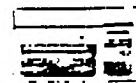


**CENTRAL TEXAS 99-4A****USERS GROUP****THE PAPER PERIPHERAL**

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**From the Editor's Desk**

Greetings and salutations! I would like to announce that the newsletter will be changing to a bi-monthly format, and on the odd months (when no newsletter will be sent) you will receive a postcard reminding you of the meetings for that month.

If it appears that contributions to the newsletter are increasing, then I will make a motion that the newsletter go back to the monthly distribution. But until that time I hope this will work out for everyone.

You will find that the majority of the content of the newsletter will be reprints from other users groups. I hope that the ideas that are found in those other newsletters will be of value to the members of this group.

If you have something that you would like to write an article about just put it on a disk and send it to me. I will be happy to print it. Also, if you have any suggestions of what you feel would be of interest for a newsletter article, let me know and I will see if I can find something printed about it somewhere and reprint it for our group.

Mark Milan  
Editor

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Central Texas 99/4A Users Group  
General Membership Meeting  
January 8, 1987

The January meeting of the Central Texas 99/4A Users Group was held on Thursday, January 8, 1987 at the Commissioner's Court Room of the Travis County Courthouse Annex building. The meeting was called to order at 7:50pm by the President, Joe Pizzi.

The minutes of the November meeting were read by the Secretary, Mike Schultz.

The Treasurer, Paul Dunn, made a treasurer's report.

As the nominating committee never held a meeting and nominated officers, Joe Pizzi requested nominations from the floor. The following members were nominated for the officers of the group: Joe Pizzi, President; Hank Kennedy, Vice President; Paul Dunn, Treasurer; Mike Schultz, Secretary.

Hank Kennedy volunteered to call members and get more member participation. Foley Broaddus volunteered to help.

The officers for 1987 were elected.

Mike Schultz made a motion that the constitution be reworked to reflect the current structure of the group. The motion

was seconded but was turned down by the membership in the vote.

Paul Dunn suggested that the User Group's banking account be moved to somewhere where it isn't going to be charged a monthly fee. He volunteered to do the research.

Hank Kennedy made the suggestion that the group put an ad in the newspaper's classifieds about the group's meetings. This was accepted by the membership as a good idea.

Mark Milam was appointed to be newsletter this year. Hank Kennedy made a motion that the newsletter be made bimonthly to reduce the cost and reduce the strain of getting a monthly newsletter out. Paul Dunn seconded the motion. The motion was amended to include that during off months, cards reminding the membership of the meeting be sent out. The motion was further amended to include that this would continue until membership warrants a monthly newsletter again. The motion passed with one abstention.

Mark Milam moved that an Adventure SIG be formed. There was discussion and it was decided that a motion was not necessary. The Adventure SIG will be held at Mark and Lori Milam's house 2:00 PM on the Sunday following the general membership meeting.

Directions to the Adventure SIG were given out.

There was discussions about the BASIC SIG. It was decided that there just wasn't enough interest to have it and idea was dropped.

The meeting adjourned at 8:55 PM.

Mike Schultz  
Secretary

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The first meeting of the Adventure Sig was held on Sunday, January 11 at Mark and Lori Milam's house. Ken Richter and his children came down from Killeen and Hank Kennedy and his kids were there also. Basically all we did was solve Pirate Adventure and Mystery Fun House. The next meeting will be Sunday, February 15 at my house and will start around 2:00. Bring your own drinks and snacks and we'll see ya then. Call Mark or Lori Milam at 836-3301 if you need directions.

Lori Milam

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#### IBM COMPATIBILITY FOR THE 99/4A

##### Technical Info:

1. Two part system. A TURBO XT and a small bridge box that connects to the side I/O port on your 4A.
2. The TURBO XT is an 8 Mhz, 4.77 Mhz (switchable) mother board, power supply, XT style case, CGA color graphics card (both RGB and Composite), Floppy Disk controller 1 half high DS/DD disk drive, Parallel port and 256K of Ram on the mother board. The mother board has sockets for up to 640K of ram. There are 8 expansion slots, two of which are used by the CGA card and the Floppy disk controller.
3. The bridge box has inputs for 4A Video in, XT Video in and outputs for XT Keyboard out and Monitor out. It also contains the software for Keyboard switching between 4A mode and XT mode and the software to convert the 4A key strokes into XT keycodes. It also has a pass through so you can keep your P-Box or other Periphs hooked up.

