northgate
INFORMATION SOLUTIONS

Reality
V10.0

TCL
Quick Reference Guide

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Chapter 1
About this Guide

Purpose

TCL is the Terminal Control Language, the primary interface between the user and a Reality system.

This guide gives quick access to a summary of each TCL command including its syntax, function, restrictions, parameters and options.

CAUTION   It is outside the scope of this guide to fully define each command in context. If in doubt, check the detailed description in the manual referenced.

TCL Commands on UNIX Only

The TANDEM utility is not currently supported on Windows. Hence, the TANDEM verb and ALLOW-TANDEM verb are only available on a UNIX host.

Comments

We welcome your comments on this guide - send them to Technical Publications at the address on the copyright page, or email techpubs@northgate-is.com.

Manual Reference Abbreviations

Each TCL command is described more fully in the main manual set. A reference to the full description is given at the end of each command summary. The reference indicates the Reality Reference Manual containing the full description, abbreviated as follows:

V1	*Volume 1: General*
V2	*Volume 2: Operation*
V3	*Volume 3: Administration*
ENG	*English Reference Manual*
Proc	*Proc Reference Manual*
ED	*EDITOR Reference Manual*
SE	*Screen Editor Reference*
D/B	*DataBasic Reference Manual*
GUP	*General Utilities and Printing*
SQL	*SQL for Reality - Connection and Catalog Configuration Guides*
PDM	*Printer Definition Maintenance Manual*

Use the index of the referencedme to find more detailed information.

Command Descriptions

For each command, details are given (where applicable) of:

- General Syntax
  Conventions are defined at the end of this chapter.

- Function and Restrictions
  Briefly describes the effect of executing the command and any restrictions in its use.

- Special Parameters
  Defines special parameters in general syntax. (Frequently-used parameters are defined below.)

- Options
  Describes options available with the command.

- Reference
  Reference to a complete description, if any.

Lower-case Commands

All commands can now be entered in lower-case letters. For clarity they are shown in upper-case throughout this document. Note that specific data (including file names) must appear in commands as it exists on the database.

Frequently-Used Parameters

The following definitions apply except where otherwise indicated.

account
Name of account if different from current account.

cataloged-program
The name of a DataBasic program cataloged via the **CATALOG** verb, which is also the item-id of the associated MD entry.

channel
A single letter (**A** to **Z**) identifying a 'channel' of one or more tape units. Assign channels via **ASSIGN** command. When one or more named channels are set up, each **T-** verb that shows *channel* as an optional parameter must specify a channel. If omitted, default channel (set up via **T-ATT** or **ASSIGN** commands without *channel* specified) is used.

data-sect
Name of data section if different from file name. It must follow the file name after a comma.

DICT
Specifies dictionary section of file.

despooler
Name of a despooler.

file
Name of a file.

file-modifier (English commands only)
Modifies how the file is accessed:

ONLY   suppress default output
TAPE   retrieve data from tape
WITHIN use sublist of items.

filespec
Defines the file that the command will operate on:

{**DICT**} {*/account/*}*file*{**,***data-sect* }

form-queue
Name of a spooler job queue.

format-spec (English commands only)
Output format modifiers, with associated text and
options as required, one or more of: **COL-HDR-SUPP**,
DBL-SPC, **DET-SUPP**, **FOOTING**, **GRAND-TOTAL**,
HEADING, **HDR-SUPP**, **ID-SUPP**, **LPTR**, **NOPAGE** or
SUPP.

index-name
Name of an index.

item-id/item-list
- One/more item-ids separated by spaces (each
  enclosed in single quotes for English verbs).
- A list supplied by an immediately-preceding **AND-
  ITEMS, AND-LISTS, BSELECT, ESEARCH,
  FORM-LIST**, **GET-LIST**, **NEW-GET-LIST**,
  NSELECT, OR-ITEMS, OR-LISTS, QSELECT,
  SEARCH, **SELECT**, **SELECT-INDEX**, **SSEARCH,
  SSELECT, XOR-ITEMS**, **XOR-LISTS** or **XSELECT**
  command.
- An * specifies all items (non-English verbs only).
- With English verbs, all items in file are implied if no
  item-list supplied (unless otherwise indicated).

job-file
Name of the job file containing print data. In Spooler commands option **F** indicates that the job file is included explicitly in the command, option **U** indicates that the job file for each print job is determined from the PRINT.JOB.CONTROL file item. Thus with option **U** all print jobs are recognised.

job-id
Item-id of a print job's control item and print data.

job-list
One or more job-ids.

job-name
Name that will be used to create job-ids.

list-name
Name of list saved or to be saved in POINTER-FILE.

macro-call (English commands only)
Macro definition item in the current dictionary, containing frequently-used English clause.

opts
One or more option letters, as listed for the command, generally given in any order and not separated from each other. Options can be specified as lower-case letters. Open bracket must precede them. Any restrictions on option combinations are shown in individual descriptions.

output-spec (English commands only)
Attribute(s) to be included in report: can be preceded with connective **TOTAL, MIN, MAX** or **BREAK-ON**, and followed by print limiters or break text. **TOTAL** calculates total of attribute that follows and subtotal at any 'break'. **BREAK-ON** displays break line when attribute that follows changes value. **MIN** and **MAX** cause minimum and maximum values of the attribute to be output at a control break. Print limiters limit the values to be output. Break text supplies text and options related to break lines.

sel-crit (English commands only)
Limits items to be processed via:

- Attribute names (omitted for 'item-selection').
- Selection connectives: **WITH** (mandatory) and **NOT** and **EACH** (optional). All omitted for 'item-selection'.
- Logical connectives: **AND**, **OR** (default is **OR**).
- Relational operators : **=**, **#**, **>**, **>=**, **<**, **<=** (default is **=**, except in 'item-selection' where relational operator is mandatory).
- Value mask: can include any characters plus **[** (left ignore), **]** (right ignore, or any string when not at end of mask), **^** (any character) - enclosed in single ('item-selection') or double quotes.

sort-crit (English commands only)
Clause(s) consisting of sort modifier(s) (**BY**, **BY-DSND**, **BY-EXP, BY-EXP-DSND, BY-EXP-SUB** or **BY-EXP-SUB-DSND.**) followed by attribute name. Attribute name can be followed by print limiters. See the *English Quick Reference Guide* for details.

transaction-info
Text, in quotes, describing current transaction; default is file name and item-id.

USING (English commands only)
File specified after this modifier is used to provide definitions.

Conventions

TEXT   Bold text represents characters typed exactly as shown.

text   Italic text indicates parameters you must supply or references to other documents.

{*param*} Braces enclose optional parameters.

[*param* | *param*]

    Square brackets containing parameters separated by vertical lines indicate that you must select at least one of these parameters.

RETURN   Small capitals show key names.

CTRL+X   Two (or more) key names joined by a plus sign indicate that the first key(s) is held down while the second (or last) is pressed.

X'*nn*'   This denotes a hex value.

Chapter 2
Commands

▪{ [▪ | X] }{ n }

Recalls previously executed commands for re-execution or modification.

▪   TCL Stacker command. By default a dot (.) is used, but can be changed to any printable ASCII character with *SET-STACK*.

Without execute modifier, enters line EDITOR and displays TCL command in specified stack position (default: position 1 - last command executed).

[▪ | X]
   Execute modifier. A second TCL Stacker command character (normally a dot) or **X** (upper or lower case). Displays and executes specified command from stack.

n   Stack position of required command (1 specifies last command executed).

Uses normal EDITOR commands to edit stack of saved commands, but **FI** executes command at line pointer, **FD** is not supported. Stack cleared at logoff, but can be saved via command **FS** (*file item* and subsequently restored via **ME** (*file item*.

V1

%FULL

Reports on the amount of disk space being used by a partition database. SYSMAN/SYSPROG only.

V3

ACCOUNT-FILE-STATS

Generates and prints statistics for an account. SYSMAN and SYSPROG only.

V3

ACCOUNT-RESTORE [*account* (*s*) | *] {**(***opts* }
or
ACCOUNT-RESTORE *new-account* (*s*) (**C**{*opts* }

Restores account(s) from **FILE-** or **ACCOUNT-SAVE**
tape. Run **UPDATE-ACCOUNT,** recatalog and
(optionally) recompile DataBasic programs after
restore if saved from another release. SYSMAN and
SYSPROG only.

account(***s***)
names on tape of accounts to restore, separated by
spaces (can be supplied by immediately- preceding
SELECT or equivalent).

***

restores all accounts on tape.

new-account(***s***)
Used with **C** option only. New names to restore
accounts to (can be supplied by immediately-preceding
SELECT or equivalent). Names on tape are prompted
for. New names must not exist on system.

opts:
C Renames accounts as they are restored. You are
prompted for names on tape which must be
entered in the sequence they appear on tape.
Separate by spaces.
F Sets tape speed to 50 ips. Use for tapes with
density 6250 bpi.
L If transaction logging is running, log all items
restored with L in D-pointer.
O Overwrites all existing files and items in the
account(s) with those of the same name on tape.
New files and items on tape are added. Existing
files and items not on tape are unchanged.

> **CAUTION** The **O** option should be used with
> extreme caution; use without fully
> understanding its effect may result in
> corruption and loss of data.

P   Sends output to printer.
R   Suppresses reallocation of file space.
U   Upgrade option (for use by Northgate only).

> **CAUTION**   The **U** option should only be used under instruction by Northgate.

V2

ACCOUNT-SAVE

Saves one or more accounts to tape. Tape block size, unit, density, label and accounts to save are prompted for. (Restore using **ACCOUNT-RESTORE** or **SEL-RESTORE**.) SYSMAN and SYSPROG only.

V2

ADDD *n m*

Adds two decimal numbers, *n* and *m*.

V1

ADDX *n m*

Adds two hex numbers, *n* and *m*.

V1

ALL-FILE-STATS

Generates and automatically prints a file statistics report for all accounts and files. SYSMAN and SYSPROG only.

V3

ALLOW-TANDEM {(*opts*}   (Solaris only)

Displays tandem status and enables or disables tandem operation on the current port. See description of TANDEM command.

opts:
D   Disable tandem.
E   Enable tandem.

V1

AND-ITEMS *filespec item-list* {**(***n*}

Returns a list containing each attribute value that occurs as many times as there are items, or *n* times if *n* specified.

ENG

AND-LISTS *list-name list-name* {*list-name*}... {**(***n*}

Returns a list containing each attribute value that occurs as many times as there are lists, or *n* times if *n* specified. Lists must have been created on the current account and reside in file POINTER-FILE.

ENG

ASSIGN {*channel* }=**TAPE** *unit-list* {**SIZE**=*size* } {**DEN**=*density* } {**BUFF=***buffs* } {**LABEL=***label* } {**(***opts*}

Assigns tape drives to the default or named channel and optionally specifies record size, density, buffers and label type. SYS1 privileges required.

unit-list
one or more tape unit numbers, separated by commas.

size
record size between **512** and **31767**; default is 8000.

density
tape density, **800**, **1600**, **3200** or **6250** bpi; for quarter inch tape, QIC format (120,150 or 525). Default is defined in **config** file.

buffs
number of tape buffers in range **1** to **10**; default is 2.

label
0   None.
1   Reality 50 Byte label.
2   SMA standard 80 Byte label (default).

opts:
L   Leaves tapes loaded until all tapes have been
        written once; then tapes are unloaded.
M   Logs all tape errors, including recovered errors.
W   Wait for tape to come on-line.

V2

BASIC *filespec item-list* {**(***opts* }

Compiles DataBasic program. Creates 'object' item
prefixed **£** or **$** in same file. Cannot be used with
source compacted programs.

opts:
C   Compiles for earlier release: compiler name (from
        BASIC-COMPILERS file) prompted.
E   Compiles without EOL opcodes in object item (do
        not use if debugging).
F   Terminates compilation on non-fatal error.
K   Kills output of asterisks during compilation.
L   Outputs listing of DataBasic program.
N   Suppresses automatic paging.
P   Prints error messages and other output.
R   Creates ££($$) item that is ready to execute.
S   Suppresses creation of symbol table otherwise
        appended to object item (do not use if debugging).
X   Outputs cross reference of variables/labels to
        CSYM file.

D/B

BKOFF

Disables BREAK key on current port. Synonym of
BREAK-KEY-OFF.

V1

BKON

Enables BREAK key on current port. SYS2 privileges
required. Synonym of BREAK-KEY-ON and ENABLE-
BREAK-KEY.

V1

BLIST *filespec item-list* {(*opts*) }

Lists DataBasic source code with logical indenting.
Cannot be used with source compacted programs.
! at start of program line usually prints row of asterisks
and **!!** ejects page after printing line (but see *opts*).

opts:

n{-*m*}   Prints from line *n* (to line *m*).
A   Indents all but **REM** comments to page middle.
B   Spaces per indent level (**1** to **5**, default **3**).
C   Keeps comments on left margin of listing. With **Z** option, comments are not indented at all.
D   Double spaces output.
E   Used with **M** option, expands **INCLUDE**d items.
F   Puts source filename in heading.
I   Indents end-of-line comments to page middle.
K   Suppresses row of asterisks for **!** source lines.
L   Prints a period (.) at each level of indenting.
M   Prints BASIC line numbers for **INCLUDE**d items.
N   Suppresses automatic paging of listing on screen.
P   Sends output to printer.
R   Suppresses flagging logic structure errors.
S   Suppresses listing. (Usually paired with **U** option.)
U   Updates source code with logical indenting.
X   Used with **M** and **E** options, displays a 'level number' for each **INCLUDE**d statement.
Z   Used with **C,** comments not indented.

