SGV 99/4 USERS' GROUP PRINTOUT USERS' DA SOLUTION OF THE SOLUT

PUBLISHED BY THE SAN GABRIEL VALLEY 99/4 USERS GROUP

RESULTS OF THE SURVE

Well. the results of the surveys are compiled for the equipment section. The breakdown is:

4A console: 4 console: Recorder: P-Box: Memory Exp: 95232: Disk Drive: Printer: Monitor: Joysticks: Speech: P-Code: XBASIC: MiniMem: TEII: E/A: TI Writer: MultiPlan: Logo (II): Adventure: Speech Ed.:	41 2 38 27 23 27 21 13 35 33 4 29 10 26 20 13 11 18 8	(rest	have	TV)
FORTH:	21			

The response rate was good, about 45%, which is very high for surveys of this type. The length of ownership corresponds to the amount of equipment owned; the most recent owners have the least amount of equipment. One person did not have any storage device yet, just the console and a TV, another was well on the way to two complete systems. Those who were just starting out want help with all facets of computing with the TI/4A; those who have owned a TI for a year or more, wanted help in specific areas, like FORTH or business applications. With our wide range of interests and level of competence, we should be able to start some great SIG's in the next few months.

If you haven't yet filled out a survey, or joined after this survey, ask Sherry for a form.

For those of you who want to start a SIG on the TI-Writer or other word processing programs, see me (Cheryl) at the meeting, July 11, Wednesday.

TI LIVES ON....

According to a recent study done by the Gartner Grup, TI ranked 20th in data processing revenues, compared to Commodore's 13th, Tandy's (Radio Shack) 14th and Apple's 11. IBM was, of course, first. TI lost money from 1982, with a growth rate of -1.0, but the dollars were still impressive: 739 million. MINUTES ...

The Wednesday, June 6 meeting was the first held with two monitor screens. It was much easier to see the demonstrations. Everyone at the meeting was treated to a terrific strudel, compliments of BARRY EDWARDS. Thank you, Barry! Tom discussed Bank of America's new home computer banking system. You need a modem and a RS232 card to hook up. Mike demonstrated programs from the Library plus a few that he'd written. The big hit was Toccata, a music program from Australia. For those who would like to buy it, it's only \$1 from the Library. A free sign up sheet for a new game was passed around. ABout 15 people signed up for KING OF THE CASTLE. If you missed out, see Sherry at the next meeting. The picnic will be on August 18, at the park on the corner of Merced and Walnut, in West Covina. A sign up for the pot luck was passed around. The club will provide the drinks. If you have a speciality, sign up at the July meeting. The July meeting will be held on JULY 11, 1984, NOT JULY 4. We will meet at the W. Covina Library at 6:30 pm. See you there.

### THE LIBRARY ....

We have two book reviews this month. The first is on Free Software for your TI-99/4A, by David & Dorothy Heller. It describes public domain software, how to get in touch with User's groups all over the world, how to start your own UG, and how to start your own Bulletin Board. Sources are given for almost free software and some nice educational resources are listed, too. The publishers plan on doing an update which you can send for and contribute to.

resources are listed, too. The publishers plan on doing an update which you can send for and contribute to. What I especially like were the resources for the Handicapped in the back. Something that I didn't 'now is that II will try to modify a keyboard for anyone who shows need because of a handicap. If you are interested, write to: Texas Instruments

Consumer Relations (/o Tom Shields F O Box 10599 MS 5828 Lubbock, Texas 79408

If you are interested in the book, I'll have it at the next meeting (July 11) for review. The cost is \$8.95, and can be purchased at B. Dalton. If they are out, you can order it, tog.

The second book is TI BASIC Computer Programs for the Home, by Charles D. Sternberg. This was also available at B. Dalton.

As the title suggests, this book is for the home, and involves typing in fairly long programs. The Kitchen section is good, although Planning programs didn't do all that I would have liked. Some of the List programs are a little too much, like the Beer Can Collection program. The book has the advantage of being written for the person just starting out; you need only the basic consolle and a monitor, with a printer optional.

WHO MAKES MODEMET

I came across a listing of modem manufacturers and thought I'd share it with you. The listing is alphabetical and is not meant to rate the modems in any way.

