL Stmt, **LR**=Table-LOB-Relation

General Line Commands:

COUNT	Display number of table rows
DDL	Create DDL for an object
DELETE	Jump to ISQL to delete from a table or view
DISPLAY	Display a database and/or tablespace/indexspace status
DISPLKS	Display DB/TS/IXSpace with LOCKS
DISPLPL	Display DB/TS/IXSpace with LPL
DISPUSE	Display DB/TS/IXSpace with USE
FSTART	Start a DB and/or TS/IXSpace
FSTOP	Stop a DB and/or TS/IXSpace
INSERT	Jump to ISQL to insert into a table or view
LGRANT	Grant privileges to users
LOAD	Create JCL for LOAD Utility
LREVOKE	Revoke privileges from users
SELECT	Jump to ISQL to select from a table or view
START	Jump to DB2C to start a DB and/or TS/IS

STARO	Jump to DB2C to start a DB/TS/IS in READ ONLY status
STAUT	Jump to DB2C to start a DB/TS/IXSpace in UTILITY status
STAFO	Jump to DB2C to start a DB/TS/IXSpace with ACCESS FORCE
STOP	Jump to DB2C to stop a DB and/or TS/IXSpace
UPDATE	Jump to ISQL to update a table or view
UNLOAD	Create JCL for the FAST UNLOAD utility

Licensed Line Commands:

ALTER	Jump to RC/Update to alter an object
BROWSE	Jump to RC/Update to browse a table
COPYD	Jump to RC/Update to copy a table
COPYAUTH	Jump to RC/Secure to copy authorization
CREATE	Jump to RC/Update to create an object
DROP	Jump to RC/Update to drop an object
EDIT	Jump to RC/Update to edit a table
FBROWSE	Jump to RC/Update to browse a table
FEDIT	Jump to RC/Update to edit a table
GRANT	Jump to RC/Secure for GRANT services
QMIGRATE	Jump to RC/Migrator to perform Quick Mi
REVOKE	Jump to RC/Secure for REVOKE services
TEMPLATE	Jump to RC/Update to template an object
LISTCAT	IDCAMS Listcat of tablespace/indexspace
EX	Execute Clist or REXX Exec
TESTEX1	SAMPLE REXX EXEC

4.2 RC/MIGRATOR

4.2.1 Strategy Line Commands:

A	Perform Analysis upon existing strategy.
C	Create new strategy. Only valid on the first row.
D	Delete an existing strategy.
G	Perform Group Migration Analysis. (Only valid if TYPE = M)
I	Perform ICL analysis upon an existing strategy. (Not valid if TYPE = M)
L	Toggle dataset LIST mode for this specific strategy.
M	Perform a Move analysis on this strategy. (Migration type only)
T	Template an existing strategy to create a new one.
U	Update an existing strategy.
X	Enter eXecution display with specified strategy.
Ü	List comments tagged to all RC/M managed analysis output.

4.2.2 Output Dataset Line Commands:

A	Analyze the strategy with the same options used for this dataset. (Not Applicable to ICL datasets.)
B	Browse the named dataset.
C	Submit the named dataset to the Syntax Checker.

D	Delete tie between analysis dataset and strategy. (Doesn't delete PDS.)
E	Edit the named dataset.
G	View the Global Changes associated with the dataset.
M	Perform a Move analysis using previous move analysis options.
O	View analysis Options associated with analysis row.
P	Protect analysis row from explicit or implicit delete requests.
R	Submit the associated Recovery dataset for execution.
S	Submit the named dataset for Batch Processor execution.
U	Update the QUICK MIGRATION type strategy. (Q type strategies only)
X	Enter eXecution display with this dataset.
Z	Submit the associated recovery analysis output DDL to the syntax checker.
Ü	List the comment tagged to the RC/M-managed analysis output.

4.2.3 Strategy Types:

M	Migration strategy.
A	Alteration strategy.
C	Compare strategy.
Q	Quick Migration output header

4.2.4 BP Execution Status:

XI	Indicates that this record was generated by a job that is currently executing, and connected to the DB2 system whose BP log is being viewed
SC	Indicates that the job that generated this record is currently executing, but is now connected and logging to a different DB2 system.
NC	Indicates that the job that generated this record completed normally
NI	Indicates that the job completed with errors.
FC	Indicates Forced Completion. This occurs when the Batch Processor encounters a .EXIT command which specifies a zero return code.
FI	Indicates that the Batch Processor encountered a .EXIT command with a non-zero return code.
AB	Indicates that the job that generated this record abended before it could update the log status to 'NI'. These items actually show up on the log with an 'XI' status.

4.2.5 Batch Processor Log Record Types (Column TS):

S	Batch Processor generated sync point record. Sync records are use by the Batch Processor during restart processing.
M	Batch Processor generated message record. These records are generated when the Batch Processor encounters the LOG parameter on a .MSG command.
A	Analysis record generated by the RC/Migrator analysis step.