D/B

BLOCK-PRINT *char-string* {(*opt* }

Prints character string in block format.

opt:
M   Uses Q-Pointer MINI-CONVERT.

V1

BLOCK-TERM *char-string* {**(***opt* }

Prints or displays character string in block format.

***opts*:**
P Sends output to printer.
M Uses Q-Pointer MINI-CONVERT.

V1

BREAK-KEY-OFF

Disables BREAK key on current port. Synonym of
BKOFF.

V1

BREAK-KEY-ON

Enables BREAK key on current port. SYS2 privileges
required. Synonym of BKON and ENABLE-BREAK-
KEY.

V1

BREF {**(***opt* }

Produces sorted cross-reference list of variables and
labels based on CSYM file items for DataBasic
program compiled with **X** option.

***opt*:**
P Sends output to printer.

D/B

BSELECT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*output-spec* } {*macro-call* } {**(***opts* }

Retrieves specified items from a file and generates a
select list comprising all elements (to subvalue level)
within all attributes of these items in the explicit or
default output-spec. English verb.

opts:
- **N** Suppresses automatic paging.
- **P** Sends output to printer.
- **R** Suppresses 'Item not on file' messages

ENG

BTX *n*

Converts binary number *n* to hexadecimal.

V1

BUILD.DESPOOLERS

Creates despooler records in DESPOOLER.CONTROL file for specified ports and for tape despoolers.

V2

BVERIFY *filespec item-list* {(*opts*}
or
BVERIFY *program* {*account* } {(*opts*}

Verifies object code of cataloged DataBasic program. If the first parameter is a valid *filespec* the first syntax is implied. SYSMAN and SYSPROG only.

opts:
- **E** Lists only errors.
- **F** Displays error if object (**£/$**) item not found.
- **N** Suppresses automatic paging.
- **P** Sends report to printer.
- **Q** Quick verify. Checks checksum only.

D/B

CATALOG *filespec item-list* {(*opts* }

Catalogs DataBasic programs to enable them to be run by entering program name at TCL, and allows sharing of programs between accounts. Object code item is loaded into POINTER-FILE or source file (option **R**) and MD command definition item is created.

opts:
I Prompts for account under which to catalog program and updates that account's MD unless option **L** or **X** used.
L Used with **I** option, updates local MD instead of specified account's.
O Overwrites existing item in MD file.
R Redirects executable item to file from which cataloged (item **££**item-id or **$$**item-id created).
X Used with **I** option, does not update any MD, so program cannot be executed at TCL.

D/B

CHARGE-TO {*project* }

Charges computer usage for session to *project*.

V1

CHARGES {**(**opt }

Displays computer usage since most recent logon.

opt:
P Outputs CHARGES report to printer.

V1

CHECK {n }

Checks *n* tape files on default channel for parity errors (default is 1).

V2

CHECK-SUM {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec* } {*macro-call* } {**(**opt }

Translates file contents into numerical values and computes a checksum. Useful for checking if a file has been updated or if it was accurately dumped to or from tape. English verb.

opt:
P Sends output to printer.
R Suppresses 'Item not on file' messages

ENG

CLAIM

Collects blocks of linked space, returns them to contiguous space, and displays overflow table. SYSMAN and SYSPROG only.

V3

CLEAR-ASSIGN {*channel* }

Cancels all or specified tape channel assignments for current process and detaches associated tape units.

V2

CLEAR-BASIC-LOCKS

Resets the 256 execution locks that may be set by DATA/ BASIC and Proc. SYSMAN and SYSPROG only.

D/B

CLEAR-FILE *filespec*

Clears dictionary or data file only (all items except D-pointers are deleted). SYS1 privileges required.

CAUTION Ensure file is not open elsewhere, or GFEs may occur. Do not use on file with GFEs.

V1

CLEAR-ITEM-LOCKS {*filespec*} {*item-id* } {**(***opts* }

Unlocks a specific item lock, all item locks for a port, or clears Item Lock Table.

WARNING Use only under guidance of Support personnel.

opts:

n   Unlocks lock *n* (a hex number preceded by a period (.)). SYS2 privileges required.

C   Clears Item Lock Table. Needs SYS2 privileges.

L{*n*}   Unlocks all item locks set by executing port or port *n.* If port specified, SYS2 privileges required.

V3

CLEAR-MSG

Clears message from line 25 of terminal.

V1

CLEAR-OPTION [*custom-option*|*]

Clears special options set by SET-OPTION.

custom-option

one of the options set by SET-OPTION.

*

clears all special options.

V1

COMP *filespec item-list* {**(***opts* }
WITH: {**(***filespec*} {*item-list* }

Compares two or more items in same or different files and reports on mismatches. Mismatched lines are marked D (deleted), I (inserted) or C (changed).

opts:

n   Overrides default parameter of 20 lines to search forward to realign after a misalignment.

A   Prints all lines within compared items.

B   Inserts page break between items.

C   Suppress comparison of DataBasic comments.

E   Used with **M** option to suppress comparison of end of line comments in REAL language items.

M   Compares items in REAL assembly language macro option format.

N Suppresses automatic paging of screen listings.
P Sends output to printer.
S Suppresses listing of item-ids of matching items.
W Wraps lines exceeding display columns.

V1

COMPARE

Compares all items in two (prompted for) files.

V1

COPY *filespec item-list* {**(***opts* }
TO: {**(***filespec*} {*item-list* }

Copies items to another file, to different item-ids within same file, or to terminal or printer.

*opts***:**
D Deletes items after copying. Not valid with P or T.
F Used with P or T, shows each item on new page.
I Lists destination item-ids as they are copied.
L Used with P or T, suppresses line numbers.
N Used with T, suppresses output paging .
O Overwrites destination file items with source file items if item-ids are same. Not valid with P or T.
P Sends output to printer.
S Suppresses printing of 'item-id exists' message.
T Copies items to terminal.
X Used with the P or T, performs hex dump.

V1

COPY-LIST *list1* {*account1* } {**(***opts* }
TO: *list2* {*account2* }   or   **(***filespec* {*item-id* }

Copies saved POINTER-FILE item-list to another list, or to a specified file (second syntax shown - note open bracket). If *filespec* used, *item-id* default is *list1*.

list1
source list in POINTER-FILE.

account1
source account; default is current account.

list2
destination list.

account2
destination account, default is current

opts:
D Deletes source list once copied. Invalid with **P** / **T.**
L Used with **P** or **T**, suppresses line numbers.
N Used with **T** option, suppresses autopagination.
O Overwrites existing list or item.
P Sends list to printer.
T Sends list to terminal.
X Used with **T** or **P** option, outputs in hex.

ENG

COUNT {*file-modifier* } *filespec* **{*item-list*}** {**USING** *filespec*} {*sel-crit*} {*macro-call*} {**(***opts* }

Displays or optionally prints count of items in file meeting selection criteria. English verb.

opts:
C{*n*} Displays counters updated every 500 or *n* items.
P Sends output to printer.
R Suppresses 'Item not on file' messages

ENG

CP *filespec item-list* {**(***opts* }

Copies a file or file items to a printer.

opts:
A Formats assembly language source as **MLIST**.
F Outputs new page before each item.
L Suppresses line numbers.
X Dumps in hex.

V1

CREATE-ACCOUNT

Creates a new local, remote or synonym account. SYSMAN and SYSPROG only (SYSMAN to specify password).

CAUTION   To interrupt process, press RETURN till cancel option appears. Do not use BREAK.

V3

CREATE-FILE *file m1*{*,s1* } *m2* {*,s2* } {**(***opts* }
or
CREATE-FILE DICT *file m1*{*,s1* } {**(***opts* }
or
CREATE-FILE *file* {*,data-sect* } *m2* {*,s2* } {**(***opts* }

Creates a file on current or specified account. SYS1 privileges required.

file
Any characters (up to 98), except spaces, commas or control characters. Must be unique in account.

***m1* {*,s1* }**
dictionary modulo and separation (*s1* default is 1).

***m2* {*,s2* }**
data modulo and separation (*s2* default is 1).

***opts*:**
I   Prompts for account name on which file is to be created (SYS2 privilege required).
L   Suppresses transaction logging tag (L) in attribute 1 of the file definition item but logs file creation.
S   Suppresses creation of self-referencing Q-pointer in a single level file.
X   Suppresses transaction logging tag (L) in attribute 1 of the file definition item.
Z   Overrides an earlier execution of FDB-SET.

V1

CREATE-INDEX *filespec index-name* {(*opts*}

Creates an index based on **DEFINE-INDEX** definition. SYS2 privileges required.

opts:
m An integer number that is used as the modulo for the index section.

V1

CREATE-TRIGGER *file-spec trigger trigger-type*

Associates a trigger with a Reality file. Requires SYS2 privileges.

trigger
The name of the trigger subroutine.

trigger-type
One of: **PRE-WRITE** (or synonym, **WRITE**), **POST-WRITE**, **PRE-DELETE** (or synonym, **DELETE**) or **POST-DELETE**.

V3

CT *filespec item-list* {(*opts* }

Copies a file or file items to your terminal or printer.

*opts***:**
A Formats assembly language source as **MLIST**.
F Outputs new page before each item.
L Suppresses line numbers.
N Suppresses automatic paging of output.
P Sends output to printer.
X Specifies hex dump.

V1

DATAPRODUCTS

Changes the form length and number of lines per inch on Dataproducts printers.

opt:
C Set up VFU channels in Centronics mode.

V1

DATE-FORMAT {(*opt* }

Changes date format for duration of logon session on local port only. Without options, changes format to US (*mm*/*dd*/*yy*). On Reality, default for database is set via **config** file.

***opts*:**
I   Changes format to international: *dd*/*mm*/*yy*.

V1

DB {*filespec*} {*item-list* }

Provides prompts and selections for editing, compiling, cataloging, running, and debugging DataBasic programs. Displays @ prompt for following commands:

RETURN   Returns to TCL.
B   Updates source with logical indents (via **BLIST**, options **U**, **S**)
C   Compiles program.
CD   Compiles program and lists to terminal.
CP   Compiles program and lists to printer.
D   Runs program via **DEBUG** command.
E   Enters line EDITOR to edit program. Inserts version number comment as first line of new items. Updates version number in existing items that have this comment. (Delete if not required, as in subroutine item.)
L   Catalogs program.
P   Prints program listing.
R   Runs program.
S   Enters Screen Editor to edit program.
SR   Performs **SELECT** then runs program (file name/selection criteria prompted).
SSR As **SR** but performs **SSELECT** .
T *command*. Executes TCL *command* then returns to @ prompt.

D/B

DEBUG *[filespec item-id | cataloged-program*]

Runs DataBasic program *item-id* or *cataloged-program* under debugger control.

D/B

DECAT *cataloged-program* {**(***opts*}
or
DECAT POINTER-FILE *item-id* {**(***opts*}

Produces intermediate object code (**$** or **£**) item from a cataloged progam and loads into source file.

opts
H Uses item-id from header for object item.
O Overwrites existing object item.

D/B

DEFINE-INDEX *file*{**,***data-sect* } {*sel-crit* }
{*sort-crit* } {**USING** *filespec*} {**(***opts* }
TO: *index-name*

Defines an index. See also **CREATE-INDEX.**

opts:
O Overwrites existing index definition item.

V1

DEL-LANG

Deletes language (prompted for) from language table. SYS2 privileges required.

V1

DELETE *filespec item-list*

Deletes one or more items from specified file. Does not delete D-pointers (see **EDELETE**).

V1

DELETE-ACCOUNT *account* {**(***opts* }

Deletes account and associated files. SYSMAN only.

CAUTION   Do not delete an account that has GFEs - Contact support.

***opts*:**
D   Suppresses detailed listing.
N   Suppresses automatic paging.

V3

DELETE-CATALOG *cataloged-program* {*account*}

Deletes MD entry for cataloged DataBasic program, and deletes executable item if in POINTER-FILE.

D/B

DELETE-FILE *filespec*

Deletes a file. Depending on how specific *filespec* is, it will delete a data section, the dictionary, or the dictionary and all data sections. SYS1 privileges requried.

CAUTION   Ensure file is not open elsewhere, or GFEs may occur. Do not delete file with GFEs.

V1

DELETE-INDEX *filespec index-name*

Deletes an index but not the index definition. SYS1 privileges required.

V1

DELETE-LIST {*list-name* {*account*}}

Deletes a saved item-list (in POINTER-FILE). SYS2 privileges required if *account* specified.

