

# SynCalc™

## SynCalc Reference Guide

### LOAD/SAVE SUB-MENU

- Load Wrksheet** (/LLW cell filespec.) Load the selected worksheet file (filespec.) starting at the specified location (cell).
- Load Data** (/LLD order operation cell filespec.) Load the selected DIF data file (filespec.) starting at the specified location (cell) in the given order (order) performing the selected operation.
- Order** R for row  
C for column
- Operation** O for overlay  
+ for add  
- for subtract  
\* for multiply  
/ for divide
- Save Wrksheet** (/LSW filespec.) Save current worksheet to the specified file (filespec.).
- Save Data** (/LSD order range filespec.) Save the cells in the selected range to the file (filespec.) as a DIF file in the order given.
- Order** R for row  
C for column
- Save Text** (/LST range filespec.) Save the selected range to the file (filespec.) as a text file for merging with AtariWriter.™
- Format Disk** (/LFD drive number:) Format disk in selected drive.
- Delete File** (/LD filetype filespec.) Delete selected file from disk.

**FileType** W for worksheet (.SC)  
D for DIF data (.DIF)  
T for text (.TXT)

**Rename File** (/LR filetype, old file spec., new filespec.)  
Rename old file spec of selected filetype to new filespec.

**FileType** W for worksheet (.SC)  
D for DIF data (.DIF)  
T for text (.TXT)

**VC → SC** Load VisiCalc to SynCalc conversion utility.

## ***Text Entry Window***

Enter or edit any text entry. The small vertical mark at the top of the window indicates the last character position in the current column.

## ***Numeric Entry Window***

Enter or edit any numeric or formula entry. A green window indicates cell point mode while a blue window indicates formula edit mode. The ATARI logo or inverse video key will toggle between the two modes. Press **OPTION** or **SELECT** to view the two function reference screens.

## ***Command Sub-Menu***

**Format Justify Left** (/FL range)  
Left justify selected cells.

**Format Justify Center** (/FC range)  
Center selected cells.

**Format Justify Right** (/FR range)  
Right justify selected cells.

**Format Margin** (/FM value range)  
Reserve a number of character positions (value) in the selected cells (range).

**Format Protect** (/F type range)  
Protect the selected cells from the operation (type) specified.

**Type** V for protect values from recal.  
O to override entry.

**Format Dollars**      Display leading dollar sign (\$) in selected cells.  
(/F\$ range)

**Format Commas**      Display large numbers with commas inserted every  
(/F, range)            three digits to the left of the decimal place.

**Format Percent**      Display selected cells as values multiplied by 100  
(/F% range)            and with a trailing percent sign (%).

**Format Precision**    Sets the number of digits to the right of the decimal  
(/FP value range)      point to display in the selected cells.

**Format Number**      Set the number types for the selected cells (range).  
(/F type range)

**Type**      . for fixed  
                F for floating  
                S for scientific  
                E for engineering

**Format Sign**          Set the method for displaying negative numbers for  
(/F type range)        the selected cells.

**Type**      – for leading minus sign  
                ( for parentheses  
                D for DR/CR

**Global Format**        Format all cells not individually formatted.  
(/FG type)

**Type**      L for left justified  
                C for centered  
                R for right justified  
                M value for margin  
                V to protect values  
                O to override entry  
                \$ for dollar sign  
                , for comma insertion  
                % for percents  
                P value for precision  
                . for fixed  
                F for floating  
                S for scientific  
                E for engineering

**Continued On Reverse Side**

**Type** – for leading minus sign  
( for parentheses  
D for DR/CR

**Global Unformat** Unformat all cells not formatted individually.  
(/FUW value)

**Type** \$ for dollars  
, for comma insertion  
V for protect values  
O for override entry  
% for percents

**Global Width** Set all column widths not individually set  
(/FGW value) (1 to 36 characters).

**Global Erase** Erase entire worksheet.  
(/E#)

**Global Recalc** Set recalculation parameters.  
(/R type)

**Type**  for normal recalc  
F for forced recalc  
A for automatic  
M for manual  
C for column priority  
R for row priority

**Global Txt Mode** Set the text mode for the worksheet.  
(/Type)

**Type** O for overflow mode  
B for bounded mode

**Width** Set the columns specified (range) to the width given  
(/FW value range) (value) which can be 1 to 36 characters.

**Unformat** Unformat the selected cells .  
(/FU type range)

**Type** \$ for dollars  
, for comma insertion  
V for protect value  
O for override entry  
% for percents

**Copy** Copy contents and formats of cells in source range to destination range.  
(/C source destination)

<b>If source is:</b>	<b>Destination can be:</b>
one cell	a row or column segment
a row segment	a block of rows
a column segment	a block of columns

**Move** Move the block of cells (source) to the block of cells whose upper-left corner is specified (cell) without changing cell references.  
(/M source cell)

**Insert** Insert row (R) or column (C) at specified location.  
(/I type location)

**Delete** Delete row (R) or column (C) at specified location.  
(/D type location)

**Erase** Erase specified cells.  
(/E range)

**Goto** Jump cursor to specified cell.  
(/G cell)

**Print** Print the selected cells to the printer.  
(/P type range)

**Type** W for worksheet  
C for contents

**Sort** Sort the rows in the source range based on the sort column in ascending (A) or descending (D) order and place at the block of cells whose upper-left cell is given (cell).  
(/S type source sortcolumn targetcell)

**Window** Create a window at the specified location.  
(/W type synch location)

**Type** RETURN for single  
V for vertical  
H for horizontal

**Synch** S for synched  
I for independent

**Location** Any valid cell pointed to with the cursor

**Titles** Fix titles at selected location.  
(/T type location)

**Type**  for cancel titles  
V for vertical  
H for horizontal  
B for both

**Location** Any valid cell pointed to with the cursor

**Headings** Toggle the column and row headings on and off.  
(/H)

**Use Lbls** Declare the row and column intersecting at the  
(/U cell) specified cell (cell) as the label row and column. Cells  
can then be referenced using labels in this row and  
column separated by an underline ( ).

## Built-In Functions

### Mathematical

@ABS(x) Absolute value of x  
@ACOS(x) Arc cosine of x  
@ASIN(x) Arc sine of x  
@ATAN(x) Arc tangent of x  
@COS(x) Cosine of x radians  
@EXP(x) e to the x power  
@INT(x) Integer portion of x  
@LN(x) Natural log of x  
@LOG(x) Common log of x  
@PI Pi  $\pi$   
@SIN(x) Sine of x radians  
@SQRT(x) Square root of x  
@TAN(x) Tangent of x radians

### Logical function

@If condition THENx Value of x if condition is true, value of y if condition is  
ELSEy false. Condition can contain AND, or OR, or NOT

### Special functions

@LOOKUP Lookup table  
(S,range,offset)

### Financial functions

(@ FV (payment, interest, term)	Future value of an annuity
(@ NPV (range, interest)	Net present value
(@ PMT (principal, interest, term)	Loan payment

### Statistical Functions

(@ AVG (range)	Average
(@ CNT (range)	Count of numeric entries
(@ MAX (range)	Maximum value
(@ MEAN (range)	Sample mean
(@ MIN (range)	Minimum value
(@ SD (range)	Sample standard deviation
(@ SUM (range)	Sum
(@ VAR (range)	Sample variance

## Special Keys

START	Recalculate worksheet
#	Entire worksheet
!	Bottom-right cell
;	Current cursor position
ESC	Exit operation