

QUICK REFERENCE GUIDE

MATH FUNCTIONS, ETC.

ARITHMETIC  
 + plus  
 - minus  
 \* multiply  
 / divide  
 \*\* exponent  
 SQR square root  
 LOG logarithm  
 ALOG anti-log  
 SIN sine  
 COS cosine  
 TAN tangent  
 ATAN arc-tangent  
 (-n) unary or neg. #

enclose operators in parentheses when using WORD functions.

COMMAND LANGUAGE

\* comment line  
 ; allows continuation on next line

(during execution):  
 [SPACE] pause  
 [S] continue  
 [Fn][9] abort

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BOOLEAN

< less than  
 > greater than  
 <> not equal  
 = equal  
 ~ arithmetic

LOGICAL

.NOT. (expression)  
 .AND.  
 .OR.

DATE

.DATE.  
 MONTH  
 DAY  
 YEAR

CHARACTER

! concatenation  
 TRIM removes trailing blanks

STATUS keywords:

DATDISK  
 PRGDISK  
 PRINTER  
 PAGE  
 HEADING  
 TALK  
 SPACES  
 RECNUM  
 LSPACE  
 DATE  
 CURSOR (0<=n<99)

PRINTER Control Codes

FF Form Feed  
 LF Line Feed  
 CR Carriage Return  
 DS DoubleStrike  
 UL UnderLine  
 EX Expanded  
 CM Compressed  
 IT Italics  
 B Bold  
 SPS SuPerScript  
 SBS SuBScript  
 HT Horizontal Tab  
 ST SetTab  
 NM NorMal

RECOMMENDED ALTERNATES

8 8 lpl  
 6 6 lpl  
 NLQ Near Ltr Quality  
 DR Draft  
 RS ReSet  
 ESC ESCape

KEY to COMMAND modifiers:

[C] must be used in COMMAND file.  
 [P] must have program disk in drive.  
 [D] unless specified, uses default DATDISK to find file.  
 [S] operates on current slot only.  
 [n.S] unless specified, operates on current slot.  
 [\*] [SPACE] bar to pause, [S] to re-start, [Fn][9] to escape.

Convention: values to be replaced are in *italics*.

COMMAND (required entry) {optional entry} [modifier]: description.

APPEND [S]: appends new record to end of DataBase.  
 APPEND BLANK [S]: appends blank record at end of DataBase.  
 BOTTOM [S]: goes to last record in DataBase.  
 BREAK [C]: terminates processing following CASE that is TRUE, until ENDCASE.  
 CASE (expression) [C]: if (expression) is TRUE, following statements executed until BREAK.  
 CATALOG DSK(n) [P]: catalogs disk (n).  
 CHANGE (address) (value) [P]: patch hex address with hex value.  
 CLEAR: clears display.  
 CLEAR LOCAL: clears all LOCAL variables.  
 CLOSE {ALL} [S]: updates and closes database(s).  
 COLOR (foreground) (background) [P]: changes colors.  
     transparent dark-blue medium-red dark-green  
     black light-blue light-red magenta  
     medium-green dark-red dark-yellow gray  
     light-green cyan light-yellow white  
 CONVERT (input file) (output file) [GO] [P]: allows conversion or expansion of existing database files. GO bypasses prompts.  
 COPY (from: file) (to: file) [GO][P] [D]: copies files. GO bypasses prompts.  
 CREATE (filename) [D] [S]: opens and creates database named (filename). type: C=character, X=Hex, N=numeric, D=date, dec=# of decimal places.  
 DELETE DATABASE [P] [S]: deletes DataBase in current slot.  
 DELETE RECORD [n] [P] [S]: marks current (or {n}th) record for deletion, making it unavailable for normal processing. See RECALL, PACK, & SORT.  
 DELETE FILE (filename) [P] [D]: deletes the specified file.  
 DISPLAY STRUCTURE [S]: displays structure of DataBase.  
 DISPLAY STRUCTURE LOCAL: displays structure of LOCALs in use.