ENG

DELETE-TRIGGER *file-spec* [*trigger-type* | *]

Deletes trigger associations for a Reality file (see *CREATE-TRIGGER*). Requires SYS2 privileges.

trigger-type
One of: **PRE-WRITE** (or synonym, **WRITE**), **POST-WRITE**, **PRE-DELETE** (or synonym, **DELETE**) or **POST-DELETE**. * specifies all triggers.

V3

DESPOOLER.DETAIL

Lists details about all despoolers.

V2

DIR-VIEW *filespec directory* {**(***opts*}

Creates a file which provides a view of a host system directory (UNIX or Windows) from a Reality database. System files appear as items in the Reality file. Standard Reality processors (TCL, editors, English, DataBasic and Proc) can be used on the directory view file.

file-name
name of the file to be created

directory
absolute or relative path name of the system directory

opts:
B Binary view
F Binary view on read
R Read only

V1

DISCTOTAPE *filespec* {**(***opts*}

Creates a block on tape for each item on disk copied via **TAPETODISC**. Tape cannot exceed one reel.

opts:
F Outputs "#" at each tape file boundary.
H Converts hexadecimal to binary on output.
I Displays item-ids as the items are written to tape.

V2

DIVD *n m*

Divides decimal number *n* by decimal number *m*.
Result is shown on next line, followed by remainder.

V1

DIVX *n m*

Divides hex number *n* by hex number *m*. Result is
shown on next line, followed by remainder.

V1

DO *command*

Executes *command* repeatedly until any key is pressed.
SYSMAN and SYSPROG only.

V1

DSM

Enables you to create, change and delete despooler
definition items via an SPM sub-menu. SYSMAN and
SYSPROG only.

V2

DSPMON {**(***opts*}

Manages a selected list of despoolers by starting up
despoolers which have print jobs waiting in their
formqueues and stopping active despoolers as they
become idle, so as to limit the number of
simultaneously active despoolers to a pre-defined
number.

opts:
S   Displays setup menu.

Without the **S** option, DSPMON starts in the
foreground. To stop the foreground process, enter
CTRL + BREAK or execute **DSPMON (S** from another
terminal and request a wrapup.

V2

DTX decimal-num

Converts an integer decimal number to hex.

V1

ECOPY *filespec item-list* {**(***opts* }
TO: {**(***filespec*} {*item-list*}

Note: This verb is retained for upwards compatibility. It is no longer necessary because of the removal of the item size limit.

Expands and copies items to another file, to items with different item-ids in same file or to terminal/printer. Options are as for **COPY**.

D/B

EDELETE *filespec* [*item-list* | sel-crit] {**(**opts}

Deletes selected file items, including any D-pointers. An item-list (explicit or supplied by **SELECT** or equivalent) or selection criteria must be included. English verb.

opts:
C{*n*} Count of deleted items.
I Outputs item ids of deleted items. Takes precedence over C option.

ENG

ED{**IT** } *filespec item-list* {**(***opts* }

Enters the line EDITOR.

opts:
B Displays item in read-only ('browse') mode. Item lock neither set nor observed (like EDITOR command **K**).
P Sends output to printer.
Q Leaves the Editor prompt line on the screen between single-stepped lines of attribute data. For backward compatibility with earlier releases
Z Suppresses TOP and EOI messages.

ED

EDIT-LIST {*list-name* {*account*}} {**(***opts*}

Creates, modifies, merges or deletes saved item-list (in POINTER-FILE) using EDITOR commands.

opts*:*
P   Sends output to printer.
S   Command functions like SORT-LIST.
Z   Suppresses TOP and EOI messages.

ED

ENABLE

Enables features requiring software key. SYSMAN only.

V3

ENABLE-BREAK-KEY

Enables BREAK key on current or, specified, port. SYS2 privileges required. Synonym of BKON and BREAK-KEY-ON.

V1

ENABLE-LOGONS

Enables logon to the database for all ports. SYSMAN only. System command **unlockdbase** performs same function (database owner or, in UNIX, superuser only).

V3

ESEARCH {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit*} {*macro-call* } {**(***opts* }

Generates Select list of items containing or not containing character string(s) entered at a prompt. English verb. See also **SSEARCH**.

***opts*:**
A   Items must contain all specified strings (default is any specified string).
C{*n*} Displays counters updated every 500 or *n* items.

G{*n*} Completes once 500 or n items have been
　　selected.
I　　Lists selected item-ids. Takes precedence over C
　　option.
L　　Saves line numbers in which specified strings are
　　found as multivalues appended to item-ids in list.
　　A and **N** options are ignored.
N　　Selects items not containing specified string(s).
R　　Suppresses 'Item not on file' messages
S　　Suppresses Select list and invokes **I** option.

ENG

EVFU-SETUP {(*opt*}

Sets up printer's vertical format unit. SYSMAN and
SYSPROG only.

opts:
C　　Set up VFU channels in Centronics mode.

V3

F-S

Special version of **FILE-SAVE** that typically allows
overnight saves. SYSMAN and SYSPROG only.

V2

FDB-CLEAR

Used following the execution of FDB-SET to clear the
foreign database options set by that command.

V1

FDB-SET *database*, {*user*}, {*password*}

Changes the functionality of the CREATE-FILE and
restore commands so that files are created/restored on
the specified foreign database.

database
ODBC Data Source Name (DSN) for the foreign
database.

user

user-id for logging on to the database.

password

-password associated with this user-id.

V1

FDB-SHOW

Displays the current foreign database setting.

V1

FDISCTOTAPE *filespec item-id path* {**(***opts* }

Converts MultiValue pseudo-floppy image into Reality tape image.

filespec

Reality binary DIR-VIEW file containing MultiValue pseudo-floppy image.

item-id

MultiValue pseudo floppy image.

path

Native directory path into which to save Reality tape image.

opts:

C*n* Sets Reality Tape compression level; default: 0.
S Suppresses progress '#' characters.

V2

FIELDREAD {**(***opts* }

Reports on status of Field Read on your port. Options enable or disable Field Read for your port.

opts:

D Disables Field Read.
E Enables Field Read.

V1

FILE-SAVE

Backs up entire database on tape. SYSMAN and SYSPROG only.

CAUTION   Do not run if GFEs indicated. Only make customized versions from a copy (do not change standard Proc).

V2

FIND *item-id*

Searches all files defined on account for specified item-id. Gives you the option of editing items found.

V1

FORM-LIST *filespec item-id* {**(***n* }

Generates Select list from attributes of specified item.

n
first attribute to include in list (default is 1).

ENG

FQM

Enables you to create, change and delete form queue definition items via an SPM sub-menu. SYSMAN and SYSPROG only.

V2

GET-LIST {*list-name* {*account*}} {**(***n*}

Retrieves POINTER-FILE item list saved from current or specified account. See also **NEW-GET-LIST, SAVE-LIST, EDIT-LIST**.

n
first attribute to return from saved list (default 1).

ENG

GO *filespec proc-name*

Branches to the PQN Proc *proc-name* in file *filespec*. Therefore, the Proc *proc-name* is accessible from TCL without the Proc *proc-name* being in MD.

proc-name
name of a PQN Proc in file *filespec*.

V1

HASH-TEST {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*format-spec* } {*macro-call*} {**(***opts* }

Produces file hashing statistics and an optional histogram based on test modulo entered at prompt. English verb.

opts:
H   Generates histogram.
N   Suppresses automatic paging.
P   Sends output to printer.
R   Suppresses 'Item not on file' messages

V1

HUSH

Suppresses the display (echo) of data typed at the keyboard.

V1

I-DUMP {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*macro-call* } {**(***opts* }

Dumps contents of specified file to terminal or printer. System delimiters are represented in output as follows: ^ = attribute mark,] = value mark and \ = subvalue mark. English verb. See also **S-DUMP**.

opts:
N   Suppresses automatic paging.
P   Sends output to printer.

ENG

INHIBIT-LOGONS {**(***opt*}

Prevents all users, except the database owner, or in UNIX, the superuser, from logging on to the database. SYSMAN and SYSPROG only.

***opt*:**
A Prevents all users, except the UNIX superuser, from logging on.

V3

ISTAT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*format-spec* } {*macro-call* } {**(***opts* }

Produces file hashing statistics and optional histogram based on file's existing modulo. English verb. See also **HASH-TEST**.

***opts*:**
H Generates histogram.
J Displays alternate report of hashing statistics for index and enables interaction to find best modulo.
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages
U Displays alternative report of file hashing statistics and enables interaction to find optimum modulo.

V1

LIST {*file-modifier*} *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*output-spec* } {*format-spec* } {*macro-call* } {**(***opts* }

Creates formatted listing of file contents, typically in columnar format. English verb. See also **LIST-ITEM**, **LIST-LABEL**, **SORT** and so on.

***opts*:**
C Suppresses column headings, default page headings (page number, time and date), and summary line at end of report (*n* items listed) (equivalent to **COL-HDR-SUPP** modifier).

D Suppresses output detail when used with **BREAK-ON** modifier (equivalent to **DET-SUPP**).
H Suppresses default page headings and final summary line (equiv. to **HDR-SUPP** or **SUPP**)
I Suppresses item-ids (equivalent to **ID-SUPP**).
N Suppresses auto page (equivalent to **NOPAGE**).
P Outputs to printer/spooler (equivalent to **LPTR**).
R Suppresses 'Item not on file' messages

ENG

LIST ACC {*item-list* } {**(***opt* }

Reports selected computer usage statistics from ACC file.

item-list
one or more items enclosed in single or double quotes, each with format: *user-id*{**project* }**#***port-num*

project
project to display statistics for (as specified in **CHARGE-TO**).

port-num
port number to display statistics for.
opt:
P Sends output to printer.

V3

LIST FEATURES {**(***opts* }

Lists system revision and patch tape numbers and software packages installed from the FEATURES file.

opts:
N Suppresses automatic paging.
P Sends output to printer.

V3

LIST SYSTEM-LOG *error-type-macro* {**(***opts* }

Displays information for particular error or event (see below). SYSMAN and SYSPROG only.

error-type-macro
one of:

DSP.ERRORS Displays despooler errors. Add the macro **DSP.DETAIL** to report further details.

TAPE.ERRORS Displays all tape errors.

opts:
N Suppresses automatic paging.
P Sends output to printer.

V2

LIST-$STAT-FILE*
or
LIST-£STAT-FILE*

Prints statistics file generated by the last save executed on your terminal. SYSMAN and SYSPROG only.

V3

LIST-EXECUTION-LOCKS {**(***opt* }

Lists current entries in DataBasic and Proc Execution Lock Table. SYSMAN and SYSPROG only.

opt:
P Sends output to printer.

V3

LIST-FILE-STATS

Prints file statistics from STAT-FILE default data section. SYSMAN and SYSPROG only.

V3

LIST-GROUP-LOCKS {*filespec item-id* } {**(**opts }

Lists current entries in Read/Update Lock Table.

opts:

n{-*m*} Lists read/update locks set by line(s) *n* (to *m*).
P Sends output to printer.
R Only lists read locks.
S Suppresses detail and only lists total of locks set.
U Only lists update locks.

V3

LIST-ITEM {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*format-spec* } {*macro-call* } {**(**opts }

Outputs all attributes of specified items, each on a separate line preceded by attribute number. English verb. See also **SORT-ITEM**.

opts:

F Starts new page for each item.
L Suppresses line numbers.
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages   *ENG*

LIST-ITEM-LOCKS {*filespec item-id* } {**(**opts }

Lists current entries in Item Lock Table.

opts:

n   Lists only item locks set by line *n*.
n-m Lists item locks set by lines *n* to *m* inclusive.
I Lists lock number that the specified file produces.
P Sends output to printer.
S Suppresses detail and only lists total of locks set.

V3

LIST-LABEL {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*output-spec* } {*format-spec* } {*macro-call* } {**(***opts* }

Arranges file items in label format with each element
(to subvalue level) on a separate line. English verb.
See also **SORT-LABEL**.

opts:
C Equivalent to **COL-HDR-SUPP** modifier - same
effect as **HDR-SUPP** for this command.
D Suppresses output detail (as **DET-SUPP**).
H Suppresses default page headings and summary
line at end of report (equivalent to **HDR-SUPP**).
I Suppresses item-ids (equivalent to **ID-SUPP**).
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages
You are prompted for the label format:

COL,ROW,SKIP,INDENT,SIZE,SPACE(,C):

Enter parameters in sequence, separated by commas:

COL Number of labels across each page.
ROW Number of lines for each label.
SKIP Number of7 blank lines between each label.
INDENT Number of spaces (up to 20) from left
margin. If indent is non-zero, you are
prompted for a HEADER for each line in the
label (ROW parameter). Just press
RETURN for any headings not required. (If
item-ids not suppressed, first line of each
label is item-id.)
SIZE Width of label.
SPACE Number of blank columns between labels.
(,C) Suppresses null lines(s). If not specified,
blank line is produced for null elements.

ENG

LIST-LOCKS

Displays all locks (system, read/update, item and execution) currently in use by system. SYSMAN only.

V3

LIST-SPREAD *LIST-parameters*

Produces output similar to **LIST** but without paging and with tab character substituted for inter-column spaces. Parameters and options as for **LIST**. See also **SORT-SPREAD**.