Amdahl Communications Systems 1500 Walnut Ave Marina del Rey, CA 90291 (213) 822-3202

American Datacom 16931 Milliken Ave Irvine, CA 92714 (714) 863-3000

Anderson Jacobsen 521 Charcot Ave San Jose, CA 95131 (408) 263-8520

Avanti Communications Aquidneck Industrial Park Newport, RI 02840 (401) 849-4660

Bizcomp 532 Mercury Drive Sunnyvale, CA 94086 (408) 745-1616

Bo-Sherrel C6133 Niles Blvd Fremont, CA 94536 (415) 792-0354

Canoga Data Systems 21218 Vanowen St Canoga Park, CA 91303 (213) 888-2003

Cermetek 1308 Borregas AVe Sunnyvale, CA 94088 (408) 734-8150

Condesign 751 S Kellogg Ave Goleta, CA 93117 (805) 964-9852

Emulex 1545 Harbor Blvd Costa Mesa, CA 92626 (714) 662-5600

Halcyon Communications 2121 Zanker Road San Jose, CA 95131 (408) 293-9970

Haves Microcomputer Products 1923 Peachtree Industrial Blvd Norcross, GA 30092 (404) 449-8791 MIcom Systems 20151 Nordhoff Ave Chatsworth, CA 91311 (213) 998-8844

Prentice 266 Caspian Drive Sunnyvale, CA 94088 (408) 734-9810

Racal-VAdic 1525 McCarthy Blvd Milipitas, CA 95035 (408) 744-0810

Tek-Com 1887 O'Toole Ave Suite C-103/203 San Jose, CA 95131 (408) 263-7400

Tri-Data 505 E Middlefield Mountain View, CA 94043 (415) 969-3700

Ven-Tel 2342 Walsh AVe Santa Clara, CA 95051 (408) 727-5721

As you can see, I've listed mostly those companies located in Caifornia, with the exception of Hayes and avanti Comm. You can write for free literature and see if there are other modems out there that will fit your budget.

HELPFUL HINTS ...

#1 From a friend in Canada -If you have programs that are too long to run from a disk or you get memory full, try this trick using the mini memory module. Use the BASIC option of the MiniMem and type in:

CALL INIT CALL FILES(1) OLD DSK1. (NAME) SAVE EXPMEM2 CALL LOAD (-31888,63,255) NEW OLD EXPMEM2 CALL INIT RUN PROGRAM -

(The computer must be turned off to reset the drive or use function clear)

CALL LOAD (-31888,55,215) NEW

#2 If you have the TE2 and the Speech Synthesizer, type in list "SPEECH" or list "SPEECH": 150-200. Your program will now speak.

#3 Another TE2 tip: When transitting cassette files through a modem to another TI computer, always select the 8-bit file transfer option. Th 7-bit option will cause the transmission to fail. The

#4 How much memory do you have? XBASIC: 13928 bytes free TEII: 14024 Bytes BASIC: 14536 (no modules) If you have a drive attached, reduce the numbers by 2808. Where can you buy disks at reasonable prices? Not the computer house catalogs! I've found good deals at the Frice Club, which you can join if you work for the telephone company (or any utility), an airline, belong to a credit union or are a schoolteacher. There are other catagories, too that I can't remember. Disks can be had for about \$15 for 10 SDDD. They also carry the Flip and File, and computer paper. Another store is J.K. Gill, which has the Flip and File/10 for \$19.79. This comes in a case and is guaranteed for life. Mike and I returned some that were warped with no questions asked. Personal Computer Workshop in Covina was reasonable for Elephant Head disks, too.

If your computer is in a less than ideal room, a diagnostic disk may be a good idea. They can save money on unnecessary drive repairs and disk replacement, not to mention data loss.

If your disk gets wet, can you save it? If you are lucky. Dry them carefully then carefully clean the disk drive head, following the manufacturer's instructions and submit the disk. If the data doesn't show up on the screen, take out the disk, clean the head again and put the disk in one more time. If the data still doesn't show on the screen, you've lost it.

Remember -

The July meiting is the 11th, at 6:30 pm at the W. Course Library,



WHEN: AUGUST 18, 1984 (SATURDAY) FROM 11 TILL ????? WHERE: WALMORADA PARK (CIPNER OF WALNUT & MERCED IN W. EEVINA)

WHAT TO BRING: YOURSELF, FAMILY & FRIENDS, POTLUCK, THINGS TO SWAP, FRISBEES, BASEBALLS & BATS, GLOVES, VOLLEYBALLS,

THE SGV TI 99'ERS PROVIDE THE SODAS. WE ALL PROVIDE THE FUN!!!!