4.3 RC/UPDATE

Options:	A - Alter	C - Create
	D - Drop	T - Template
	R - Drop Recovery	
Objects:	SG - Storage Group	T - Table
	DB - Data Base	I - Index
	TS - Table Space	V - View
	RI - Referential Integrity	S - Synonym
Table Options:	B - Browse	FB - Fast Browse
	E - Edit	FE - Fast Edit
	CO - Copy	DC - Data Compare

Command	Syntax
CANCEL	(CAN)cel
CAPS	CAPS ON <col name> or CAPS OFF <col name>
CHANGE	(C)HANGE <old value> <new value> <column name>
CHANGE ALL	(C)HANGE <old value> <new value> <column name> ALL
COMMA	COMMA ON or COMMA OFF
END	END
EXPLODE	EXPLODE, place cursor on column to explode
FIND	(F)IND <value> <column name>
FREEZE	FREEZE <column name>
HEX	HEX
LCASE	LCASE <column name>
MATCHcase	Controls case sensitivity of object name fields
MELT	MELT
PDSunld	Unload subsystem information for use by RC/Alter
PFILE	(PF)ILE
PPRINT	(PP)RINT
QFILE	(QF)ILE
QPRINT	(QP)RINT
RCHANGE	RCHANGE
RESET	(RES)Et
RFIND	RFIND
SAVE	SAVE
SET	SET <column name> = new-value [where...]
SHOW	(S)HOW
SORT	(SO)RT <col name>,A or (SO)RT <col name>,D
SQL	SQL
TRACE	TRACE ON or TRACE OFF
TYPE	IBM=Display DB2 data type USER=Display UDT type of each column OFF=Turn off a display of the data type
UCASE	UCASE <column name>
UNFREEZE	UNFREEZE <column name>

Tabelle 1: Table EDIT und BROWSE Commands

4.4 Database Analyzer

4.4.1 Extract Prodedures

<u>Line Cmds:</u>	E(xplode), U(pdate), S(ubmit), D(elete), A(ction), L(ist), C(opy)
<u>Build Screen:</u>	
Action Procedure Ties:	(E)xplode, (S)elect, (O)bject, (C)reate
Extract Options:	Auto-Catalog Update: (N)one, (U)pdate
	Column Statistics: (I)ndex, (A)ll, or (N)one
	Job Generation Parms: (N)o, (U)pdate
Job Generation Parms:	
	Number of Jobs: 1 to 3599, or blank
	Number of Steps per Job: 1 to 200, or blank
	Jobname Mask: 1-7 characters
	Fill Model: default: MJUTLFIL
	One Job per Object:: Y, or N, or blank
	One Utility per Step: Y, or N, or blank
	One Member per Job: Y, or N, or blank

4.4.2 Action Procedures:

<u>Line Cmds:</u>	E(xplode), U(pdate), D(elete), L(ist Extract), C(opy)
<u>Action Codes:</u>	
AM	IDCAMS Access Method Services
CD	Check Data
CK	Check Index
CP	DB2 Command Processor
IC	Image Copy
MC	MergeCopy
Mondieu	Modify
MP	Msg Procedure (Plat.)
PR	PDA Reports (Plat.)
PS	PDA Statistics (Plat.)
DU	CA Dynamic Tools
QU	Quiesce
RC	Recover
RO	Reorg
RR	Report Recovery
RS	Runstats
RT	Report Tablespace
ST	Stospace
UC	Update Catalog (Plat.)
US	User Application

4.4.3 Report Procedures:

<u>Line Cmds:</u>	E(xplode), S(ubmit), D(elete), U(pdate), L(ist), C(opy)
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4.4.4 Execution Procedures:

Line Cmds: E(xplode), U(pdate), D(elete), S(ubmit), C(opy)

4.5 Recovery Analyzer

Strategy Line Cmds:

A	Perform a Recovery Analysis on this Strategy
B	Add/Change/Delete Batch Job Information
C	Copy Strategy to another DB2 Subsystem
C	Create a new Strategy
D	Delete a Strategy and all of its versions
L	List all datasets for this strategy
Q	Quiesce all tablespaces in the strategy
U	Update a Strategy definition

Strategy Output Line Cmds:

B	Browse the input records for an analysis
D	Delete a version
E	Edit the analysis output dataset
S	Submit the analysis JCL for execution

Restricted Objects List Line Cmds:

CHECK	Select this object for a check DB
IMCOPY	Select this object for a image copy
RECOVER	Select this object for a recover
REPCHECK	Select this object for a repair check pending flag
REPCOPY	Select this object for a repair copy pending flag
REPRECV	Select this object for a repair rcvr pending flag
STARTRO	Select this object for a start read only (Immediate)
STARTRW	Select this object for a start read/write (Immediate)
STARTRWF	Select this object for a start access force (Immed.)
STARTUT	Select this object for a start utility only (Immediate)
STOP	Select this object for a stop (Immediate)

4.6 Plan Analyzer

Strategy (Definition and Output) Line Cmds:

L	List all versions for this Strategy
U	Update a Strategy definition (Strategy changes saved)
B	Browse a Strategy definition
E	Perform an Enhanced Explain on this Strategy
D	Delete a Strategy and all of its versions
I	Display the input records for a version
O	Display all output for a version
R	Select output reports to be displayed for a version

5 PDA JCL and Models

5.1 Symbolic Variables

%ACEEGRP	RACF default group name
%COND#	Condition number
%CONDTEXT	Condition text
%CONDTRGR	Condition trigger
%CONDTYPE	Condition type (UNCOND, AND, OR)
%CREATOR	object's creator
%DATE	Current Date
%DATECENT	Current Date incl. Century YYYYMMDD
%DATECLTS	Latest Collection timestamp
%DATEFMTD	Current Date formatted
%DATEJUL	Current Julian Date YYYYDDD
%DB2REL	DB2 Release <i>vr</i>
%DBID	Internal Database ID
%DBNAME	database name
%DDNAME	Current DD-Name for a DD-Card
%DEST	Relates DB to user defined destination
%DSNUMLIT	DSNUM Literal if required
%INCR	incremental variable 001-999
%IXNAME	index name
%IXSPACE	indexspace name
%IXSUPPD	Index Reorg suppressed
%IXTYPE	Index Type 1 or 2
%KEEPD	KEEPDICTIONARY
%LBLx	LABEL Position Parameter
%LOG	LOG {YES NO}
%LOGLBL	LOG Label if required
%MODLINCR	Model Increment
%NUMTAB	Number of Tables in Tablespace
%NUMNCI	Number of Non-Clustering Indexes in Tablespace
%NUMCI	Number of Clustering Indexes in Tablespace
%OBID	Internal Object ID
%OBJECT	Name of Index or Tablespace
%OBJTYPE	INDEX or TABLESPACE if required
%PART	Partition Number

%PARTP	Contains %PART and %PARTLIT
%PARTLBL	PART label
%PARTLIT	PART literal if required
%PARTNO	partition number
%PARTTOT	Total number of partitions
%PGSIZE	Page Size
%PKGNAME	Package Name
%PKGS	List of Unique Packages
%PLANS	List of Unique Plan Names
%PLANAME	Plan Name
%PREVDB	Previous Database Name processed
%PREVTS	Previous Tablespace Name processed
%PREVSTEP	Previous Step Name
%PRMIXCPY	keyword GENERATE_IX_COPY
%PROCNAME	Extract Procedure Name
%PSID	Internal PSID of Tablespace
%RECOVER	RECOVER or REBUILD keyword if required
%REFERx	REFER subparm of VOLUME Keyword
%REORGP	estimated REORG pages for TS's/IX's
%REORGT	estimated REORG pages for TS's
%ROHIALLC	allocated pages
%ROHIUSED	used pages
%ROSORT	Cylinders required for SYSREC, SYSUT1 etc
%ROSYSREC	Cylinders required for SYSREC, SYSUT1 etc
%ROSYSULD	Cylinders required for SYSREC, SYSUT1 etc
%ROSYSUT1	Cylinders required for SYSREC, SYSUT1 etc
%ROSORTWK	Cylinders required for SYSREC, SYSUT1 etc
%SORTDATA	SORTDATA keyword if required
%SPACENM	tablespace or indexspace name
%STEPNAME	Unique JCL Job Step Name UTILnnnn
%STORNAME	Storage Group Name
%SYSID	DB2 subsystem ID
%SYSCPYx	Unique DD-Name, COPYAnnnn or COPYBnnnn
%SYSIXCPY	Based on SYSCOOPY.COPY[Y/N/]
%TBNAME	table name
%TIME	Current time
%TIMEFMTD	Current Time formatted
%TSNAME	Tablespace Name
%TSSET	tablespace set
%USERID	UserID submitting the job
%UTILCD	utility code
%UTILMD	utility model name
%VCAT	VCAT name for tablespace or indexspace
%CALC	Calculations
%DUNIT	Device Type Work Dataset
%FULL	FULL or INCREMENTAL Copy
%NEWCOPY	Control merging of an image copy
%SORTNUM	Represents no. of sort work (SORTWKnn) DS's for CHECK, LOAD, RECOVER, REORG
%SUBSTR	SUBSTR function
%UNIT	Device Type for SYSCOOPY Dataset
%WDATE	MJUTLMD MODIFY Delete Date

5.2 User Defined Variables (supplied)

%CALC	expression
%DUNIT	device type work datasets
%FULL	FULL {YES NO}
%NEWCOPY	MERGECOPY keyword
%SORTNUM	number of sort works
%UNIT	device type SYSCOOPY dataset
%WDATE	expiration date for MODIFY utility

5.3 Logic

Conditional	#IF <i>cond</i> <i>lines</i> #ELSEIF <i>cond</i> <i>lines</i> #ENDIF
Calculation	%CALCn(<i>expression</i>)
Substring	%SUBSTR(<i>pos,len,source</i>)

[TO BE CONTINUED]