

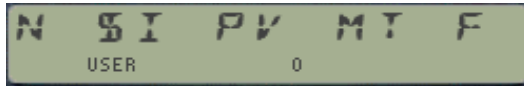
#	Function Name	Description	Input	Output	Source	Author	Type
1	-TVM\$ 1D	Section Header	None	Shows 'RUNNING...'	This project	Ángel Martin	MCODE
2	%T	Total percentage	y inY, x in X	(Y / X) * 100	SandMath	Ángel Martin	MCODE
3	B/E	Begin / End modes	none	Toggles Mode (UF 00)	This project	Ángel Martin	MCODE
4	CORR	Sample Correlation Coefficient	Sample data X,Y	Correlation Coef. In X	SandMath	JM Baillard	MCODE
5	COV	Sample Covariance	Sample data X,Y	Covariance in X.	SandMath	JM Baillard	MCODE
6	D%	Delta Percentual	y inY, x in X	Difference percent	This project	Ángel Martin	MCODE
7	FV\$	Future Value	Inputs / Calculates FV	Inputs / Calculates FV	This project	Ángel Martin	MCODE
8	IS	Interest Rate	Inputs / Calculates I	Inputs / Calculates I	This project	Ángel Martin	MCODE
9	LR	Linear Regression	Sample data X,Y	Y=aX+b - a,b in Y,X	SandMath	JM Baillard	MCODE
10	LRY	LR Y-Value (Intercept)	Sample data X,Y	y value in X	SandMath	JM Baillard	MCODE
11	N\$	Number of Periods	Inputs / Calculates N	Inputs / Calculates N	This project	Ángel Martin	MCODE
12	PMT\$	Periodic Payments	Inputs / Calculates PMT	Inputs / Calculates PMT	This project	Ángel Martin	MCODE
13	PV\$	Present Value	Inputs / Calculates PV	Inputs / Calculates PV	This project	Ángel Martin	MCODE
14	SHOW	Shows PVM Data	none	Enumeration of Values	This project	Ángel Martin	MCODE
15	TVM\$S	TVM Launcher	Prompts for function	Inputs / Calculates Value	This project	Ángel Martin	MCODE
16	-ADV TVM	Section Header	none	none	Advantage	Ángel Martin	MCODE
17	"TVM"	Time Value of Money Driver	none	Shows Menu in Display	Advantage	HP Co.	FOCAL
18	"N"	Number of Periods	Inputs / Calculates N	Inputs / Calculates N	Advantage	HP Co.	FOCAL
19	"PV"	Present Value	Inputs / Calculates PV	Inputs / Calculates PV	Advantage	HP Co.	FOCAL
20	"PMT"	Periodic Payments	Inputs / Calculates PMT	Inputs / Calculates PMT	Advantage	HP Co.	FOCAL
21	"FV"	Future Value	Inputs / Calculates FV	Inputs / Calculates FV	Advantage	HP Co.	FOCAL
22	"*I"	Interest Rate	Inputs / Calculates I	Inputs / Calculates I	Advantage	HP Co.	FOCAL
23	-PPC FIN	Section Header	None	Menu prompt in display	This project	Ángel Martin	MCODE
24	CDAY	Calendar Date	Jul/Greg Day Number in X	MM,DDYYYY date in X	This project	Ángel Martin	MCODE
25	CJ	Calendar to Julian Day	Year, Month, Day in {X,Y,Z}	Jul/Greg Number in X	PPC ROM	Roger Hill	MCODE
26	"CP"	Column Print Formatting	See PPC ROM Manual	See PPC ROM Manual	PPC ROM	W. Cheseman	FOCAL
27	DAYS	Days between Dates	MM,DDYYY Dates in X,Y	Elapsed days in X	Securites Pac	HP Co.	MCODE
28	"FAST"	Initial Estimate for Interest	See PPC ROM Manual	See PPC ROM Manual	PPC ROM	Don Dewey	FOCAL
29	"FI"	Financial Calculations	See PPC ROM Manual	See PPC ROM Manual	PPC ROM	G. Dennes	FOCAL
30	"FIN"	Financial Calculations (Enhanced)	See PPC Article	See PPC Article	PPCJ V10N1 p22	A. G. Hutchins	FOCAL
31	JDAY	Julian Day Number	Date MM,DDYYYY in X	Jul/Greg Number in X	This project	Ángel Martin	MCODE
32	"LPAS"	Loan Payments / Amortization	See PPC ROM Manual	See PPC ROM Manual	PPC ROM	G. Dennes	FOCAL
33	ODD?	Odd number test	number in X	Yes/No, skip line in PRGM	SandMath	Ángel Martin	MCODE

CJ, JDAY and CDAY: Set Flag 00 for Julian Calendar, clear it for Gregorian Calendar dates
 CDAY returns the MM.DDYYY date in X, and the individual Year, Month, Day in {T,Z,Y} respectively

Data Registers.-

Data registers used are compatible across all applications: TVM, FI, FIN, and the MCODE TVM\$

- R01.- N To view their values manually just press RCL and use the top row to input the argument.
- R02.- I An automated alternative is function SHOW, which enumerates them sequentially.
- R03.- PV
- R04.- PMT
- R05.- FV



Note that for TVM\$, a working copy of R01-R05 is made in the stack, and used during the calculations. The final result is stored in the corresponding register and in the X register as well.

Each time one of the five functions is executed it does:

1. Check the status of UF 22 to determine whether it's an input or a calculation action
- 2a. Input the value in X into the corresponding register if UF 22 was set, or
- 2b. Calculate the result value if UF 22 was clear and store it in the data register
3. Show the value in a feedback message if not in PROGM mode
4. Clear UF 22 upon exit

Point 4 above is used to allow "chained" data input or review of several values. For instance, with UF 22 clear pressing each key sequentially will solve for all values again.

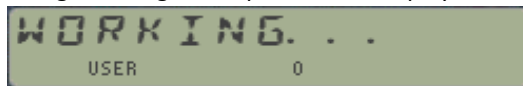
It also means that to input new values you must ensure that UF 22 is set. This requires pressing keys of the numeric pad, i.e. 0-9, Radix, or EEX only. Note that neither CHS, CLX or RCL will activate it, so work around those cases accordingly. Functions B/E and SHOW will also clear UF22 upon exit, consistent with the same scheme.

Key Assignments.

Each time the calculator is switched ON several functions are assigned automatically, as follows:

- TVM\$** [SHIFT] [SHIFT]
- N\$** [SHIFT] [Σ+]
- I\$** [SHIFT] [1/X]
- PV\$** [SHIFT] [SQRT]
- PMT\$** [SHIFT] [LOG]
- FV\$** [SHIFT] [LN]
- B/E** [SHIFT] [X<>Y]
- %T** [SHIFT] [RDN]
- SHOW** [SHIFT] [SIN]
- CDAY** [SHIFT] [COS]
- JDAY** [SHIFT] [TAN]

During the assignment process the display shows:



The automated assignment will only be effective if the target key is not already assigned to a function. You can use CLKEYS to wipe out previous assignments.

Using the SHIFTed keys is compatible with the soft-keys used in the FOCAL counterparts, so you can use them interchangeably to compare speed and accuracy.