

BUILT-IN FUNCTIONS

Arithmetic Functions

ABS(V) Absolute value
ATAN(V) Arc Tangent
COS(V) Cosine
EV Natural log constant
EXP(V) Exponential value
FACT(V) Factorial value
FRACT(V) Fraction of value
INV(V) Integer value
LN(V) Natural logarithm
LOG(V) Base 10 logarithm
MOD(V₁, V₂) Modulus
PI Pi
SCALE(V,n) Significant digits used
SIN(V) Sine
SQRT(V) Square root

Business Functions

Depreciation:
DDB(C,V,L,R) Declining balance
DSLC(C,V,L,S) Straight line
DSYD(C,V,L,S) Sum of years' digits
Loans:
FV(PV,I,N) Future value
LOAN(P,I,N,A) Calculate parameters
PV(F,I,N) Present value
SINKF(F,I,N,A) Sinking fund parameters

Date Functions

DOM(V) Extracts day of month
DOW(V) Extracts day of week
NUMD(M,D,Y) Numerical date value
MONTH(V) Extracts month
TODAY Current date
YEAR(V) Extracts year

Logical Functions

ERR Displays 'err'
FINDC(V,.range) Column where "X" is true
FINDR(V,.range) Row where "X" is true
IF(V,V_t,V_f) Acts based on truth value
SEL(V,V₁,V₂,...V_n) Selects based on truth value

Looping Functions

ADD(V,.range) Evaluates formula over range; returns sum
DO(V₁,V₂,...V_n) Performs multiple calculations
ITER(n,expr) Recalculates 'n' times
PUTR(V,.range) Puts value in range; returns sum
WHILE(V,V_t) While/Do function

Referential Functions

CC Current column number
COL Column being evaluated
CR Current row number
GET(V,.sheet) Retrieves stored values
GET(V) Retrieves current values
GET(V,#) Consolidates values
NCOL Number of sheet columns
NROW Number of sheet rows
PUTV(V,.cell) Puts value in remote cell
ROW Row being evaluated
VALUE Value of cell being evaluated

Register Functions

ADDR(reg,V) Adds value to register
CLRR Clears registers to 0
LOAD(reg,V) Loads value into register
UNL(reg) Unloads value from register

Statistical Functions

AVG(range) Averages a range
COUNT(range) Counts non-blank cells
MAX(range) Largest value
MIN(range) Smallest value
PROJ(S,P,Y) Projects line-point value
SLOPE(range) Linear regression
STD(range) Standard deviation
STDE(range) Standard error
SUM(range) Total
VAR(range) Variance

Text Functions

CMPT(T₁,relap,T₂) Compares text
CONCAT(cell,T₁,T₂,...T_n) Concatenates text
COPYT(T,.cell) Copies text
LEN(T) Length of text string
POS(T₁,T₂,V) Position of text substring
MID(cell,T,start,sublen) Retrieves text segment
SEG(cell,T,start,stop) Retrieves text segment

User-Defined Functions

ARG(n) Labels function argument
NARG Returns number of arguments

SATURN-CALC

Electronic Spreadsheet

Quick Reference Card



SATURN SYSTEMS, INC.

6875 Washington Ave. S.
Minneapolis, MN 55435
(612) 944-2452, (800) 328-6145
Telex 290322, Saturn Edna



SATURN SYSTEMS, INC.

COMMANDS

/A	APPLY	Applies formula to a range
/B	BLANK	Blanks a range
/C	COPY	Copies a range
/D	DELETE	Erases a range
/E	EDIT	Edits text or formula
/F	FORMAT	Formats cells
	\$	dollars/cents
	%	percent
	C	column width
	D	date formats
	E	exponential
	F	decimal
	G	graphics
/G	GLOBAL	Sets default conditions
	A	auto-motion
	B	between
	C	column spacing
	D	display cell
		recalc iteration
		recalc order
		recalc mode
		scale
		screen width
		references
/I	INSERT	Insert rows or columns
/M	MOVE	Stored data retrieval
/N	NAME	Name row, column or cell
/O	ORDER	Automatic sort
/P	PRINT	Print sheet portions
/R	REWRAP	Rejustify text margins
/S	STORE	Storage functions
	W	write sheet
		load fixed-record files
	R	read in sheet
	C	command file
	O	execution
		A auto-consolidate
		command file
/T	TITLE LOCK	Freeze titles on screen
/V	VALUES	Display spreadsheet parameters
/W	WINDOW	Split screen display & scroll
/X	EXIT	Exit the spreadsheet
/Z	ZAP	Initialize new spreadsheet

CALC COMMAND LANGUAGE

Program Flow & Control Commands

LABEL	Names branch or subroutine
LABEL	Go to branch location
GOTO label	Go to branch location
ONGOTO expr, label ₁ , label ₂ ,...label _n	Computed go to branch
GOSUB label	Go to subroutine
RETURN	Return from subroutine
ONGOSUB expr, label ₁ , label ₂ ,...label _n	Computed go to subroutine
IF\expr\command(s)\ENDIF	Execute commands if expression is true
IF\expr\command(s)\ELSE\command(s)\ENDIF	Execute commands if expression is true; else do alternate commands
IF\expr\THEN command	Single-statement IF
REPEAT\command(s)\UNTIL\expr	Repeat commands until expression is true
MARK\command(s)\RESTORE	Program loop function
ONERROR label	On error go to
DO expr	Execute sheet commands
STOP	Stop program execution
ENTFLG	Test for data terminator
TTIN	Pause for terminal input

Cursor Addressing Commands

HOME	Move to home position
DOWN	Move down one row
UP	Move up one row
CR	Carriage return
col, row	Address column and row
#colexpr,rowexpr	Computed cursor addressing

Display Commands

CEOS	Clear to end of screen
CEOL	Clear to end of line
SCREEN	Refresh screen display
ROWS n	Display "n" sheet rows
DISPLAY "Text"	
DISPLAY cell	
DISPLAY cell, width	
DISPLAY cell,-1	
DISPLAY #expr, cell, width	Display text on screen
CDISP "Text"	
CDISP cell	

CDISP cell, width

CDISP cell,-1

CDISP #expr, cell, width

Aligned text display

REYON Turn on reverse video

REVOFF Turn off reverse video

BEEP Causes terminal to beep

DISABLE option₁,option₂,...option_n Turns off special options

ENABLE option₁,option₂,...option_n Turns on special options

(DISABLE/ENABLE options: ABORT, BORDER, COMMANDS, DEBUG, ECHO, QUIET, TOP, UNDER)

PASS V₁,V₂,...V_n Send ASCII characters to terminal

BOX width,height Draw a box

HLINE width Draw horizontal line

VLINE length Draw vertical line

Data Entry Commands

ENTER cell

ENTER cell, width

ENTER cell,-width

ENTER "prompt",cell,width (or -width) Enter data into sheet

EDIT cell Edit text

EDIT "prompt", cell Edit text

WENTER cell WENTER cell

WENTER cell,width

WENTER cell,-width

WENTER "prompt",cell,width (or -width) Enter wordwrapped text

USE cell

USE cell,width

USE cell,-1

USE #expr,cell,width Use cell entry in command

Output File Commands

OPEN "filename"

OPEN "device"

OPEN cell Open print file

CLOSE Close print file

PRINT "Text"

PRINT cell

PRINT cell,width

PRINT cell,-1

PRINT #expr,cell,width

EJECT Send data to print file

CRP Issue form feed

SKIP n Print carriage return

SPACE n Skip lines in print file

PASSP V₁,V₂,...V_n Skip spaces in print file

Send ASCII control characters to printer