#### by Hector Santos

The two reasons most often given for using FORTH are its speed of execution and the economy in its utilization of memory. We will examine its speed compared to Console BASIC and Extended BASIC using a benchmark program suggested in the Wycove FORTH Manual. The program solves the following problem:

A board showing a four-digit house number falls and breaks in the middle, leaving two numbers of two digits each. Someone remarks that it must be a lucky number because if you add the two two-digit numbers together and square the result, you get the original four-digit house number. List all the lucky four-digit numbers.

BASIC PROGRAM

100 N=1000 110 FOR X=10 TO 99 120 FOR Y=0 TO 99 130 IF (X+Y)\*(X+Y)<>N THEN 150 140 PRINT N; 150 N=N+1 160 NEXT Y 170 NEXT X

FORTH PROGRAM

: HOUSE#1 1000 100 10 DD 100 0 DD J I + DUP \* OVER = IF DUP . ENDIF 1+ LOOP LOOP DROP :

Console BASIC takes 209.4 seconds to run, Extended BASIC 219.6 seconds, TI FORTH 7.2 seconds, and Wycove FORTH 4.9 seconds. It is apparent that Extended BASIC is not always faster than Console BASIC as most people believe. Both versions of FORTH are fast!

One curious thing is that if you replace (X+Y)\*(X+Y) by  $(X+Y)^2$  in the BASIC program, the run times change. Console BASIC now takes 555.6 seconds (very slow!) and Extended BASIC 244.8 seconds. Extended BASIC runs faster than Console BASIC now, although both run slower than the original program. Apparently, Console BASIC has a very inefficient algorithm for exponential functions.

Why does FORTH run so fast? A big factor is its use of integer, instead of floating-point arithmetic. Pascal takes advantage of the speed of integer arithmetic by letting you declare your variables as either integer or floating-point. Foor BASIC has to use floatingpoint in all its computations. Another product available for the TI-99/4A that has integer arithmetic capability is the SST Expanded BASIC Compiler. It claims to run more than 45 times faster than regular BASIC.

A few days after I ran the benchmark tests, I picked up from the bookstore a copy of Home Computer Magazine (the old 99'er). In the Letters section, reader Woodrow Wilson presented a more efficient program to solve the house numbers program. It is a beautiful and elegant solution. I urge the mathematically-minded among you to follow its logic to fully appreciate its conciseness. The new solution takes only 68 loops compared to 9000 for the original.

## BASIC PROGRAM

100 XHI=INT(SQR(9999)) 110 XLO=INT(SQR(1000))+1 120 FOR X=XLO TO XHI 130 Y=X\*X 140 Z=INT(Y/100) 150 IF (Y-Z\*99)<>X THEN 170 160 FRINT Y; 170 NEXT X The new solution takes only 4.8 seconds to run in Console BASIC and 3.6 seconds in Extended BASIC. Does this mean that BASIC is faster than FORTH? No, because the equivalent FORTH program is:

: HOUSE#2 100 32 DO I DUF 100 \*/ 99 \* I DUF \* SWAF -I = IF I DUF \* . ENDIF LOOF :

The program executes in split-second, 0.6 second in TI FORTH and "too fast to measure" in Wycove FORTH. This shows one thing about benchmark programs. When using them to compare anything, make sure they are equivalent and use the same logic. Otherwise, you could be comparing apples and oranges.

SUMMARY OF RUN TIMES

Original Solution

Improved Solution

Wycove FORTH TI FORTH Console BASIC Extended BASIC

Wycove FORTH TI FORTH

Extended BASIC

Console BASIC

4.9 sec. 7.2 sec. 209.4 sec. 219.6 sec.

"too fast to measure" 0.6 sec. 3.6 sec. 4.8 sec.