4. Mode switching from 4A to XT can be done through Basic or X-Basic with CALL XT or by holding down FCTN CTRL ENTER on power up of the 4A.

5. Mode switching from XT to 4A is done by pressing FCTN CTRL ENTER.

6. The ONLY items shared by the two systems are the 4A keyboard and your current monitor or TV. Yes you can get 80 columns out of a composite monitor, but it is easiest to read with the color turned off in 80 mode. The XT allows MODE 40 which also gives you 40 column mode. Graphics programs, such as games and drawing programs work fine in 80 column and most other software that doesn't combine weird foreground and background text colors are also quite readable.

7. By not sharing the disk drives it is possible to do concurrent processing on the XT. Example: Go into XT mode, start up your COMMUNICATIONS software, log on to a BBS and start a download. Now you can switch modes back to the 4A and do whatever you would like in 4A mode while the XT is still downloading from the BBS!!

8. We have tested this system on a number of 4A system configurations and have found it to be very compatible. Since it is an IBM clone it is also fully compatible with both IBM software and IBM HARDWARE. Yes, you can add ANY IBM cards you would like to the system.

9. The minimum 4A system requirements: A TI 99/4A console and a monitor or a TV set with RF modulator.

#### General Info:

1. This system is being marketed by Triton Products Company in San Francisco, CA. They are also handling the production of the bridge boxes and they have contracted for the Turbo XT clones to their specifications.

2. The system has a 30 DAY money back guarantee and a 1 YEAR parts and labor warranty.

3. The cost for this system (Turbo XT, Bridge box and cables) is \$499.00 plus \$19.90 for shipping and handling.

4. Their toll free number for additional info and/or a 6 page 4- color brochure on this system is 800-227-6900, Monday through Friday - 6AM to 6PM and Saturday 9AM to 4PM, Pacific Time. PLEASE DON'T CALL THEM UNTIL MONDAY, JANUARY 19, 1987 FOR TECHNICAL INFO OR QUESTIONS. You can call before then to get a brochure. The people that answer the phones are going through a training course this week so they won't be able to properly answer your questions until then.

5. Delivery is scheduled to start on March 1st of this year.

We have been using this system for awhile now and we are very pleased with its performance. This isn't vaporware, ALL R&D, testing and software is complete and the units are ready for production, so the March time frame is a reality.

At last, a MAJOR expansion for the 4A. We hope you are as pleased with this product as you have been with our other products in the past. As the Triton Brochure says:

MAKE THE IBM CONNECTION TO YOUR TI99/4A

-----M6-----

#### Who We Are:

We are a non profit organization whose membership is open to anyone interested in the activities of the group. All members pay annual dues of \$15. The membership year is one calendar year from receipt of your dues. You are invited to attend a couple of meetings before deciding if you wish to join.

**OUR MEETINGS:**

Our meetings are on the second Thursday of each month, at 7:30 PM, in the County Courthouse at the corner of 10th and San Antonio, on the second floor. Each meeting starts with club business and is followed by a demonstration or talk. The second meeting of the month is our special interest group, the Assembly Language SIG. Everyone is urged to share information on topics related to the TI 99/4A -- software review, hardware availability, programming tips, etc.

**MEMBERSHIP:**

You may join at any time of the year. Each membership "unit" has one vote in club matters and only one person from a "unit" may hold club office (on the other hand your entire family is invited to serve on club committees and participate at meetings and in meeting planning!). Our bi-monthly newsletter is mailed out the weekend before the meeting to serve as a reminder to attend the meeting. At meetings, you may buy 5 1/4" disks for \$7 each box. We buy these items in bulk quantity and charge cost plus enough to keep several in our library.