ENG

LIST-TRIGGERS *file-spec*

Lists the triggers associated with a Reality file.

V3

LIST4 *filespec* {*sel-crit*} {*attribute*} {**(***opts* }

Lists item-ids (or specified *attribute*) from selected items in *filespec* in 4-columns. Use ID-SUPP or option I if an attribute is specified for output.

***opts*:**
I   Suppresses item-ids.
N   Suppresses automatic paging.
P   Sends output to printer.

V1

LISTCOLUMNS {*tableName*}

Lists details of columns in SQL tables.

SQL

LISTCONN {*filespec*} {**(***opts* }

Lists all English connectives in MD or specified file.

***opts*:**
N   Suppresses automatic paging.
P   Sends output to printer.

ENG

LISTDFILES {*filespec*} {**(***opt* }

Lists data sections of specified dictionary file, or all dictionary level files in account (default is MD).

***opt*:**
P   Sends output to printer.

LISTDICTS {*filespec*} {**(***opt* }

Lists all data definitions in file's dictionary or MD.

***opt*:**
P   Sends output to printer.

LISTF2 {**(***opts*} or **LISTF3** {**(***opts*} or **LISTF4** {**(***opts*}

Lists names of all files defined in current account in 2-, 3- or 4-column format (respectively), in sorted order.

***opts*:**
N   Suppresses automatic paging.
P   Sends output to printer.

LISTFILES {*filespec*} {**(***opt* }

Lists files, data-sections and indexes from current account or from dictionary of specified file.

file
file for which data-sections and indexes will be listed. If this is a Q-pointer to another account's MD, all files defined from that MD are listed. Default is local MD.

***opt*:**
P   Sends listing to printer.

LISTINDEXES {*tableName*}

Lists details of indexes defined for SQL tables.

LISTPF {**(***opts* }

Lists POINTER-FILE. SYSMAN and SYSPROG only.

***opts*:**
N   Suppresses automatic paging.
P   Sends output to printer.

V3

LISTPROCS {*file* } {**(***opts***)**}

Lists Procs in specified file; default is PROCLIB.

***opts*:**
N   Suppresses automatic paging.
P   Sends output to printer.

V3

LISTQFILES {*l account l*} {**(***opt* }

Lists all synonym pointers (Q-files) in current account or *account*.

***opt*:**
P   Sends output to printer.

V1

LISTU

Lists, for ports currently in use, port, user-id, account, location, and date and time logged-on to account.

V3

LISTVERBS {**(***opts* }

Sorts and displays verbs and cataloged DataBasic programs (not Procs) in MD of current account.

***opts*:**
N   Suppresses automatic paging.
P   Sends output to printer.

V1

LOAD-ALPHA *filespec item-id*

Loads an item generated via DENAT account that contains alternative character sets.

V1

LOAD-BNF *filespec item-id*

Loads DataBasic compiler BNF item. Destination file
is prompted. SYSMAN and SYSPROG only.

D/B

LOAD-COLL *filespec table-num* {**(***opt* }

Loads specified collation table into the table file (*file*).

***opt*:**
T   Loads as translation table, instead.

V1

LOAD-FR

Downloads field read object code from TERMINAL-
OBJECT file into P9 terminal.

V1

LOAD-LANG *filespec item-list* {**(***opt* }

Loads a message class into the active language table.

***opt*:**
V   Verifies loaded messages against language table
       items but does not load language.

V1

LOGOFF *port-num*

Logs off specified port. SYSMAN and SYSPROG only.
Requires SYS2 privileges.

V3

LOGON *port-num*,*user-id* {*,user-password* }
{*account* {*,account-password* }}

Logs on a remote port. SYS2 privileges required.
A remote port on a UNIX system must have a device
file permanently assigned.

port-num
number of port to log on, in decimal.

user-id
user's id.

user-password
user's password.

account
account to log onto.

account-password
password for account.

V3

LOGTO *account* {**,***password* } {**(***opt*}

Logs directly to another account without logging off.

CAUTION   Do not execute LOGTO in a PERFORM.

opt*:*
C   Bypasses logon Proc unless *account'*s D-pointer
        has **R** in attribute 9.
K   Keep original connection and return to it on exit.

V1

LOOP-ON *command-name*

Repeatedly executes specified command (provided
command is not a Proc). Use **CTRL+BREAK** to stop.

CAUTION   Check BREAK key is enabled before using.

V1

M-A-R

Restores one or more accounts previously saved using
M-A-S. SYSMAN and SYSPROG only.

V2

M-A-S

Saves one or more accounts to tape (see also
ACCOUNT-SAVE). SYSMAN and SYSPROG only.

V2

MAKE-SPECIAL *file keyword* {*parameters*}

Creates a special Reality file interface to a non-Reality object. SYSMAN only.

file
name of Reality special file to be created.

keyword
specifies type of special file. Keywords used are:

ENV	System environment	| No
ILOCKS	Item lock table view	| parameters.
NULL	Null device file	|
INDEX-ITEM	Index item view.	| Parameters:
INDEX-KEY	Index key value view	| ***data-sect index***
FILE	System file view - Parameters:	
	System_file {delimiter}	

System_file delimiter
path of UNIX or Windows file (as appropriate). Delimiter specifies character(s) to be converted to attribute marks. FILE view only. If no delimiter specified, value marks are not inserted in item.

data-sect index
specifies the index for a particular data section for INDEX-RAW, INDEX-ITEM and INDEX-KEY views.

V3

MAN {*element*}

Displays online documentation menu, or information about *element* (command, statement, etc).

V1

MESSAGE {*account* | **!** *port* {*-port*} | @*user-id* | %*plid*{*,plid*}|*]*text*}

Sends a message to one or more users on the system. See synonym **MSG** for details of syntax and variants.

V1

MOVE-FILE {*account* } *file* {**,***data-sect* }
TO: *account* {*file* {**,***data-sect* }}

Moves a file or data section to another account or file
and erases original, optionally renaming file. If
data-sect not specified, destination *file* can be omitted
and name on new account is unchanged. SYS2
privileges required.

Note: You must use this verb to rename an account:

> :**MOVE-FILE SYSTEM OLD.ACCNT.NAME**
> TO: **SYSTEM NEW.ACCNT.NAME**

V1

MSGn [*| **!***first-port*{-*last-port* }] *text*
MSGn *account* {**,***account* }... *text*
MSGn @*user-id*{**,**@*user-id*}... *text*
or
MSGn %*plid*{**,***plid*}... *text*

Sends a message (*text*) to the following:

*
all ports.

first-port
the only specific port number or the first of a range.

last-port
the last port number of a range.

account
an account.

user-id
a specified user.

plid
a full or partial PLId.

text
message up to 69 characters (63 for line 25 message).

MSG suffixed with *n*, which can be null, determines whether it is sent to the recipient's status line or cursor position and the message format, as follows:

MSG (status)   BELL FROM *port-no.*: *text*
MSG0 (status)   BELL *user-id*: *text*
MSG2 (cursor)   BELL *time date* FROM *port-no. user-id*: RETURN *text*
MSG3 (cursor)   *text*
MSG4 (status)   BELL FROM *port-no.*: *text*
MSG6 (cursor)   BELL *text*

Note: MSG4 saves a list of recipients' port numbers.

V1

MULD *n m*

Multiplies two integer decimal numbers, *n* and *m*.

V1

MULX *n m*

Multiplies two hex numbers, *n* and *m*.

V1

NET-LOGON *route, user-id{,pswd} {accnt{,pswd}}*

Logs-on a remote terminal.

route
 /etc/ROUTE-FILE or Windows registry entry for terminal.

user-id{,pswd}
System/Reality user-id (must be identical) for logon, and password (if required).

accnt{,pswd}
account on database for logon if no default for user, or to override default, and password (if required).

V3

NEW-GET-LIST *filespec item-id* {**(***n*}

Retrieves list previously saved via **NEW-SAVE-LIST**.
See also **GET-LIST**.

n
first attribute to return from saved list (default 1).

ENG

NEW-SAVE-LIST *filespec item-id*

Saves active list (created by **SELECT** or equivalent) in
specified file item. See also **SAVE-LIST**.

ENG

NEW-SORT-LIST *filespec* {*item-list* } {**(***opts*}

Sorts (and optionally further processes) the entries in
lists saved by **NEW-SAVE-LIST**.

opts:
n See option **M**.
C Counts identical entries in list, appending to the
     entry the count, if greater than one, preceded by a
     subvalue mark. Only active with **U**.
M Discards unique entries in list. If ***n*** not specified,
     keeps one copy of entries contained more than
     once. If ***n*** specified, keeps one copy of entries
     contained ***n*** or more times. Gives the intersection
     of merged lists.
N Inverts the M option to keep only those entries that
     occur just once in a list. Relevant only with the M
     option. Gives symmetric difference of merged
     lists.
R Sorts the list in a right-justified ascending order.
U Removes multiple cases of an entry. Gives the
     union of merged lists.

ENG

NOHUSH

Restores terminal echo after it has been **HUSH**ed.

V1

NSELECT *filespec*

Returns a select list of item-ids that are in a supplied (active) select list but are not in the specified file. See also **SELECT**.

ENG

OFF {**(***opts* }

Logs off terminal or terminal independent process from the database.

***opts*:**
D Disconnects immediately.
L Causes workspace to be unlinked.

V1

OLD-ACCOUNT-SAVE

Saves accounts to tape for loading onto a Reality pre-7.0 system. SYSMAN and SYSPROG only.

V2

OLD-FILE-SAVE

Saves database to tape for loading onto a pre-7.0 Reality system. SYSMAN and SYSPROG only.

V2

OLD-SAVE SYSTEM * (*opts*

Saves files to tape for subsequent loading onto a Reality pre-7.0 system. SYSMAN and SYSPROG only.

CAUTION See reference manual for important limitations and recommendations.

***opts*:**
D Dumps data files (default).
F Lists file names as well as account names.
I Saves individual account (prompted for).
P Sends output to printer.
S Creates file statistics in STAT-FILE.
Z Creates file statistics in user-specified file (prompted for).

V2

OR-ITEMS *filespec item-list*

Returns a list containing one copy only of each attribute value found in at least one item. See also **NEW-SAVE-LIST**.

ENG

OR-LISTS *list-name list-name {list-name}*...

Returns a list containing one copy only of each attribute value found in at least one list. Lists must have been created on the current account and reside in POINTER-FILE.

ENG

P

Toggles terminal output on and off.

V1

PASSWORD {**(***opts* }

Changes or removes password for user or account. Run from SYSMAN to change password for account or for other user.

***opts*:**
A   To set password for account.
X   Displays password in hex.

V1

PCSM

Enables you to create, change and delete printer command strings via an SPM sub-menu. SYSMAN and SYSPROG only.

V2

PD

Prints file dictionary items via spooler.

V1

PDM

Allows creation and maintenance of printer definition items. SYSMAN and SYSPROG only.

PDM

PH-ALLOCATE

Allocates a port for TIPH. SYSMAN and SYSPROG only.

V2

PH-DELETE

Deallocates a TIPH line.

V2

PH-KILL *port-num*

Terminates a TIPH process on specified port. SYS2 privileges are required for account other than your own.

CAUTION If a TIPH process is terminated before finishing you will not know which files have been updated and which have not.

V2

PH-LINES

Lists ports available for TIPH use.

V2

PH-START

Starts a TIPH process. Prompts for task-id, port-no., options, account, password and command stream.

***opts*:**
H Hushes **PH-START** message.
N No hold file is created and all terminal output is lost.

P Prints hold file on initiating process' assignment after process is complete.
T Normal terminal output. No hold file is created.
U Prompts for user-id and password to use.

Option combinations **HP**, **HN** and **HT** are valid.

V2

PH-STATUS {*task-id port-num* } {**(***opt* }

Displays status information on TIPH processes.

task-id
name of task as specified in **PH-START**, or * for all TIPH processes on specified port.

opt:
P Sends output to printer (default is to screen).

V2

PORT-DESPOOL {*despooler*} {**(***opts* }

Despools print jobs to printer or terminal attached to your port.

opts:
n Number of a translation table assigned to the despooler until the despooler is deactivated.
L Despools to device on auxiliary port of P99 terminal.
S Despools to device on auxiliary port of terminal other than P99.
X Returns to TCL or controlling Proc when print queue is empty. If X not specified, terminate port despooling by CTRL+BREAK then enter END at the ! prompt on originating terminal; port is suspended till SP-RESUME is typed for form queue.

V2

PORTOUT {*despooler* } {**(***opts* }

Despools print jobs. Synonym for **PORT-DESPOOL**.

V2

POVF

Reports on available disk space. Principally for use on a partition database.

V3

PQ-COMPILE *filespec item-id* {**(***opts* }

Compiles a large Proc to increase its efficiency. Text is stripped from comments and jumps are made direct. Destination file for compiled Proc is prompted.

***opts*:**
O   Lets you specify same file name for destination and source file, overwriting source item.
S   Deletes comment lines.
X   Must be used if Proc contains 'user exits'.