AMC Computers July Special - - -Riteman + Printer Original T.I. 4000 PAK PBox 120 CPS Friction/Tractor 32 K memory Disk Control Card -Fits in a briefease 5.R.P. # 399 #5 \$2 \$299 <u>~</u> Disk Drive And, while they last, your choice (1) of several business software programs with purchase of 4000 PAK! AMC Computers (Formerly Adventure Marketing Concepts) 416 E. San Bernardino Rd. Covina CA 91723 (818)967-3828

83870707038,0

140 A3\$="" :: FOR A= TO 3 :: CALL CHARPAT(104+A,A\$):: A3\$=A3\$&A\$ :: NEXT A 150 FOR A= TD 14 STEP Z :: FOR B=@ TO Z :: C=A+B :: E=16+C :: D=58+A/Z :: F=65-A/Z :: CALL HCHAR(23,C,D):: CALL HCHAR(14,C,D):: CALL HCHAR(6,C,D):: CALL HCHAR( 22,E,D:

22,E,D. 160 CALL HCHAR(13,E,D):: CALL HCHAR(5,E,D):: CALL HCHAR(18,C,F):: CALL HCHAR(17, E,F):: CALL HCHAR(10,C,F):: CALL HCHAR(11,E,F):: NEXT B :: NEXT A 170 CALL HCHAR(Z,3,58,28):: CALL VCHAR(@,31,46,72):: CALL VCHAR(@,Z,45,24):: CAL L VCHAR(@,32,45,24) 180 RESTURE 196 :: FOR A=@ TO 5 :: READ C,D,F :: FOR B=@ TO Z :: CALL VCHAR(C,D+ 270 D C CALL VCHAR(C,D)

B, 39+B,F):: NEXT B :: NEXT A 190 DATE 19, 16, 4, 15, 2, 3, 11, 20, 3, 7, 4, 3, 3, 22, 3, 8 200 CALL SPRITE(#8, 92, 7, 150, 40, #2, 72, 8, 152, 120, #3, 76, 11, 110, 96, #4, 80, 9, 120, 232, # 5,88,12,82,32)

210 CALL SPRITE (#6,88,10,82,128,#7,88,4,50,88,#8,140,11,56,232,#9,68,4,17,40,#10

250 CALL SANITE(#15,36,16,0,14,5P, ) 260 CALL KEY( ,K,S):: IF S() THEN GOSUB 390 270 CALL CDINC(#13,#15,13,C):: IF C=-0 THEN 530

280 CALL POSITION (#15, M, N):: IF M>164 THEN GOSUB 370

270 CALL KEY( ,K,S):: IF S(> THEN GOSUB 390 300 CALL CC!\2'#13,#15,17,2);: IF C=-@ THEN 530 310 IF T=\_ THEN IF INT =\1\*5)=@ THEN 450

320 IF T=@ THEN CALL POSITION(#14,0,P):: IF P(20 THEN CALL DELSPRITE(#14):: T=\_

ELSE 330 330 IF T=@ T+E\* CALL COINC(#13,#14,10,C):: IF C=-@ THEN 530 340 IF T=@ THEN TF=-TF :: CALL PAITERN(#14,126+TF)

350 B=B+@ :: IF B=7 THEN B=@ :: BO=BD-100 :: DISPLAY AT(24,10)SIZE(5):BO :: IF B 0= 7-4- 530 ELSE 260 360 1010 260 370 0=1NT(RND#200)+0 :: CALL LOCATE(#11,0,0):: CALL LOCATE(#15,14,0):: CALL KEY(

K,S):: IF S(>\_ THEN GDSUB 390 380 RETURN

390 IF K=68 THEN 610 400 IF K=83 THEN 660 410 IF K=69 THEN 710 420 IF K=74 1-E. 920 430 IF K=88 1-EN 840 440 RETURN 450 H=INT(RND\$5+0):: T=0 :: IF H/Z=INT(H/Z)THEN I=0 ELSE I=-0 460 DN H 60TO 470,480,490,500,510 470 LD=20 :: 60TD 520 480 LD=67 :: 60TD 520 490 LD=83 :: GOTD 520 500 LD=134 :: GOTO 520 510 LD=154 :: GOTO 520 550 CALL SOUND (750,175,0,349,0):: CALL SOUND (700,220,0,440,0):: CALL SOUND (300,2 08.0,415,0):: CALL SOUND (300,247,0,494,0) 560 CALL SOUND (800,175,0,349,0):: CALL DELSPRITE (#13,#14,#15):: B,L,6,E,XZ=@ :: (=168 :: Y=17 :: B0=2500 :: DISPLAY AT(24,10)SIZE(5):BD

This is Modification Koala program in the Library. If you both & ompare. Send un critiques for next new sletter !