**DISPLAY STATUS:** displays current system status. Use SET to change.  
**DISPLAY ALL** *{(n.) a,b,...}* *[\*]* *[n.S:]*: displays all (or *{a,b, etc}*) fields of DataBase. *{n.}* defines a different slot number.  
**DISPLAY** *[\*]* *[S:]*: displays all fields in the current record.  
**DISPLAY** *{(n.)a,b,...}* ;**FOR** *(expression)* *[\*]* *[n.S:]*: will search entire database for *(expression)* and display specified fields for each record where *(expression)* is true.  
**DISPLAY** *(n)* *[\*]* *[S:]*: displays all fields in the next *(n)* records.  
**DO** *(filename)* *{LIST}* *[\*]* *[D:]*: executes (or *LISTs* to screen) command file *(filename)*. Can be nested 5 deep. TALK must be on to LIST.  
**DOCASE** *[C:]*: initiates CASE processing. Followed by CASE, BREAK, and ENDCASE.  
**EDIT** *(n)* *[S:]*: edits current (or *(n)*th) record in DataBase.  
**EJECT:** sends "Form Feed" code to printer.  
**ELSE** *[C:]*: follows IF command, statements are executed if IF is FALSE.  
**ENDCASE** *[C:]*: terminates DOCASE processing.  
**ENDIF** *[C:]*: terminates IF processing.  
**ENDWHILE** *[C:]*: terminates WHILE processing.  
**FIND** *(expression)* *[n.S:]*: finds *(expression)* in the sort field after SORTing. If multiple SORT, FIND works only on primary SORT field. *(expression)* may be any literal or fieldname.  
**FORMAT** *[P:]*: initializes diskette, with prompts.  
**IF** *(expression)* *[C:]*: statements following are executed if TRUE. Must be followed by ENDIF. Also see ELSE.  
**LIST** *(filename)* *[D:]*: will list *(filename)* including extension to printer or device specified by PRINTER keyword.  
**LOCAL** *(fieldname)* *(type)* *(width)**{dec}**[C:]*: defines a LOCAL variable (up to a maximum of 17).  
*type:* C=character, X=Hex, N=numeric, D=date, *dec*=# of decimal places.  
*"C"* in last place makes LOCAL permanent until CLEAR LOCAL or re-boot.  
**MEMORY:** displays data on available memory.  
**MODIFY STRUCTURE:** allows changes to current DataBase structure and fieldnames. DO NOT CHANGE RECORD SIZE or existing data will be destroyed. See CONVERT.  
**MODIFY COMMAND** *(filename)* *[D:]*: allows creation and editing of command files.  
**MOVE** *{+/- n}* *[S:]*: moves the DataBase one (or *(n)*) record(s).  
**PACK** *[P]* *[S:]*: permanently removes DELETED records from DataBase.  
**PRINT** *[n.S:]*: see DISPLAY. Data will be sent to device specified by SET PRINTER keyword. Will not print status or structure.  
**PRINTER** *(printrname)* *[P:]*: will activate printer control codes for *(printrname)*.

**QUIT:** CLOSEs all DataBases and exits TI-BASE.  
**READ** *(I)* *(c)* *(variable)* *[C:]*: positions cursor at line *(I)*, column *(c)* and waits for input, which is assigned to *(variable)*, which may be LOCAL or fieldname. All numeric variables need space for sign. Enclose all Character strings in quotes or use READSTRING instead.  
**READSTRING** *(I)* *(c)* *(variable)**[C:]*: reads in character strings without need for quotes. See READ.  
**RECALL** *(n)* *[S:]*: un-deletes current (or *(n)*th) record previously DELETED.  
**RECOVER** *[P:]*: rebuilds contaminated index; not for corrupted data files.  
**REPLACE** *{(n.)fieldname}* **WITH** *(expression #1)* *{;FOR (expression #2)}*: similar to LET in BASIC. *(expression #1)* may use any LITERAL ("character string" with optional TRIM), fieldname, LOCAL, or math. Use *{(n.)a}* if variable is in different DataBase slot. Optional *{;FOR (expression #2)}* will REPLACE only if *(expression #2)* is true.  
**RETURN** *[C:]*: returns from COMMAND file.  
**SCROLL** *(n1)* *(n2)*: moves lines *n1-n2* up one line, or down if *n1>n2*.  
**SELECT** *(n)*: changes active DataBase slot to *(n)*.  
**SET** *(keyword)**{=}**(value)*: modifies status table entries; DISPLAY STATUS to check.  
**SNAP:** dumps current screen display to printer or device specified by PRINTER keyword.  
**SORT ON** *(fieldname {list})* *[S:]*: sorts DataBase on field *(fieldname)* in ascending order. Optional *{list}* allows sorting to 8 levels. Also UNDELETES records DELETED since last PACK.  
**SORT OFF** *[S:]*: Used to retrieve DataBase in order of entry. Also good for APPENDING to large DataBases.  
**SUM** *(fieldname)* *{;FOR (expression)}* *[S:]*: adds up numeric *(fieldname)* in all records, and displays result on next screen line. If *{;FOR (expression)}* is used, only those records where *(expression)* is true will be SUMmed.  
**TOP** *[S:]*: positions DataBase to first logical record.  
**TRACE** *(ON/OFF):* when on, each executable COMMAND FILE line will be printed to printer or device specified by SET PRINTER keyword.  
**USE** *(filename)* *[D]* *[S:]*: activates DataBase *(filename)* in the current slot which must be empty.  
**WAIT** *(n)* *[\*]* *[C:]*: suspends processing *(n)*.seconds. *[FN]* *[9]* will skip remaining WAIT time.  
**WHILE** *(expression)* *[C:]*: if *(expression)* is TRUE, statements that follow will be executed. Must be followed by ENDWHILE.  
**WRITE** *(I)* *(c)* *(expression)*: writes *(expression)* at line *(I)*, column *(c)*. If *(expression)* is Character string, enclose in quotes.