PROC

PQ-RESELECT *register-number*

Executed from Proc only (cannot be executed directly at TCL): resets specified select register's pointer to the beginning of item-id list. See also **PQ-SELECT**.

PROC

PQ-SELECT *register-number*

Executed from Proc (stack) only : loads an item-id list produced by **SELECT** (or equivalent) TCL command into a select register (**1** to **10**).

PROC

PRINT-CATALOG *filespec item-list* {**(***opt*}

Displays times and dates when cataloged programs were compiled. You can use the verb in two ways:

1. Specify MD as *filespec* and program names as item-list.
2. Specify POINTER-FILE as *filespec* and use the full POINTER-FILE item-ids e.g. SYSPROG*C*DEMO.

***opt*:**
P Sends output to printer.

D/B

PRINT-ERR *filespec item-list* {**(***opts* }

Processes and prints ERRMSG file format items.

***opts*:**
B Forces page break before each error message.
I Prompts for input required by error message.
N Suppresses automatic paging.
P Sends output to printer.

V1

PRINTRONIX

Changes form length, number of lines per inch and changed specifications on a Printronix interface printer.

opt:
C Set up VFU channels in Centronics mode.

V1

QSELECT *filespec item-list* {**(***n* }

Generates select list from attributes of specified items. See also **FORM-LIST**.

n
single attribute to include in list (default is to include all attributes from 1 onwards).

ENG

READ-1900 *filespec* {**(***opts* }

Reads data from ICL 1900 format tapes. No item list is required as blocks are written into items with numeric item-ids from 1 upwards.

***opts*:**

n Decimal number specifying number of blocks to read/write.
C Displays count of blocks read/written.
D Doubles tape mark terminator.
I Displays each item-id on new line.
N Takes null attributes as equivalent to tape marks.
S Reads/writes start-of-data sentinel and trailer label.
T Single tape mask terminator (overrides **D** option).
U 'Unblocks' multiple logical records, each being converted to a Reality item.

GUP

READ-2900 *filespec* {**(***opts* }

Reads data from ICL 2900 format tapes. No item list is required as blocks are written into items with numeric item-ids from 1 upwards.

***opts*:**

n Decimal number specifying maximum record size.
C Inhibits ASCII to EBCDIC (write) or EBCDIC to ASCII (read) conversion.
L Reads/writes header labels VOL1, HDR1 and HDR2 and tape mark.
P Used with **L** option, reads/writes unique labels (prompted for).
T Reads/writes trailer labels EOF1 and EOF2 and two tape marks.
V Reads/writes variable length records.
U 'Unblocks' multiple logical records, each being converted to a Reality item.

GUP

RECOVER-FD *filespec*

Recovers item deleted by **FD** command in EDITOR
when used immediately after **FD**.

ED

REFORMAT {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } {**USING** *filespec*} {*output-spec* } {*format-spec* } {*macro-call*}

Generates formatted list of attributes (like **LIST**) but
creates new items with this data and writes them to a
file (destination is prompted). Existing items with same
item-ids as new items are overwritten. The first
attribute in the output specification forms the item-ids
of new items created, and so on. English verb.

ENG

RENAME-FILE *file* {**,***data-sect* }

Renames file and default data section, or data section
only.

Note: Use MOVE-FILE to rename an account.

V1

RESET-ALPHA

Resets alphabet in force to standard ASCII alphabetic
character set. See also **LOAD-ALPHA**, **SET-ALPHA**.

V1

RESET.DESPOOLER {*despooler*} {**(***opt*}

Resets the despooler system.

opt:
D   Restarts previously active despoolers.
R   Re-tries to start despoolers after D option failed.
S   Spools active or suspended jobs.

V2

RESIZE-FILE *filespec* {*index*} {*modulo*} {**(** *opts* }

Resizes a Reality file while allowing access to it.

opt:
R   Restarts a discontinued resize.
B   Background mode (i.e. disconnect from terminal).
V   Verbose mode.

Restrictions:
- **Must be a Partition Database.**
- Must be logged on as database owner.
- SYSMAN only.
- Data or index sections only.
- No sequential access while file is being resized.
- Do not use during long English query.
- Can only be executed once per file per session of the database daemon.

V3

RUN *filespec item-id* {**(** *opts* }

Executes compiled DataBasic program. Use **DEBUG** command to execute under debugger control.

opts:
F   Treats warning messages as fatal errors and enters debugger.
I   Inhibits initialization of COMMON variables. (Only valid with **CHAIN** statement.)
N   Suppresses automatic paging.
P   Sends output to printer.
S   Suppresses run-time warning messages.
T   Inhibits writing of tape label when using **WRITET**.

D/B

RUNOFF *filespec item-list* {**(***opt* }

Outputs text via RUNOFF text processor.

opts:
J Suppresses highlight.
N Suppresses automatic paging.
P Sends output to printer.
R Resets all parameters on each new item.
S Suppresses underline and bold.
U Forces uppercase.

V1

S-DUMP {*file-modifier* } *filespec* {*item-list* }
{*sel-crit*} {**USING** *filespec*} {*sort-crit*} {*macro-call*}
{**(***opts* }

Dumps complete contents of specified file items to terminal or printer in sorted order. English verb. See also **I-DUMP**.

opts:
N Suppresses automatic paging of terminal output.
P Sends output to printer.

ENG

SAVE SYSTEM *item-list* {**(***opts* }

Dumps accounts to tape. Order of prompts (if multiple) is account, tape label, file for statistics (see options). Running counters of data saved displayed on status line if available. SYSMAN and SYSPROG only. See also **OLD-SAVE**.

CAUTION PROCs ACCOUNT-SAVE, F-S, FILE-SAVE and M-A-S all use SAVE and should be used in preference.

opts:
A Dump dummy ABS section (for Reality compatibility).
D Dumps data files (default).
F Lists file names. Otherwise, lists only accounts.

I   Used with **D** option and if * not specified for *item-list*, saves individual accounts (prompted for if not supplied).

K   Generates file statistics only; output to tape killed.

O   Overrides DX or DY D/CODEs and saves file.

P   Sends output to printer.

S   Creates file statistics in STAT-FILE.

T   Suppresses writing of tape label.

Z   Creates file statistics in specified file.

V2

SAVE-LIST {*list-name* }

Saves list created by **SELECT** or other command that generates an active list. Must be issued immediately following that command. List is saved in POINTER-FILE. See also **GET-LIST**, **NEW-SAVE-LIST**, etc.

ENG

SEARCH *filespec item-list* {**(***opts* }

Searches a file for one or more strings (prompted for). Depending on options, lists and/or puts in Select list item-ids of items containing (or not containing) string(s). This is a TCL-II verb, so the item-list can be omitted if a Select list is provided by an immediately-preceding command, or can be replaced by * to process all items. See also **ESEARCH**.

***opts*:**
A   Items must contain all specified strings.

I   Lists item-ids as they are selected.

L   Saves line numbers where matches are found.

N   Selects items not containing selected string(s).

S   Suppresses Select list and invokes **I** option.

V1

SE{D{IT}} *filespec item-list* {[**B**|**H**|**V**] }

Invokes Screen Editor in Edit Mode (existing item) or Input Mode (new item).

***opts*:**
B   Displays item in read-only ("browse") mode. Item lock neither set nor observed.
H   Turns Highlight ON (current line in reverse video).
V   Turns View function ON (displays attribute marks).

SE

SEL-RESTORE *filespec item-list* {**(***opts* }

Restores all or selected items from a file written to tape using **FILE-SAVE**, **ACCOUNT-SAVE** or equivalent. Prompts for account and file name or number are displayed (depending on options).

***opts*:**
A   Tape already positioned at account containing file.
C   Used with **N** option, every item up to next end-of-file is restored.
F   Sets tape speed to 50 ips. Use for 6250 bpi density.
I   Displays item-ids as they are restored.
L   If transaction logging running, all items restored are logged, regardless of L marker in D-pointers.
N   File to be identified by file-number, as shown in file-stats 'ORDER'.
O   Overwrites file items if same item-ids as those being restored from tape.
P   Sends output to printer.
S   Suppresses "exists on file" message.

V2

SELECT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*macro-call* } {**(***opts* }

Generates 'implicit' (active) list of selected item-ids, in the order they occur on file. English verb. The list is

supplied to an immediately-following English, TCL-II, or list processing command, or Proc or cataloged DataBasic program. See also **SSELECT**, **SAVE-LIST**, **NEW-SAVE-LIST**, **GET-LIST** etc.

***opts*:**
C{*n*} Displays counters updated every 500 or *n* items.
G{*n*} Completes once 500 or *n* items have been
selected.

ENG

SELECT-INDEX *filespec index-name* {[*string* |
start-string **-** *end-string*]}...

Generates an active list of selected item-ids in the index.

string
single value string that must be present in an index entry's key for the associated item to be selected.

start-string - end-string
starting and ending strings of a range within which index entry's key must belong for item to be selected.

V1

SET132 and **SET80**

Set width on suitable terminal to 132 or 80 columns respectively.

V1

SET-ALPHA ({*n-m*}{**C**}

Sets range *n-m* to be alphabetic for executing process, provided $n < m$, $n >=$ X'7F', $m <=$ X'F8'. Option **C** clears X'80' to X'FF' to non-alphabetic.

V1

SET-COLL *n*

Assigns collation sequence number *n* to requesting process until logoff.

V1

SET-DEC *char*

Defines character used as decimal separator in
numeric conversions by requesting process until logoff.

char
literal character to be used as decimal separator.

V1

SET-FILE {*account* {**DICT** } {*file* {**,***data-sect* }} {**?**} {**(***opts* }}

Creates Q-pointers in MD of account from which
executed to allow access to files on another account.
By default, pointers QFILE and QF*port* are created
(but see options). Account and file are prompted for if
omitted. If file defaulted, pointers are set to account's
MD. A **?** at FILE NAME ? prompt lists files on specified
account then re-prompts. SYS1 privileges required.

?
displays current **SET-FILE** parameters.

opts:

B Inhibits user input verification.
C Configures default Q-pointer items.
H Displays **SET-FILE** options and current
parameters.
L Allows viewing (but not update) of current
parameters.
N Synonym for **B** option.
O Used with **P** or **S** options, overwrites existing
Q-pointer.
P Creates permanent Q-pointer (name prompted
for).
S Synonym for **P** option.
PS Allows temporary Q-pointer to be made
permanent.
Q Used with **P** option, updates port-dependent
Q-pointer.
V Gives information on **SET-FILE** version.

V1

SET-LANG [*language-num* | *language-name* | **?**]

Assigns language specified by number/name to current port.

?

returns name of language running on your process.

V1

SET-MONEY *char*

Defines character used in numeric conversions as monetary denomination symbol for your port until logoff.

char

character to use as symbol.

V1

SET-OPTION *custom-option*

Sets options during the current session of the executing process. Use **CLEAR-OPTION** to clear these options.

custom-option: one of:

ALTFCORR	In English F conversion code, reverses order of operands for Div, Rem, Sub, and Cat, to work as with FS code, leaving [,], < and > unchanged.
ALTHEADING	Causes page number to be right-adjusted in English HEADING and FOOTING statements and allows nulling of a heading.
DB.DEBUG	Causes any DataBasic program initiated by the user to enter DataBasic debugger on executing DEBUG statements.
EB.DEBUG	Causes any DataBasic program run from External Basic to enter

---

DataBasic debugger on executing
DEBUG statements.

EMBEDDED.OPTIONS
Allows command options in middle of
TCL statement.

FATAL.WARNINGS
Causes all warning messages
generated by DataBasic programs to
be treated as fatal errors.

KEEPLIST   Causes active list to remain active if
a nonexistent verb is entered at TCL.

PROCX   Causes X in Proc to return from a
subroutine, rather than exit.

RPLDIVIDE   Allows the original value to be
returned within RPL if the divisor is
zero.

SPASSIGN   Causes *SP-ASSIGN* to close open
print jobs only when no parameters
are specified (for MultiValue
compatibility).

TCLDELIMITER Allows '\' to be equivalent to ' " ' at
TCL.

UCASEDATES Causes names and abbreviations of
day and month, produced by
conversions, to be uppercase letters.

UCASEDAYS   Causes names of days, produced by
output conversions, to be all upper-
case letters.

UCASEMSGS   Displays system messages in all
(rather than initial) uppercase.

V1

SET-PRIORITY {*n*}

Changes priority of local **reality** user process, to increase or decrease its response time.

n
required priority level:

0	Low
1	Default
2	High

If *n* is omitted, current priority number is displayed, but not changed.

V3

SET-PRIV *n*

Sets privilege level on current port to *n* (**0** or **1**) until logoff or LOGTO. SYS2 privileges required, SYSMAN and SYSPROG only.

V3

SET-STACK {*c* } {**(***n* }

Changes local TCL stack recall command to single character (*c*), and/or specifies different stack capacity until logoff.

n
max. commands in stack, range 0 to 500; default 20.

V1

SET-THOUS *char*

Defines character used by process in numeric conversions as thousands separation symbol.

V1

SETUP-ACCOUNT

Sets up account with software features. SYSMAN only.

