

# WEST JAX 99ER NEWS



DEDICATED TO THE TI-99/4A

NOVEMBER 1987

#30

The West Jax 99'ers is a non-profit computer users group for the TI99 Home Computer. (Not affiliated in any way with Texas Instruments.) The club's mailing address is PO BOX 176, Orange Park, FL 32067

MEETINGS - Second Tues. of every month at the Webb Library, two lights west of Blanding on 103rd Street. Workshop time on the club computer begins at 6 PM, business meeting at 7 PM, more workshop time afterwards. Visitors are welcome to attend and find out more about the club activities and library. A second meeting of strictly workshop time is held on the Fourth Tuesday of the month beginning at 6PM.

- |                      |           |                |                |
|----------------------|-----------|----------------|----------------|
| OFFICERS             | President | Rick Felzien   | (904) 772-9162 |
|                      | Treasurer | Thomas LeMay   | (904) 282-5220 |
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| EXCALIBUR IBM/PC BBS |           | Jim Hutchison  | (904) 751-3970 |
|                      |           | (Sysop)        |                |
|                      |           | Richard Barton |                |
|                      |           | (TIUS Sysop)   |                |

For newsletter submissions and suggestions, contact Rick Felzien.

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This month I have done another Mailbox page and have included another article on TI-MULTILPLAN.

There is also an article taken from the Dallas 99 Ingerface group which shows how to speed up speech access.

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BY  
RICK FELZIEN

WEST OHIO 99ER NEWS

1. Character design make easy
2. Cheat routine for TI Runner

QB MONITOR NEWSLETTER

1. Forthward Ho
2. New Languages?
3. Memo print program

LITI LONG ISLAND

1. Programming music
2. Imaginative programming
3. Programs that write programs
4. List of CALL LOADs

NET 99ER NEWS

1. TI-Writer problems
2. Install EXBASIC in console

BYTE-LINE DECATUR IL.

1. On disk controllers
2. Figure baseball percentages

KC 99ER CONNECTION

1. Assembly Language tutorial

DELAWARE VALLEY USERS GROUP

1. Extended Basic Programming
2. Error check for XB command mode

TACOMA 99ER NEWSLETTER

1. Magnetic media defects

THE COMPUTER BRIDGE ST. LOUIS

1. Automated address book
2. On SUPERBASIC (Review)

UPPER PINELLAS 99ER

1. FAST-TERM overlay
2. The TI Forth dimension

SPIRIT OF 99 COLUMBUS OH.

1. ExBasic Subroutine addresses
2. TI-Writer tutorial

CHICAGO TIMES NEWSLETTER (Aug)

1. Review of the GENIVE
2. Practical programming

THE OTTOWA 99ER NEWSLETTER

1. Speeding up ExBasic

PARIS 99ER NEWS

1. Keyboard Teacher program

R/D COMPUTING ONTARIO (Mar)

1. Introduction to c99
2. BK DSR RAM project

WEST PENN NEWSLETTER

1. ight pen and Tic-Tac program
2. TI Writer tutorial

N.O.V.A. NEWSLETTER

1. Programming by Jim Peterson

VAST 99ER NEWSLETTER

1. Assembly tutorial by Steve Royce

TITEX HICKSVILLE N.Y.

2. Review of FONTWRITER II

CHICAGO TIMES NEWSLETTER

1. A SPAD adventure
2. High resolution graphics

TI-MULTIPLAN  
(Using Tables)  
By  
Rick Felzien  
West Jax 99ers

There is a very nice feature in the Multiplan package that many of us never have occasion to discover, but is a very helpful feature. This is the ability of Multiplan to use Tables in much the same manner that a regular program uses a look up table.

Before we get into our template, we must understand that we will be dealing with rectangular areas. The smallest rectangular area is the cell (R1C1) row 1, column 1. A typical multi-cell area would be (R1C1:R5C4) from row 1, column 1 to row 5, column 4. We will also be assigning job numbers to our tasks as this will allow us to only enter the date and a number, and then let Multiplan do the work for us.

For the purposes of this article we will assume that we are the owner of a television repair shop and would like to automate our process for submitting job estimates. The values in this article do not in any way reflect the actual prices of any business, but were taken off the top of my head for the purpose of demonstration. I have included a sample of our template for reference as we go along.

First we will want to set up our table of common jobs that are usually the same in most cases. We will also want to include our hourly rate and estimated parts prices in order for Multiplan to calculate a realistic estimate. Once the variables and date are entered and the calculations done the estimate can then be sent to a printer for a nice and orderly estimate format.