570 CALL CHAR(104,A3\$):: IF KDA=\_ THEN 1090 580 CALL SPPITE(#13,104,16,X,Y):: 55TG 250 550 CALL MOTION(#13,10, ) 600 CALL POSITION(#13,KD,KI):: IF KD>172 THEN 530 ELSE 600 610 PR=-PR :: CALL PATTERN(#13,106+PR):: 6=6+0 :: IF 6=3 THEN 6=0 55 JF C(A) FUNCTION 510 IF 6(>@ THEN 640 510 IF L/Z=INT(L/Z)THEN F=@ ELSE F=-@ 640 X=X+F :: F= :: Y=Y+B :: DIR=@ :: IF Y>240 THEN 590 650 CALL LOCATET#13,X,Y):: RETURN 640 PL=-PL :: CALL PATTERN(#13,98+PL):: 6=6-@ :: IF G=\_ THEN G=Z 670 IF 6<>Z THEN 690 ==0 IF L/Z=INT(L/Z) THEN F=-0 ELSE F=0 553 X = X + F :: F = :: Y = Y - B :: DIR = - @ :: IF Y<=7 THEN 590 700 CALL LOCATE(#17, X, Y):: RETURN 710 NB=@ :: DN L 6010 790,800,810,820,830 710 NB=E :: UN L GB10 790,800,810,820,830 720 IF Y<>LL THEN RETURN 730 CALL PATTERN(#13,112):: CALL MOTION(#13,-8, ) 740 CALL POSITICN/#13,V,W):: IF V<=LT-12 THEN X=X-(LB-LT):: CALL MOTION(#13,\_,) :: CALL LOCATE(#13,X,Y):: CALL PATTERN(#13,96):: L=L+@ ELSE 760 750 IF L=6 THEN 1100 ELSE RETURN 760 CALL CDINC(#13,#15,13,C):: IF C=-@ THEN 530 770 IF T=@ THEN CALL CDINC(#13,#14,10,C):: IF C=-@ THEN 530 780 60T0 740 790 LB=178 :: LL=129 :: LT=145 :: IF NB=@ THEN 720 ELSE 860 800 LB=137 :: LL=17 :: LT=112 :: IF NB=@ THEN 720 ELSE 860 810 LB=102 :: LL=161 :: LT=80 :: IF NB=@ THEN 720 ELSE 860 820 LB=76 :: LL=33 :: LT=50 :: IF NB=@ THEN 720 ELSE 860 510 LB=37 :: LL=177 :: LT=16 :: IF NB=0 THEN 720 ELSE 860 840 IF L=8 THEN RETURN 850 NB=\_ :: ON L-@ 60T0 790,800,810,820,830 850 NB= :: UN L-@ BUIU /70,800,810,020,030 50 IF Y<>LL THEN RETURN 57 CALL PATTERN(#13,112):: CALL MOTION(#13,8,) 880 CALL POSITION(#13,V,W):: IF V>=LB-16 THEN X=X+(LB-LT):: CALL NOTION(#13,\_,) 1: CALL LJCATE:#13,X,Y):: CALL PATTERN(#13,104):: L=L-@ :: RETURN 890 CALL CCINC(#13,#15,13,C):: IF C=-@ THEN 530 900 IF T=@ THEN CALL COINC(#13,#14,12,C):: IF C=-@ THEN 530 910 COTD 900 920 SP2=L#Z :: SP1=SP2-1 :: IF DIR=-@ THEN CALL PATTERN(#13,116)ELSE CALL PATTER ₩ #13,120) 1000 IF CO=-@ THEN CALL DELSPRITE(#SP1):: JR=SC :: SC=SC+SP1#50 ELSE CALL DELSPR ITE(#SP2):: JR=SC :: SC=SC+SP2#5: 1010 CALL SOUND (200, 1100, @) :: IF JR (10000 AND SC)10000 THEN SC=SC-10000 :: TN=TN +10000 1020 IF HB=@ THEN RETURN ELSE HB=\_ 1030 DISPLAY AT(24,0)SIZE(5):SC 1040 TALL MDTION(#13,8,\_) 1040 TALL MUTIUN(#13,8,) 1050 IF T=@ THEN CALL CDINC(#13,#14,12,C):: IF C=-@ THEN 530 1060 CALL CDINC(#13,#15,15,C):: IF C=-@ THEN 530 1070 CALL PDSITION(#13,V,W):: IF V(X-3 THEN 1050 ELSE CALL MOTION(#13,\_,\_):: CAL L LOCATE:#13,X,Y) 1080 IF DIR=@ THEN CALL PATTERN(#13,104):: RETURN ELSE CALL PATTERN(#13,96):: RE T IGN 1:4: CALL CLEAR :: CALL CHARSET :: XZ= :: CALL DELSPRITE(ALL):: PRINT "YOUR SCO RE WAS ":SC+TM :: PRINT " DO YOU WANT TO PLAY AGAIN?" :: INPUT A\$ :: IF A\$="Y" O R A\$="YES" THEN CALL CLEAR :: GOTO 20 ELSE STOP 1100 CALL KEY( ,K,S):: IF K=68 THEN GCSUB 610 ELSE 1100 1110 CALL DISTANCE(#13,#12,DIST):: IF DIST>500 THEN 1100 1120 PESTORE 1130 :: FOR SI=@ TO 27 :: READ D,E :: CALL SOUND(150\*D,E,\_):: NEXT SI 1130 DATA 1,294,1,330,1,349,1,392,1,440,1,440,2,440,1,523,1,466,1,440,1,392 1140 DATA 2,440,2,440,1,466,1,392,1,392,1,392,1,440,1,349,1,349,1,349,1,440 1150 DATA 1,392,1,349,1,370,2,294,2,294,8 1160 Y=17 :: X=168 :: BU=2500 :: XZ,L,G,E=@ :: IF SP>30 THEN 200 ELSE SP=SP+Z 1170 GOTO 200 1180 PRINT "KRAZY KUALA":"BY MARK & MATTHEW SMETANA": "ANDOVER NJ. 07821":"1982": 1190 FOR A=@ TO 300 :: NEXT A :: CALL CLEAR :: INPUT "DO YOU WANT INSTRUCTIONS? ":A\$ :: IF A\$="Y" OR A\$="YES" THEN 1200 ELSE KETURN 1200 CALL CLEAR :: PRINT "USE THE ARPCK KEYS TO MOVE THE KOALA BEAR UP TO THE T OPOF THE SCREEN TO SAVE THE BABY FROM THE MONEE"." 1210 PFINT "'S' MOVES YOU LEFT 'D' MOVES YOU RIGHT 'E' MOVES YOU U UP A LADDER 'X' MOVES YOU DOWN A LADDER."