V3

SHOW-ITEM-LOCKS {**(***opts* }

Lists items and processes currently being accessed or locked.

***opts*:**

n {*-m* }   Process number or range (default is all proc.).
H   Suppresses default heading.
N   Suppresses automatic paging.
P   Sends output to printer.

V3

SHOW-MODULI {**(***opts*}

Displays values that can be used as modulos.

opts:
n   Displays the next candidate modulo equal to or
     greater than *n*.
N   Suppresses automatic paging.
P   Sends the listing to the printer.

V1

SHUTDOWN

Logs off all users of the current database (without
warning). SYSMAN only.

V3

SIZE-MONITOR {**(***opts* }
or
SIZE-MONITOR [*account | file*] [*account | file...*]
{**(***opts* }
or
SIZE-MONITOR *file item-id* **(L** {**(***opts* }

Scans all or part of a database and reports badly sized
files. SYSMAN only.

opts:
C   Calculates a new optimum modulo.
L   Specifies an item containing a file list.
O   Sets a lower limit on the average number of
       overflow blocks before reporting. Prompts for a
       numeric lower limit.
P   Sends report directly to a printer.
S   Reports any items greater than a specified number
       of blocks. Prompts for the number of blocks.
V   Verbose mode.

Restrictions:
- Must be logged on as database owner.
- SYSMAN only.

V3

SLEEP [*n* | *hh*:*mm* {:*ss* }]

Deactivates local process for or until specified time.
CTRL+BREAK key awakens process.

n
number of seconds to sleep.

hh:*mm*:*ss*
time when process will awake.

V1

SORT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*output-spec* } {*format-spec* } {*macro-call* } {**(** *opts* **}**

Outputs sorted formatted listing of items and attributes from specified file. English verb. See also LIST.

opts:
C Suppresses column headings, default page headings (page number, time and date), and summary line at end of report.
D Suppresses output detail.
H Suppresses default page headings, and summary line at end of report.
I Suppresses item-ids.
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages

ENG

SORT-ITEM {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } {**USING** *filespec*} {*sort-crit* } {f*ormat-spec* } {*macro-call* } {**(***opts* }

Outputs all attributes of specified items, each on a
separate line, preceded by attribute number. Items are
listed in item-id or specified order. English verb. See
also **LIST-ITEM**.

***opts*:**
F Starts new page for each item.
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages

ENG

SORT-LABEL {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } {**USING** *filespec* } {*sort-crit* } {*output-spec* } {*format-spec* } {*macro-call* } {**(***opts* }

Arranges file items, sorted by item-id or as specified, in
label format with each element (to subvalue level) on a
separate line. English verb. See also **LIST-LABEL**,
SORT.

***opts*:**
C Equivalent to COL-HDR-SUPP modifier (same
     effect as H option for this command).
H Suppresses default page headings and final
     summary line.
I Suppresses item-ids.
N Suppresses automatic paging.
P Sends output to printer.
R Suppresses 'Item not on file' messages.

You are prompted for label format as for **LIST-LABEL**

ENG

SORT-LIST {*list-name* {*account* }} {**(***opts*}

Sorts (and optionally further processes) a list
previously saved in POINTER-FILE.

opts:
n See option **M**.

C Counts identical entries in list, appending to the entry the count, if greater than one, preceded by a subvalue mark. Only active with **U**.

M Discards unique entries in list. If *n* not specified, keeps one copy of entries contained more than once. If *n* specified, keeps one copy of entries contained *n* or more times. Gives the intersection of merged lists.

N Inverts the M option to keep only those entries that occur just once in a list. Relevant only with the M option. Gives symmetric difference of merged lists.

R Sorts the list in a right-justified ascending order.

U Removes multiple cases of an entry. Gives the union of merged lists.

ENG

SORT-SPREAD SORT-*parameters*

Produces output similar to **SORT** but without paging and with tab characters substituted for inter-column spaces. Parameters and options as for **SORT**. See also **LIST-SPREAD**.

ENG

SORT2 *filespec* {**(***opts*} or **SORT3** *filespec* {**(***opts*} or **SORT4** *filespec* {**(***opts*}

Sorts all item-ids in file in 2-, 3- or 4-column format respectively. See also **LIST4**.

*opts***:**
N Suppresses automatic paging.
P Sends output to printer.

V1

SP-ALIGN { [*form-queue* | *despooler* **(D**] }

Allows optional alignment and then output of print jobs that, for instance, require special forms. If *form-queue* is specified, it must have option **A** assigned. Not applicable to SYS queues.

V2

SP-ASSIGN {{*n* }=*form-queue*} {**FILE=** *job-file*} {**NAME=** *job-name*} {*spool-opts*} {*copies*}

Assigns for an explicitly stated print report number, or for the default assignment parameters, a form queue, job file, job name, spooler options and number of copies.

n
print report number in range **0** to **255**; default is 0.

***spool-opts*:**
A Suspends output to allow alignment of special forms.
B Overrides banner printing even if specified for a form queue.
H Puts a job on hold. Incompatible with N option.
I Instant output: starts printing before job closed. Incompatible with **N** or **S** options, SYS printers, or more than one copy.
N No printing for others: allows only jobs from your process to be printed. Incompatible with **H** and **I** options, SYS printers, or more than one copy.
O Leaves print job open when a process returns to TCL or Proc. Use it to group reports into one print job. See also *SET-OPTION*.
S Suppresses printing (usually used with **H** option).

copies
number of copies required if more than 1.

V2

SP-CLEAR {*job-file*} *form-queue* {**([F|U]**}
Deletes all print jobs from specified form queue.

V2

SP-CLOSE {**(***n* }

Closes open print report *n* or all open print reports.

V2

SP-COPIES {*job-file*} *job-id copies* {**(D**}

Changes number of times specified print job is output if it is waiting to be output or has HOLD or FINISH status.

V2

SP-COPY *filespec* {*item-list* } {**(D**}
TO: {**(***filespec*} {*item-list* }

Copies a job's print data from a source job file to a destination file. DICT not allowed in either *filespec*. Destination only can be remote. **D** means delete the job from the source job file.

V2

SP-CREATE form-queue despooler

Creates a form queue and assigns *despooler* to the queue. Enter 0 for despooler if you do not wish to assign a despooler.

V2

SP-DELETE {*job-file*} *job-list* {**([F|U]**}

Deletes one or more print jobs from form queue.

V2

SP-DESC{RIPTION} {*description* | **?** }

Sets the default description for print jobs to *description*, or displays the current description if **?** is entered.

description
description that will be applied to all subsequent jobs.

?

display the current description.

V2

SP-DESPOOLERS

Lists the despoolers defined in file
DESPOOLER.CONTROL.

V2

SP-DETAIL {*job-file*} *job-id* {**([F|U]}**

Displays control data for a print job.

V2

SP-DEVICE *form-queue despooler* {**(***opts*}

Changes the list of despoolers assigned to a form
queue. Enter 0 for *despooler* if you do not wish to
enter a despooler name.

opts:
A   Adds *despooler* to list of despoolers.
R   Removes *despooler* from list of despoolers.
X   Clears list of despoolers and adds despooler.

V2

SP-EDIT {*job-file*} *job-list* {**(***opts*}

Views, edits and outputs print job, or, (with **I** option)
copies print job to ordinary file item. Other options
(except **F**) only valid with **I**.

opts:
n   Upper limit for item, in range 4 to disk capacity.
A   Copies entire print job. Converts print jobs
       exceeding 31,767 bytes into items of 31,767 bytes
       or less and copies to sequential item-ids starting at
       id.001.
F   First operand following verb is a job file name.
I   Copies print job to file item, removing RETURN and
       pad characters. (Prompts for filename and itemid).
O   Overwrites existing item of same name.
P   Makes control characters (< X'20' or > X'7F')
       transparent.
U   Preserves RETURN, LINE FEED and pad characters.

Commands used within spooler editor:

A   Repeats last Locate command.

B   Moves cursor to end of print job.

CP   Moves cursor to approximate current print position of suspended print job.

EX   Exits and displays next print job or returns to TCL.

EXK Exits and returns to TCL.

FD   Deletes job if a HOLD file has been printed.

FDO Deletes job, overriding options.

L{n} Lists next line or next n lines.

L{n} **"*string*"** Locates specified string in rest of job or in next n lines.

Nn Moves cursor forward by n lines.

Nn **P** Moves cursor forward by n pages.

P   Displays next page (22 lines) on screen.

SP   Starts outputting print job at next line.

SPA As **SP** but sets **A** option (see **SP-ALIGN**).

T   Moves cursor to top of print job.

Un Moves cursor back n lines.

Un **P** Moves cursor back n pages.

W   Displays previous page (22 lines) on screen.

      RETURN Displays next line.

V2

SP-EJECT {*form-feeds*}

Issues one or a specified number of form feeds (up to 10) to the assigned printer.

V2

SP-FIX {*job-file*} [*job-list*|*formqueue-list*] {**(***opts*}

Cleans up jobs in inconsistent state due to system or program crash. *Job-list* and *formqueue-list* can be supplied via SELECT lists. Prompt allows each such job to be deleted, requeued or left alone. SYSMAN/SYSPROG only.

opts:

D   Deletes inconsistent print jobs.

F   Defines the first parameter after the verb to be a job file.

Q   Specifies the command parameters or the
          SELECT list to be formqueue names.
S   Re-queues inconsistent print jobs automatically, if
          possible.
R   Generates a report of inconsistent print jobs.

V2

SP-FORMQUEUE *form-queue*

Lists all the print jobs in a form queue in the order they
are queued.

V2

SP-FQDELETE *form-queue*

Deletes a form queue (unless it is printing).

V2

SP-JOBS {[*job-file* **(F|(U**]}

Lists print jobs and action codes and allows changes to
print jobs.

***opts*:**
F   Use *job-file* instead of default.
U   List print jobs from all job-files.

V2

SP-KILL {*job-file*} *job-id* **(J{F}**
or
SP-KILL *despooler* **(D**
or
SP-KILL *form-queue*

Kills the printing of, respectively:

- a specific job
- a job by a specific despooler
- a job in a specific form queue

V2

SP-LOOK

Displays current spooler assignments for local port.

V2

SP-MOVEQ {*job-file*} f*rom-form-queue to-form-queue* {**(F**}

Moves all print jobs in the specified job file from one form queue to another.

V2

SP-OPTS {*job-file*} {*job-id spool-opts*} {**([F|U]**}

Changes or cancels spooler options.

spool-opts:
A Suspends output to allow alignment of special forms.
B Overrides printing of banner.
H Holds print job until deleted.
S Suppresses output (use **SP-EDIT** or equivalent to output).

V2

SP-PRIORITY {*job-file*} {*job-id*} {**([F|U]**}

Moves specified print job to top of form queue. Not available for SYS queues.

V2

SP-QUEUEHOLD {*job-file*} {*job-list*} {**(***options***}

Allows print job on hold (print hold file) to be re-queued for subsequent printing.

***opts*:**
F Specifies that first parameter is a job file.

V2

SP-RESUME {*job-file*} *job-id* **(J**{**F**}
or
SP-RESUME *despooler* **(D**
or
SP-RESUME *form-queue*

Restarts, respectively:

- the printing of a specific job
- a specific despooler

- a specific form queue.

V2

SP-SKIP *form-queue num-of-pages*

Assigns number of pages to skip after printing job.

V2

SP-STATUS

Displays QUEUE STATUS screen, which lists form queues and action codes to allow changes to them. Action codes shown are equivalent to **SP-** verbs relating to form queues.

V2

SP-STOP {*job-file*} *job-id* **(J**{**F**}
or
SP-STOP *despooler* **(D**
or
SP-STOP *form-queue*

Stops, respectively:

- the printing of a specific job
- a specific despooler
- a specific form queue.

Use **SP-RESUME** or equivalent action code to resume output.

V2

SP-SUSPEND {*job-file*} *job-id* **(J**{**F**}
or
SP-SUSPEND *despooler* **(D**
or
SP-SUSPEND *form-queue*

Suspends, respectively:

- the printing of a specific job
- a specific despooler
- a specific form queue.

Use **SP-RESUME** or equivalent action code to resume output.

V2

SP-SWITCH {*job-file*} {*to-form-queue job-list* } {([**F**|**U**]}

Moves one or more print jobs to specified form queue.

V2

SP-TAPEOUT (*n*

Reads from tape *n* print jobs that have previously been spooled to tape and queues output via current spooler assignment.

V2

SP-TRANSLATE *despooler translation-table-#*

Changes the transaction table used by a despooler. Not applicable to SYS queues.

translation-table-#
number of a translation table entry.

V2

SPACE *n*

Performs multiple **T-FWD** commands to skip over *n* tape files.

V2

SPM

Enables you to create, change, and delete form queue definition items, despooler definition items, and printer command strings. SYSMAN and SYSPROG only.

V2

SQL *sql_statement* {**(***debug_options*}

Enables SQL statements to be invoked at TCL for administrative purposes.

debug_options:
C   Turns on the COUNT option (similar to English).