After we load our Multiplan lets define our areas to start with. Place the cell pointer (cursor) at R1C2, hit F)ormat and W)idth, and enter R1C2:R23C2, 15 for width then ENTER. Now select ALPHA and type in ABC TV, which is the name of our business. R2C2 should be the address so type in 123 ANYSTREET, and on R3C2 enter ANYCITY, USA, and then on R4C2 the zip code 12345. Now go to the next column and on line one type in CURRENT and in the next column on line one enter RATE IS. In this same column on the next line enter PER HR. Now on the same line in the previous column (R2C3) hit F)ormat, C)ells and enter R2C3, CTRL ^ D)ecimal, and in the next field enter \$) and in the next 2 for decimal places. In this cell we can enter \$25.00 as Alpha value. Now that you are becoming familiar with entering the defaults in a few areas I will only state what to enter and not bore you with the step-by-step description. Just remember that to advance to another area of a multi-default option, use CTRL A and if you discover a wrong entry use CTRL = to escape and select the option again.

Now we want to go to R7C2 and type in REPAIR ESTIMATE and at R7C3 DATE. Now go to R9C1 and Format R9C1:R23C1 to Gen and C)enter and Gen. Now type in JOB# and go to R9C2 and type in DESCRIPTION and at R9C3 enter AMOUNT, and format R10C3:R15C3 to D)ec. Dollar, and 2 dec. We also want to name R9C3:R14C3 as AMOUNT. Next enter at R13C2, TOTAL. Go to R19C1 and enter the N)ame option and use TABLE as this will be our look-up table, and refer it to R19C1:R23C4. Now at R17C2 enter JOB and at R18C1, TABLE:.

At R18C2 enter DESCRIPTION and at R18C3, PARTS, and at R18C4, HOURS. Now enter th following: in column 1, Rows 19 through 23, the numbers one thru five. In column 2 enter REPLACE CRT, REPLACE FLYBACK, REPLACE YOKE, GEN.ADJUSTMENT, ALIGN COLOR, respectively. In column 3 enter 215.95, 67.95, 72.95, 2.00, 1.00, respectively. Next in column 4 enter 2.00, 1.50, 1.00, .75, .50 respectively.

Now lets enter our formulas for the calculations. First we need to name R2C3 to be RATE. Now we need to go to R15C3 and hit the equal sign and then enter our formula to totalize the amounts. This is done by entering SUM(AMOUNT). At R10C3 hit equals and enter INDEX(TABLE,RC[-2],3)+INDEX(TABLE,RC[-2],4)\*RATE. We only want to do the one row for now so that the printed estimate won't have a column of REF! entries for unused formula values. If we have more than one of our jobs on the estimate, we can use C)opy and D)own for the number of rows that we need at the time we are filling it out for an estimate.

Before saving the template, I recommend moving the cursor to R7C4 so that when you load it the cursor will be at that point and you can go from there. Now let's try it out. Enter the current date and then at R10C1 enter 1 and on row 2 enter 4 and on row 3 enter 5. Now hit Recalculate and see what happens, it should print the descriptions and values in the right places. If not go back and recheck your work. Now select P)rint and O)ptions and set the print field for R1C1:R15C4 and then select printer. You should now get a printout of just your estimate.

WANTED: TI Securities Analysis Module PHM3012.

FOR SALE OR TRADE: Expansion Box, plus other items & Software.

Don Weber (904) 398-8918

1            1                    2                    3                    4  
2            ABC TV REPAIR    CURRENT RATE IS  
3            123 ANYSTRET    \$25.00 PER HR.  
4            ANYCITY, USA  
5            12345

7            REPAIR ESTIMATE    DATE    11/3/87

9 JOB#	DESCRIPTION	AMOUNT
10	1 REPLACE CRT	\$265.95
11	4 GEN. ADJUSTMENT	\$18.75
12	5 ALIGN COLOR	\$12.50
13		
14		
15	TOTAL	\$297.20

17 JOB	DESCRIPTION	PARTS	HOURS
18 TABLE:			
19	1 REPLACE CRT	\$215.95	2.00
20	2 REPLACE FLYBACK	\$67.95	1.50
21	3 REPLACE YOKE	\$72.95	1.00
22	4 GEN. ADJUSTMENT	\$0.00	0.75
23	5 ALIGN COLOR	\$0.00	0.50