1220 PEINT ".J. M MP TO A.2:D THE E 1230 PRINT "44211 NS OUT. " 1240 PRINT " GOU EY TO BEGIN" 1250 CALL KEY(\_,) KEY(\_,K,S):: SOOD LUC THAT FLIES AD FALLING ROCK S SPEED UP AFTI UCX!! Ξ .⊂ S THEN GRAB CROSS KS. TER EV REI B FRUIT FOR EXTRA S THE SCREEN." MAKE IT TO THE T EVERY SCREEN." **TURN** ELSE 1250 Ę POINTS BEFORE 몄 ITMAKES 품 PRESS BONUS ğ ANY

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# MEMBERSHIP FEES:

Adult Individual: \$15/year Junior Individual: \$10/year Family: \$20/year Sponsor: \$50/year Non-participating: \$ 5/year

A junior is anyone under the age of 18; a non-participating member is someone out of the area who would like to receive the PRINTOUT. For renewing members, look for the asterisk by your name on the mailing label. Send your checks or money orders to: SGV User's Group 1008 Dore Street West Covina, California 91792

#### MEETING PLACES:

Second wednesday of the month for the general meeting JULY ONLY:: West Covina Library at 1601 W. Covina Parkway, off the 10 (San Bernardino Freeway) at 6:30 pm. Second Thursday of the month for classes & library business: Pomona First Federal Savings & Loan at 18220

Second Thursday of the month for classes & library business: Pomona First Federal Savings & Loan at 18220 E. Colima Road; Rowland Heights (Take the Fullerton exit of the 60 freeway) 7:00 pm.

Third Wednesday of the month for the officers' meeting: usually at Cheryl & Mike Young's place, 2438 Nina Street #3, W. Covina. (Off Amar & Temple).

#### \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

SGV 99/4 User's Group 1008 Dore Street W. Covina, CA 91792

President: Tom Fadilla

Vice-President: Bob Roquemore

Treasurer: Floyd Wilson

Secretary & PRINTOUT Editor: Cheryl Ahrens Young

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DEADLINES FOR THE PRINTOUT:

August: July 20, 1984 September: August 22, 1984 October: September 21, 1984

Please mail your articles to:

SGV 99/4 User's Group 1008 Dore Street W. Covina, CA 91792 Attention: Cheryl Young