**OUR LIBRARY:**

Currently, our library is located at the librarian's house and will be available at each of our meetings. Our library has some 375 programs on disk and tape. Roughly half of the library's programs will run on just the console (some may require joysticks) and most of the others only require the Extended Basic module. We have programs of all types (games, education, scientific, and business and household management) and we poll the membership's interests before obtaining more.

Above all, we are a membership organization. We depend on everyone for directions the group should go and activities we should undertake. Join our group and share your ideas!

Current Officers

<b>President</b>	Joe Pizzi	444-6829
	1300 S.Pleasant Valley Rd., #121, Austin, Texas	78741
<b>Vice President</b>	Hank Kennedy	255-2812
<b>Treasurer</b>	Paul Dunn	258-4308
<b>Secretary</b>	Mike Schultz	835-2377
<b>Librarian/ Newsletter Editor</b>	Mark Milam	836-3301

Correspondence for the group can be sent to:  
the Central Texas 99/4A Users Group  
Box 200246; Austin, Texas 78720.  
or to the address given for the president.

Meetings Calendar

The following is a list of the currently scheduled meetings.

(February 12) (March 12) (April 9) (May 14) (June 11) (July 9) (August 13) (September 10) (October 8) (November 12) (December 10)

The meeting is scheduled to be held in the County Commissioner's Courtroom on the second floor of the Travis County Courthouse annex, which is located at 10th and San Antonio, in Austin Texas.

Meetings start at 7:30 PM and last until they throw us out!

(continued page 7)

REPRINTED FROM LA 44ERS USER GROUP

TOKENIZED COMMAND STORAGE by George F. Steffen

Some of you may have heard that there is a method of using a single key to enter a statement when programming. This is not an advertised feature of the TI 99/4(A) but results from the way TI Basic stores the program. Each statement in the program is stored as a single byte with a value over 127. The list of values and meanings is given below. HEX is the hexadecimal (base 16) value and DEC is the decimal value. Most of those values under 199 are available directly from the keyboard by the use of the Control key along with another key. When in the immediate mode, if you enter a number, the operating system assumes that you wish to enter a Basic line. If the line number is followed by a Basic statement, that statement is converted to its value and stored. If you enter a valid value, the conversion step is not necessary and the value is stored directly. However, if you then LIST the line, the meaning of the statement will be printed. For example, Control and Z equals REM; Control and U equals RANDOMIZE and Control and ; equals PRINT. You can experiment to find other keys which will equate to statements.