D8 Displays optimisation decisions.
O   Turns all SQL optimisation off.
S   Turns off sort optimisation.
T   Turns off table access optimisation (item-id and index optimisation).
V   Displays the version numbers of the SQL server and compiler.
W   Turns off multi-table WHERE clause optimisation.

SQL

SQL-VIEW *file-name database*, {*user*}, {*password*} *Table PkCols DataCols* {(**K**)}

Creates a Reality file that provides a view of an existing SQL table (or SQL view) on a foreign database.

file-name
name of the file to be created.

database
ODBC Data Source Name (DSN) for the foreign database.

user
user-id for logging on to the database.

password
password associated with this user-id.

table
name of the SQL table or view.

PkCols
name, or names, of the Primary Key column(s) on the SQL table or view, separated by commas.

DataCols
data column names in the SQL table or view, separated by commas.

opt:
K prompts for a Key Separator character to be used in the item-id in place of '\'.

SQLM

Runs the SQL maintenance utility which enables administration of a Reality SQL database. SYS2 privileges required.

SQL

SREFORMAT {*file-modifier*} *filespec* {*item-list*} {*sel-crit* } {**USING** *filespec*} {*output-spec* } {*format-spec*} {*macro-call*}

Generates a sorted and formatted list of attributes (like SORT) but creates new items with this data and writes them to a file . Existing items with same item-ids as new items are overwritten. English verb.

ENG

SSEARCH {*file-modifer* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit*} {*macro-call* } {**(***opts* }

Generates a sorted Select list of items containing or not containing character string(s) entered at a prompt. English verb. See also **ESEARCH**.

opts:
A   Items must contain all specified strings (default is any specified string).
I   Lists selected item-ids.
L   Saves line numbers in which specified strings are found as multivalues appended to item-ids in list. **A** and **N** options are ignored.
N   Selects items not containing specified string(s).
R   Suppresses 'Item not on file' messages.
S   Suppresses Select list and invokes **I** option.

ENG

SSELECT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {*macro-call* } {**(***opts* }

Generates sorted Select list of items in specified file. English verb. See also **SELECT**.

***opts*:**
C{*n*} Displays counters updated every 500 or *n* items.
G{*n*} Completes once 500 or *n* items have been
          selected. Takes precedence over C option.

ENG

SSM

Sets up system security via screens allowing definition of PLIds, user-ids and security profile-ids. SYSMAN only. See also **TERM**.

V3

ST-DUMP {*file-modifier* } *filespec* {*item-list* } {*sel-crit* } {**USING** *filespec*} {*sort-crit* } {**HEADING** "*label-text* "} {*macro-call* } {**(***opts* }

Dumps selected items in file in sorted order to the default tape channel. Any *label-text* is written to tape label. English verb. See also **ASSIGN**, **T-DUMP**.

***opts*:**
I   Lists item-ids as they are dumped.
P   Used with **I**, sends item list to printer.
R   Suppresses 'Item not on file' messages.
T   Inhibits writing of tape label (not recommended).

ENG

START-DESPOOLER *despooler*

Starts a despooler process.

V2

START-PRINTER *despooler*

Starts despooler (synonym for **START-DESPOOLER**).

V2

STAT {*file-modifier* } *filespec* {*item-list* } {*sel-crit* }
{**USING** *filespec*} {*macro-call* } *attribute-name*
{**(***opt* }

Generates total sum, average and count for numeric
data in specified attribute. English verb. See also
SUM.

***opt*:**
P   Sends output to printer.

ENG

STOP-DESPOOLER *despooler*

Stops a despooler process.

V2

STOP-PRINTER *despooler-name*

Stops a despooler process (synonym for above).

V2

SUBD *m s*

Subtracts decimal number *s* from decimal number *m*.

V1

SUBX *m s*

Subtracts hex number *s* from hex number *m*.

V1

SUM {*file-modifier* } *filespec* {*item-list* } {*sel-crit* }
{**USING** *filespec*} {*macro-call* } *attribute-name*
{**(***opt* }

Generates a total sum for numeric data in specified
attribute. English verb. See also **STAT**.

***opt*:**
P   Sends output to printer.

ENG

SYS {*system-command-string*}

Executes specified UNIX or Windows system command, then returns to TCL. If the command is omitted, the system prompt is invoked and displayed until 'exit' is entered.

V1

SYS-UPDATE

Updates system files at time of new software release. SYSMAN and SYSPROG only.

V3

T-ATT {*unit-list*} {**SIZE=***size* } {**DEN=***density* } {**BUFF=***buffs* } {**LABEL=***label*}

Attaches tape unit(s), to default channel only, for local process and optionally assigns parameters. SYS1 privileges required. See also **ASSIGN**.

unit-list
one or more tape unit number(s), separated by commas. Default is unit 1, but this must be specified if other parameters are used.

size
tape record size in range **512** to **31764**; default is 8000.

density
see **ASSIGN** command.

buffs
number of tape buffers in range 1 to 10; default is 2.

label
0 = None.
1 = Reality 50 Byte label.
2 = SMA standard 80 Byte label (default).   *V2*

T-BCK {*channel* } {*n* }

Moves the tape backwards *n* records or back to before last EOF (or to BOT) if *n* omitted or fewer than *n* records found. Valid with half-inch drives only.

V2

T-CHK {*channel* }

Checks tape for parity errors.

V2

T-COPY *channel1 channel2* {*n* } {**(***opt* }

Copies data from one tape to another.

channel1 channel2
source and destination channel, respectively.

n
number of files to copy. If not specified, all files up to two consecutive EOFs are copied.

opt:
F   Labels consecutive save tape reels.

V2

T-DET {*n* {**(***opt*}}

Detaches tape unit(s) from process and logs off users. See also **CLEAR-ASSIGN** command.

n
unit number to detach. Default is local attachment.

opt:
U   Detaches tape unit from line (except spooler's), if not in use. SYS2 privileges required.

V2

T-DEVICE {*unit-no* {*device-path* {*device-type*}}}

Temporarily redefines tape device definition for specified tape unit for local port and current session.

unit-no
Number of the tape device to be redefined. If omitted, all configured tape units are reset to the definitions in the database configuration file.

device-path
Path of new device to be defined for the specified tape unit. If omitted, the specified tape unit is reset to the definition in the database configuration file.

For a remote tape unit, *device-path* syntax is:

   system{;*port*};*device*{;*type*{;*flag*}}

system   DNS name or TCP/IP address of remote system.

port   Port number on the remote system - default: 6001.

device   Full path to device on remote system. Must include any modifier required by remote system.

type   Reality device type number of the remote drive - default: type 5 (4mm).

flag   A - Asynchronous mode (default)
          S - Synchronous mode.

device-type
The new device type for the specified tape unit.

1 = 1/2 inch tape
2 = 8mm Exabyte tape
3 = 1/4 inch (QIC) cartridge
5 = 4mm (DAT) cartridge
8 = remote tape device
9 = tape image (default, if *device-type* specified)

V2

T-DUMP {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } **{USING** *filespec*} {*sort-crit* } {**HEADING**
"label-text "} {*macro-call* } {**(***opts* }

Dumps selected items in file to default tape channel.
Any *label-text* is written to tape label. English verb.
See also **ASSIGN**, **ST-DUMP**.

***opts*:**
I   Lists item-ids as they are dumped.
P   Used with **I**, sends item list to printer.
R   Suppresses 'Item not on file' messages.
T   Inhibits writing of tape label (not recommended).

V2

T-ERASE {*channel* }

Erases cartridge tape and repositions at BOT. Should
always be used before writing to cartridge tape.

V2

T-FWD {*channel* } {*n* }

Moves tape forward *n* records or to after next EOF if *n*
omitted or if fewer than *n* records found before next
EOF.

V2

T-LOAD {*file-modifier* } *filespec* {*item-list* }
{*sel-crit* } {**USING** *filespec*} {*macro-call* } {**(***opts* }

Loads items, previously saved to tape by **T-DUMP** or
ST-DUMP, into specified file (from default tape
channel). English verb. See also **ASSIGN**.

***opts*:**
I   Lists item-ids as items are loaded from tape.
O   Overwrites existing file items with same item-ids.
P   With **I**, lists item-ids to printer.
S   Suppresses "exists on file" message.

V2

T-RDLBL {*channel* } {*n* }

Reads, displays and stores tape label from reel 1 or *n*.
Also changes record size if different from size
attached.

V2

T-READ {*channel* } {**(***opts* }

Reads and displays or prints contents of tape.

opts:
n{-*m*}   Reads records *n* to *m*, counting from current
             tape position. If *m* omitted, *n* records are read;
             if both omitted, all records to next EOF are
             read.
N   Inhibits automatic paging at terminal.
P   Sends output to the printer.
X   Displays in hex instead of character format.

V2

T-RETENSION {*channel* }

Retensions cartridge tape and repositions at BOT.
Should always be used before reading from cartridge
tape.

V2

T-REW {*channel* }

Rewinds half inch tape to load point (BOT).

V2

T-STACKER *unit-no slots*

Enables automatic multi-reel FILE-SAVE/RESTORE
operations on a multi-cassette tape stacker/autoloader
unit.

unit-no
Tape stacker unit number.

slots
Number of tapes in tape stacker. *slots* equal to 0
(zero) returns the unit to normal operations.

V2

T-STATUS {(*opts*}

Reports current status of each tape unit on system.

opts:
D*n* Deletes unit *n* from normal T-STATUS display.
E*n* Enables unit *n* for normal display after option **D**.

V2

T-UNLOAD {*channel* }

Rewinds, unloads and puts off line half inch tape unit(s) belonging to default or specified channel.

V2

T-VERIFY *channel1 channel2*

Compares tapes on specified channels and reports any mismatches. Usually run after **T-COPY**.

V2

T-WEOF {*channel* }

Writes EOF mark on tape.

V2

TL-SET-LOG-STATUS

Displays menu to allow selection of files to be logged on a Transaction Logging database. SYSMAN only. Options 4 and 5 only valid when Transaction Logging is active.

RES

TL-START

Enables transaction handling on the current database.

RES

TL-STOP

Disables transaction handling on the current database.

RES

TANDEM *target-port* (Solaris only)

Connects TANDEM user's port to a target port on the same database, so that target port activity is displayed at the user's port. The monitoring port must be set up in the same terminal mode as the target port and the target port must be enabled by ALLOW-TANDEM (E.

target-port
number of port to be monitored.

Tandem operates in two modes: view-only and feed mode. Initially TANDEM enters view-only mode, in which the monitor port only displays target port output. In feed mode, any input from the target or monitor terminal is passed to the target user process, except the break sequences listed below.

To change mode, enter CTRL+ *key* (default is underscore _), followed by (no RETURN necessary):

q   To quit tandem mode.
f   To enter feed mode.
v   To enter view-only mode.
b*key*   To re-define *key*.

V1

TAPETODISC *filespec* {**(***opts*}

Creates an item on disk for each block on tape. Tape cannot exceed one reel.

opts:
F   Outputs "#" at each tape file boundary.
H   Converts binary to hexadecimal on input.
I   Displays item-ids as the items are written to disk.

V2

TAPETOFDISC *path tape-image filespec* {**(***opts* }

Converts Reality tape image to MultiValue pseudo-floppy image.

path
The native directory path containing the Reality Tape image.

tape-image
Native file containing Reality Tape image. Must have file extension of '.rci' or '.rti'.

filespec
Reality binary DIR-VIEW file into which to save MultiValue pseudo floppy image.

opts:
S   Suppresses progress '#' characters.

V2

TERM *{a,b,c,d,e,f,g,h,i,j* } *{***(***opt* }

Changes (until logoff), or displays, terminal and serial printer characteristics for current port. The commas are parameter separators. If some parameters are unchanged, the correct number of commas must still be typed: for example *a,,,,,,,,i*.

a   terminal line length less one (usually 79).
b   display lines per page on terminal (usually 24).
c   blank lines at top of terminal page (usually 0).
d   delay characters after **RETURN**/LINEFEED (usually 0).
e   delay characters after top-of-form/form-feed (usually 2).
f   character, in addition to standard ASCII 8, to be treated as backspace. (Range is 0 to 31 or 127; usually set to 8)
g   printer line length (Range 10 to 320; usually 132).
h   printer page length (usually 60).
i   terminal type:
   0   Prism I and II (US only).
   1   Microdata Scribe (US only)
   2   ADDS Viewpoint (US only)

3 Hardcopy device.
4 Prism IV, V, 7, 8, 9, 12.
5 VT52 (US only)
6 VT100 and VT220 (US only)
7 Wyse 50 (US only)
8 P8/9 in multinational mode.
9 P9 in ANSI mode.
15 Terminal type defined by UNIX **TERM** variable (default Reality terminal type).
n Additional terminal types (if defined).
j blank lines at top of printer page (usually 0).

*opts***:**
P Sends configuration report to printer.

V1

TERMLOAD-SP

Loads 'serial printer' terminal executive from host.

GUP

TIME

Displays system time and date.

V1

TRACE *proc-name params*

Executes Proc *proc-name* and invokes Proc **TR** function.

params
parameters expected by the Proc to be traced.