ABC TV REPAIR    CURRENT RATE IS  
123 ANYSTRET    \$25.00 PER HR.  
ANYCITY, USA  
12345

REPAIR ESTIMATE    DATE    11/3/87

JOB#	DESCRIPTION	AMOUNT
	1 REPLACE CRT	\$265.95
	2 REPLACE FLYBACK	\$105.45
	4 GEN. ADJUSTMENT	\$18.75
	5 ALIGN COLOR	\$12.50
	TOTAL	\$402.65



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360 GOTO 370
370 CALL TITLE :: CALL CLEAR :: GOTO 410
380 DISPLAY AT(12,2)ERASE ALL:"YOU HAVE CREATED AN ERROR" :: GOTO 410
390 CALL TITLE
400 DISPLAY AT(12,2)ERASE ALL:"ENTER 1 FOR AUTO DISPLAY"
410 DISPLAY AT(13,2):"ENTER 2 TO STEP THROUGH"
420 DISPLAY AT(14,2):"ENTER 3 CATALOG DISK"
430 ACCEPT VALIDATE("123"):K$ :: IF K$="1" THEN 460 ELSE 440
440 IF K$="2" THEN 460 ELSE 450
450 IF K$="3" THEN 530 ELSE 400
460 CALL LOAD(10086,69,32,19,3,2,12R,101,32,22,241)
470 GOTO 490
480 GOTO 590
490 DISPLAY AT(24,2)ERASE ALL:"PICTURES IN DRIVE #"
500 DISPLAY AT(14,2):"PRESS 'E' TO GO " :: DISPLAY AT(15,2):"TO NEXT PICTURE" ::
ACCEPT AT(24,21)VALIDATE("1234")SIZE(1):C$
510 C=VAL(C$):: CALL LOAD(-3550,C)
520 CALL CLEAR :: GOTO 400
530 DISPLAY AT(24,2)ERASE ALL:"CATALOG DRIVE #" :: ACCEPT AT(24,17)SIZE(1):C$
540 DISPLAY AT(23,2)ERASE ALL:"CATALOGING DISK #"&C$
550 OPEN #1:"DSK"&C$&".",RELATIVE,INTERNAL,INPUT,FIXED
560 FOR I=1 TO 127 :: INPUT #1,REC I:B$ :: IF B$="" THEN 580
570 PRINT I;B$ :: NEXT I
580 CLOSE #1 :: FOR W=1 TO 500 :: NEXT W :: GOTO 400
590 CALL LOAD(10086,0,255,22,0,4,32,242,80,16,0)
600 DISPLAY AT(15,2)ERASE ALL:"PICTURES ARE IN DRIVE # "
610 ACCEPT AT(15,25)VALIDATE("1234")SIZE(1):C$
620 DISPLAY AT(15,2)ERASE ALL:"ENTER A NUMBER BETWEEN":" ONE AND NINE "
630 DISPLAY AT(17,2):"THIS WILL VARY LENGTH OF":" TIME PICTURE IS SHOWN"
640 ACCEPT AT(24,21)VALIDATE(DIGIT)SIZE(1):N$
650 N=VAL(N$):: CALL LOAD(-3486,0,(N*10))
660 CALL CLEAR
670 C=VAL(C$):: CALL LOAD(-3550,C)
680 REM
690 OPEN #1:"DSK"&C$&".",RELATIVE,INTERNAL,INPUT,FIXED
700 CALL PEEK(-3550,C):: C$=STR$(C)
710 CALL SCREEN(16):: FOR L=1 TO 14 :: CALL COLOR(L,5,15):: NEXT L
720 CALL SCREEN(16):: INPUT #1:B$,E,F,G :: IF LEN(B$)=0 THEN 750 :: IF POS(B$,"_
P",1)=LEN(B$)-1 THEN 730 ELSE 740
730 CALL LINK("GLOAD","DSK"&C$&"."&B$):: CALL LINK("SHOW")
740 GOTO 700
750 CLOSE #1
760 GOTO 400
770 END
780 SUB TITLE
790 CALL SCREEN(3):: FOR L=1 TO 14 :: CALL COLOR(L,3,16)
800 NEXT L
810 DISPLAY AT(12,8)ERASE ALL:"PICTURE SHOW"
820 DISPLAY AT(14,13):"BY"
830 DISPLAY AT(16,7):"RICHARD CORDER"
840 FOR DELAY=1 TO 2000
850 NEXT DELAY
860 CALL CHARSET
870 SUBEND

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