TOKENIZED COMMAND STORAGE

HEX	DEC	MEANING	HEX	DEC	MEANING	HEX	DEC	MEANING	HEX	DEC	MEANING
80	128	Note 1	A0	160	CLOSE	C0	192	>	E0	224	MIN *
81	129	ELSE	A1	161	SUB	C1	193	+	E1	225	RPT\$ *
82	130	:: *	A2	162	DISPLAY	C2	194	-	E2	226	Note 1
83	131	! *	A3	163	IMAGE *	C3	195	*	E3	227	Note 1
84	132	IF	A4	164	ACCEPT *	C4	196	/	E4	228	Note 1
85	133	GO	A5	165	ERROR *	C5	197	^	E5	229	Note 1
86	134	GOTO	A6	166	WARNING*	C6	198	Note 1	E6	230	Note 1
87	135	GOSUB	A7	167	SUBEXIT*	C7	199	Note 2	E7	231	Note 1
88	136	RETURN	A8	168	SUBEND *	C8	200	Note 3	E8	232	NUMERIC*
89	137	DEF	A9	169	RUN *	C9	201	Note 4	E9	233	DIGIT *
8A	138	DIM	AA	170	LINPUT *	CA	202	EOF	EA	234	UALPHA *
8B	139	END	AB	171	Note 1	CB	203	ABS	EB	235	SIZE *
8C	140	FOR	AC	172	Note 1	CC	204	ATN	EC	236	ALL *
8D	141	LET	AD	173	Note 1	CD	205	COS	ED	237	USING *
8E	142	BREAK	AE	174	Note 1	CE	206	EXP	EE	238	BEEP *
8F	143	UNBREAK	AF	175	Note 1	CF	207	INT	EF	239	ERASE *
90	144	TRACE	B0	176	THEN	D0	208	LOG	F0	240	AT *
91	145	UNTRACE	B1	177	TO	D1	209	SGN	F1	241	BASE
92	146	INPUT	B2	178	STEP	D2	210	SIN	F2	242	Note 1
93	147	DATA	B3	179	,	D3	211	SQR	F3	243	VARIABLE
94	148	RESTORE	B4	180	;	D4	212	TAN	F4	244	RELATIVE
95	149	RANDOMIZE	B5	181	:	D5	213	LEN	F5	245	INTERNAL
96	150	NEXT	B6	182	)	D6	214	CHR\$	F6	246	SEQUENTIAL
97	151	READ	B7	183	(	D7	215	RND	F7	247	OUTPUT
98	152	STOP	B8	184	&	D8	216	SEG\$	F8	248	UPDATE
99	153	DELETE	B9	185	Note 1	D9	217	POS	F9	249	APPEND
9A	154	REM	BA	186	OR *	DA	218	VAL	FA	250	FIXED
9B	155	ON	BB	187	AND *	DB	219	STR\$	FB	251	PERMANENT
9C	156	PRINT	BC	188	XOR *	DC	220	ASC	FC	252	TAB
9D	157	CALL	BD	189	NOT *	DD	221	PI *	FD	253	# (Files)
9E	158	OPTION	BE	190	=	DE	222	REC	FE	254	VALIDATE*
9F	159	OPEN	BF	191	<	DF	223	MAX *	FF	255	Note 1

Note 1. Meaning unknown, not used in Basic or Extended Basic.

Note 2. Unquoted string.

Note 3. Quoted string.

Both the above are followed by one byte giving the string length and then by the string. There is no closing quotation mark or end marker.

Note 4. Following two bytes are line number--second plus 256 times the first.

\* Recognized by Extended Basic only.