PROC

TRANSABORT {*transaction-info* }

Undoes all updates and releases all item-locks set during the current transaction.

V1

TRANSEND {*transaction-info* }

'Commits' all updates made and releases all item locks set during the current transaction.

V1

TRANSQUERY

Reports transaction status of current port.

V1

TRANSTART {*transaction-info* }

Marks start of transaction.

V1

TYPEAHEAD-OFF

Turns off typeahead capability at current port until logoff.

V1

TYPEAHEAD-ON

Turns on typeahead capability at current port until logoff.

V1

UPDATE-ACCOUNT

Updates account (prompted for) after **SYS-UPDATE,** or after restoring account from a tape made under a different release of Reality, to reflect changes in MD elements. SYSMAN and SYSPROG only.

CAUTION   Never use UPDATE-ACCOUNT to update the SYSMAN or SYSPROG account (this is done during installation).

V3

UPDATE-ALL-ACCOUNTS

Updates all user accounts after a **SYS-UPDATE** to reflect changes in MD elements. SYSMAN and SYSPROG only.

V3

USER

Displays system privilege level and additional workspace frames currently allocated to process.

V1

VERIFY-INDEX *filespec index-name* {**(V**}

Reports on the number of key values that do not match or correspond to item-ids in a file. Option **V** selects verbose mode.

V1

VERIFY-SAVE {**(***opts* }

Verifies integrity of files section of any save tape. SYSMAN and SYSPROG only.

CAUTION   If an error is reported, repeat the save or ensure another backup copy exists.

opts:
I   Verifies single account. Must use for each account when verifying **ACCOUNT-SAVE** or **M-A-S** tapes.
P   Prints list of files (instead of displaying it).

V2

VERIFY-SYSTEM {**(***opts* }

Verifies integrity of system DataBasic programs. If any mismatches are found, contact your Support representative. SYSMAN and SYSPROG only.

opts:
P   Sends output to printer.

V3

WHERE {*m* {-*n* } {**(***output-opts* }

Displays information on current logged-on users.

m-n
process number or range of process numbers.

***output opts*:**
A   Reports account instead of process-id
S   Reports 'minor state' for each process.

V3

WHO {[*m* {-*n* } | *]}

Returns port number, user-id, database name and account name for current or specified ports.

m-n
port number or range of port numbers.

*
specifies all logged-on ports.   *V1*

WRITE-1900 *filespec* {*item-list* } {**(***opts* }
or
WRITE-2900 *filespec* {*item-list* } {**(***opt* }

Writes items from specified file to tape. Item-ids are not written; data is converted before writing. These verbs operate on the default channel (see **ASSIGN**).

***opt*:**
Same as **READ-1900** and **READ-2900** (respectively), where meaningful.

GUP

XOR-ITEMS *filespec* *item-list*

Returns an active list comprising each attribute value contained only once when all specified items are combined. For example, a value contained more than once in an item is not returned.

ENG

XOR-LISTS *list-name list-name* {*list-name*}...

Returns a list comprising each list entry contained only once when all specified lists are combined. For example, an entry contained more than once in a list is not returned. Lists must have been created on the current account and reside in file POINTER-FILE.

ENG

XSELECT *filespec*

Compares the values in a supplied (active) list against the item-ids of the specified file and returns a list of item-ids in the file but not in the list.

ENG

XTB *hex-num*

Converts hex number to binary.

V1

XTD *hex-num*

Converts hex number to decimal.

V1

Appendix A
Commands Listed by Category

Account Management

ACCOUNT-FILE-STATS	ALL-FILE-STATS
CREATE-ACCOUNT	DELETE-ACCOUNT
LIST-$STAT-FILE *	LISTCONN
LISTDFILES	LISTDICTS
LISTFILES	LIST-FILE-STATS
LISTPROCS	LISTQFILES
LISTVERBS	MOVE-FILE
PASSWORD	SETUP-ACCOUNT
UPDATE-ACCOUNT	UPDATE-ALL-ACCOUNTS

Data Output

CLEAR-OPTION	CT
LIST	LIST4
LIST-ITEM	LIST-LABEL
LIST-SPREAD	SET-OPTION
SORT	SORT2
SORT3	SORT4
SORT-ITEM	SORT-LABEL
SORT-SPREAD	STAT
SUM	

DataBasic

BASIC	BLIST
BREF	BVERIFY
CATALOG	CLEAR-BASIC-LOCKS
CONVERT.OBJECT	DB
DEBUG	DECAT
DELETE-CATALOG	ECOPY
LISTPF	LOAD-BNF
PRINT-CATALOG	RUN
UPGRADE.BASIC.OBJECT	VERIFY-SYSTEM

Date and Time

CLEAR-OPTION	DATE-FORMAT
SET-OPTION	TIME

Denationalization

DEL-LANG	LOAD-ALPHA
LOAD-COLL	LOAD-LANG
RESET-ALPHA	SET-ALPHA
SET-COLL	SET-DEC
SET-LANG	SET-MONEY
SET-THOUS	

Editor

ED{IT}	EDIT-LIST
RECOVER-FD	SE{DIT}

ENGLISH-syntax

BSELECT	CHECK-SUM
COUNT	DEFINE-INDEX
EDELETE	ESEARCH
HASH-TEST	I-DUMP
ISTAT	LIST
LIST-ITEM	LIST-LABEL
LIST-SPREAD	REFORMAT
S-DUMP	SELECT
SORT	SORT-ITEM
SORT-LABEL	SORT-SPREAD
SREFORMAT	SSEARCH
SSELECT	STAT
ST-DUMP	SUM
T-DUMP	T-LOAD

File and Item Management

CHECK-SUM	CLEAR-FILE
COMP	COMPARE
COPY	COUNT
CREATE-FILE	DELETE
DELETE-FILE	EDELETE
ESEARCH	FIND
HASH-TEST	I-DUMP
ISTAT	LISTDFILES
LISTDICTS	LISTF2
LISTF3	LISTF4
LISTFILES	MOVE-FLE
REFORMAT	RENAME-FILE
RESIZE-FILE	S-DUMP
SEARCH	SET-FILE
SHOW-MODULI	SIZE-MONITOR
SREFORMAT	SSEARCH
STAT	SUM

Indexing

CREATE-INDEX	DEFINE-INDEX
DELETE-INDEX	SELECT-INDEX
VERIFY-INDEX	

Item List Generating/Retrieving

AND-ITEMS	AND-LISTS
BSELECT	ESEARCH
FORM-LIST	GET-LIST
NEW-GET-LIST	NSELECT
OR-ITEMS	OR-LISTS
QSELECT	SEARCH
SELECT	SELECT-INDEX
SSEARCH	SSELECT
XOR-ITEMS	XOR-LISTS
XSELECT	

Item List Processing/Related

CLEAR-OPTION	COPY-LIST
DELETE-LIST	EDIT-LIST
NEW-SAVE-LIST	NEW-SORT-LIST
SAVE-LIST	SET-OPTION
SORT-LIST	

Locks

CLEAR-BASIC-LOCKS	CLEAR-ITEM-LOCKS
LIST-EXECUTION-LOCKS	LIST-GROUP-LOCKS
LIST-ITEM-LOCKS	LIST-LOCKS
SHOW-ITEM-LOCKS	

Logging On/Off

ENABLE-LOGONS	INHIBIT-LOGONS
LOGOFF	LOGON
LOGTO	NET-LOGON
OFF	SHUTDOWN

Math

ADDD	ADDX
BTX	DIVD
DIVX	DTX
MULD	MULX
SUBD	SUBX
XTB	XTD

Miscellaneous

. (Dot)	BLOCK-PRINT
BLOCK-TERM	CLEAR-MSG
CLEAR-OPTION	DO
LOOP-ON	MAN
MESSAGE	MSG
PRINT-ERR	RUNOFF
SET-OPTION	SET-PRIV
SET-STACK	SHUTDOWN
SLEEP	SQL
SQLM	

New Systems/Upgrades

ENABLE	SYS-UPDATE
UPDATE-ACCOUNT	UPDATE-ALL-ACCOUNTS

Peripherals

DATAPRODUCTS	EVFU-SETUP
PCSM	PRINTRONIX

Port Setup

ALLOW-TANDEM	BKOFF
BKON	BREAK-KEY-OFF
BREAK-KEY-ON	CHARGE-TO
CLEAR-OPTION	ENABLE
ENABLE-BREAK-KEY	ENABLE-LOGONS
FIELDREAD	HUSH
INHIBIT-LOGONS	NOHUSH
P	SET132
SET80	SET-OPTION
SSM	TERM
TYPEAHEAD-OFF	TYPEAHEAD-ON

PROC

CLEAR-OPTION	GO
LISTPROCS	PQ-COMPILE
PQ-RESELECT	PQ-SELECT
SET-OPTION	TRACE

Saving and Restoring Data

ACCOUNT-RESTORE	ACCOUNT-SAVE
DISCTOTAPE	FILE-SAVE
F-S	M-A-R
M-A-S	OLD-ACCOUNT-SAVE
OLD-FILE-SAVE	OLD-SAVE
SAVE	SEL-RESTORE
ST-DUMP	TAPETODISC
T-DUMP	T-LOAD
VERIFY-SAVE	

Spooler

BUILD.DESPOOLERS	DESPOOLER.DETAIL
DSM	DSPMON
FQM	PCSM
PDM	PORT-DESPOOL
PORTOUT	RESET-DESPOOLER
SP-ALIGN	SP-ASSIGN
SP-CLEAR	SP-CLOSE
SP-COPIES	SP-COPY
SP-CREATE	SP-DELETE
SP-DESCRIPTION	SP-DESPOOLERS
SP-DETAIL	SP-DEVICE
SP-EDIT	SP-EJECT
SP-FIX	SP-FORMQUEUE
SP-FQDELETE	SP-JOBS
SP-KILL	SP-LOOK
SPM	SP-MOVEQ
SP-OPTS	SP-PRIORITY
SP-QUEUEHOLD	SP-RESUME
SP-SKIP	SP-STATUS
SP-STOP	SP-SUSPEND
SP-SWITCH	SP-TAPEOUT
SP-TRANSLATE	START-DESPOOLER
START-PRINTERS	STOP-DESPOOLER
STOP-PRINTER	

Status

%FULL	CHARGES
FIELDREAD	LIST ACC
LIST FEATURES	LISTU
POVF	SP-JOBS
SP-LOOK	SP-STATUS
USER	WHERE
WHO	

System Environment-REALITY Integration

DIR-VIEW	MAKE-SPECIAL
SYS	

Tapes

ASSIGN	CHECK
CLEAR-ASSIGN	DISCTOTAPE
READ-1900	READ-2900
SPACE	ST-DUMP
TAPETODISC	T-ATT
T-BCK	T-CHK
T-COPY	T-DET
T-DEVICE	T-DUMP
T-ERASE	T-FWD
T-LOAD	T-RDLBL
T-READ	T-RETENSION
T-REW	T-STACKER
T-STATUS	T-UNLOAD
T-VERIFY	T-WEOF
WRITE-1900	WRITE-2900

TCL-II Verbs (Commonly Used)

AND-ITEMS	BASIC
BLIST	CATALOG
COMP	COPY
CP	CT
ED{IT}	FORM-LIST
NEW-SORT-LIST	OR-ITEMS
PQ-COMPILE	PRINT-CATALOG
PRINT-ERR	QSELECT
SE{D{IT}}	SP-COPY
XOR-ITEMS	

Terminals Executives

LOAD-FR	TERMLOAD-PB
TERMLOAD-SP	

TIPH

PH-ALLOCATE	PH-DELETE
PH-KILL	PH-LINES
PH-START	PH-STATUS

Transaction Handling

TRANSABORT	TRANSEND
TRANSQUERY	TRANSTART

Troubleshooting

ESEARCH	FIND
I-DUMP	S-DUMP
SEARCH	SSEARCH
TANDEM	TRACE
VERIFY-SYSTEM	WHERE

Appendix B
Control Characters

Control Characters

CTRL+BREAK

Interrupts current process and enters software debug (!
prompt), or DataBasic debug (* prompt) if within
program on interrupt.

CTRL+E

During output of a 'paged' listing, causes control to
return to originating processor.

CTRL+H

Backspace: deletes last character typed.

CTRL+Q

Resumes display to screen after CTRL+S has been
entered. XON/XOFF flow control must be enabled.

CTRL+R

Retype: reprints current line entered. This is for
hardcopy terminals.

CTRL+S

Pauses all screen display until CTRL+Q is entered.
XON/XOFF flow control must be enabled.

CTRL+X

Terminates process and returns control to TCL. Also,
cancels line being typed and can be set to cancel all
typeahead commands.

CTRL+_

Line continuation: allows extension of another 240
characters. It must be typed as the last character in a
logical line, before the 240th character and followed
immediately by RETURN or LINEFEED.

CTRL+[

EDITOR command delimiter (equiv. to ESC or X'27').

CRTL+

Generates Subvalue Mark (SVM), X'FC'.

CTRL+]

Generates Value Mark (VM), X'FD'.

CTRL+^

Generates Attribute Mark (AM), X'FE'.

Notes