30-Jan-87

CODE: D=DISK,C=CASSETTE,M=MODULE,H=HARDWARE,S=SOFTWARE,P=PACKAGE  
A=ACCESSORIES

ITEM DESCRIPTION	CODE	TRITON	TENEX	TEXCOMP	OLD	OLD	OLD	PILGRIM	\$10.00/YEAR MEMBERSHIP N.U.G.	MISC	OTHER	VENDORS	
					CATLG GLIDDEN	CATLG ADVENTR	CATLG YUNGTRE						
SPEECH SYNTH	H	\$29.95	\$49.95	\$29.95	\$79.95					\$38.95			
DSDD DRIVE 1/2 H	H	\$169.95	\$119.95	\$99.95	\$79.95	\$89.95	\$129.95	\$109.95			\$79.95	LOCAL	
SSDD DRIVE FULL H	H			\$79.95							\$35.00	LESHER ET ALI	
DSDD DRIVE FULL H	H		\$139.95	\$99.95									
TI-D-DRIVE CD DS/SD	H			\$79.95	\$150.00					\$137.95	\$125.00	LESHER(DALLAS)	
D-DRIVE CARD DS/DD	H	\$169.95	\$149.95	\$149.95		\$159.95							
DRIVE & CARD SS/SD	H				\$175.00								
DRIVE-2 PWR SUP BOX	H		\$59.95		\$14.99						\$50.00	ALTEX	
DRIVE-2 BOX W/DRIVE	H			\$129.95							\$99.00	LESHER(DALLAS)	
POWER XFMR-SYST	H		\$19.95	\$9.95	\$9.99		\$9.95				\$6.50	ALTEX	
KEYBOARD (REPLACE)	H			\$7.95							\$3.95	RADIO-SHACK	
RS-232 CARD PEB	H	\$99.95	\$89.95	\$79.95	\$99.95	\$79.95	\$89.95			\$75.95			
PRINTER	H	\$119.95	\$99.95										
DIR PRNT INTERFACE	H	\$69.95	\$44.95	\$44.95	\$69.95								
MODEM 300 BAUD	H	\$69.95	\$59.95	\$39.95	\$79.95	\$69.95					\$21.00	COMPUTER SHOPPER	
MODEM 300/1200 BAUD	H	\$199.95	\$149.95	\$139.95		\$194.95					\$99.95	AVETECH-LOCAL	
Y ADAPTOR F/J-STICKS	H	\$4.95	\$4.95	\$10.95									
PROSTICK-2	H			\$24.95							\$19.95	2 FOR TEXCOMP	
32K MEM EXPANSION	H	\$99.95	\$119.95	\$99.95		\$99.95							
USER'S CLUB (32K-EX)	H	CONTACT LOCAL USER'S CLUB FOR INSTALL IN YOUR CONSOLE/SPEECH----TECH & PRICE											
CART EXPANDER (NAV)	HA	\$29.95	\$24.95	\$24.95				\$24.95					
COMPLETE EXP BOX-TI	H			\$539.95							\$250.00	PAWN SHOPS	
COMP EXP BOX CORCOMP	H	\$499.95	\$499.95	\$379.95		\$329.95							
EXT BASIC (TI/MICRO)	P	\$29.95	\$49.95	\$29.95		\$59.95							
TI WRITER	P	\$29.95	\$29.95	\$29.95	\$29.95	\$19.95		\$20.00					
MICRO-MULTIPLN	P	\$29.95	\$29.95	\$24.95	\$29.95	\$19.95							
TI LOGO	P	\$29.95	\$29.95	\$19.95	\$29.95								
EDITOR/ASSMBLER	P	\$29.95		\$19.95	\$39.95			\$20.00					
MINNI MEMORY	M	\$29.95		\$38.95	\$49.95			\$25.00		\$25.00	\$25.00	LESHER(DALLAS)	
TERMINAL EMULAT II	M	\$14.95	\$19.95		\$34.99			\$10.00					
USER'S CLUB DISK-MGR	S/D	FAIRWARE WITH \$10.00 DONATION TO AUTHOR											
18 CART FILE	A	\$14.95	\$13.95	\$16.95									
PICNIC PARANDIA	M	\$5.95											
SHAMUS	M	\$5.95											
MICROSURGEN	M	\$6.95		\$9.95									
TUNNELS OF DOOM	M	WHO STILL HAS THEM ?				\$6.95	DYNAMIC=\$18.95				\$19.95	COMPITITION COMP	

NOTE: THESE PRICES MAY NOT BE CURRENT AND NO RESPONSIBILITY IS ASSUMED FOR THEIR ACCURACY.  
THEY ARE HERE PRESENTED ONLY TO GIVE AN IDEA OF GOING PRICES AT THIS TIME.

Submitted by Hank Kennedy

The Adventures special interest group meets the Sunday following the meeting at Lori Milan's house. (4203 Yucatan, call for directions: 836-3301)

The Assembly Language / Small C / S16 is held the Wednesday following the general meeting, at the Healthcare International building on Great Hills Trail off of 183 just north of 360.

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### Newsletter Exchange

Our users group exchanges newsletters with several other recognized 99/4A Users Groups. The exchange is made with the understanding that, with proper credit to both the newsletter and author (if listed), your users group can reprint articles from our newsletter and, with proper credit, we can reprint articles from exchanged newsletters. (Please feel free to correct any typos, misspelling, bad grammar, etc.; we will try do the same.)

Please send your exchange newsletters to:

Central Texas 99/4A Users Group  
P.O. Box 200246  
Austin, Texas 78720-0246

Central Texas 99/4A Users Group  
P.O. Box 200246  
Austin, Texas 78720-0246



Edmonton 99'er Computer UG  
P.O. Box 11983  
Edmonton Alberta  
Canada

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