

**SOUTH BAY TRS-80® USERS GROUP**



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# **DYNAMIC MEMORIES™**

\* Tandy Corp./Radio Shack Inc.

**JANUARY**

SOUTH BAY TRS-80 USERS GROUP

PAGE---CONTENTS

- 3. INTERIM TREASURER'S REPORT
- 3. REPORT ON STEERING COMMITTEE MEETING
- 4. THREE ERRORS OF OUR MODEL I AND III BASIC INTERPRETERS  
By Frank Vanslager
- 5. MORE BASIC ERRORS from Bruce Tonkin's Newsletter
- 6. SUPERSCRIPSIT MODEL 4 REVISITED---Ian Webb
- 7. MODEL 4---THE UNIVERSAL MACHINE?---Ian Webb
- 8. CP/M AND THE MODEL 4---Ian Webb
- 9. NEW CP/M IMPLEMENTATION---Ian Webb
- 9. CAN APPLE KEEP THE DOCTOR AWAY---Bruce Tonkin(Edited)
- 10. MAIL

SBUG meetings are held the 3rd Tuesday of each month in the north-east corner of Dyan's building at;

Time: 7:15 - 10:30 PM  
5401 Patrick Henry Drive  
Santa Clara, Ca.

January 15, February 19, March 19

7:30 to 8:00 will be for new members and to resolve questions asked by the nonexperts amongst us. Led or followed by the editor as the case may be. Other program details are not at hand.

\*\*\*\*\*

The first Wednesday of every month is for Model 100 fans. Other TRS users are tolerated. Same venue, same time.

\*\*\*\*\*

MEMBERSHIP

If you wish to become a member of SBUG and start receiving our newsletter "DYNAMIC MEMORIES", then send \$18 (check or moneyorder) to the following address;

South Bay TRS-80 Users Group  
P.O. Box 60116  
Sunnyvale, Ca.94088

or come to one of our meetings. If you also wish to communicate with our bulletin board system (SBUG-80) then include an additional \$25 (a one time fee) for an account on the system. You must be a member of SBUG to have an account on the system. Please include your address and phone number.

!!

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## YOUR STEERING COMMITTEE

MEMBER	SBUG-80 USERNAME	PHONE
<b>Discussion Leader:</b>		
Wright Huntley	(WRIGHT)	(408) 248-5905
<b>Treasurers:(pro-tem)</b>		
Pete Fratus	(FRATUS)	(408) 258 8389
<b>Treasurer</b>		
Don Rhodes	(DON)	(###) ###-####
<b>Secretary</b>		
Eric Brewer	(BREWER)	(408) 252-9332
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(tape) Gary Dixon	(GDIXON)	(408) 262-6937
(docs) Pete Fratus	(FRATUS)	(408) 258-8389
<b>SBUG-80 Sysop:</b>		
Robert Byrd	(SYSOP)	(408) 945-9990

## OTHER KEY INDIVIDUALS

**Cover Artist:**  
VOLUNTEER NEEDED

**Host Computer:**  
SBUG-80 (EVERYONE) (408) 946-2286

If the need arises, feel free to give any one of a call.

## THE EDITOR'S BITES &amp; BYTES

Elections were held as scheduled, at the December meeting. What better proof that we are an altogether group, highly organized and motivated? If at times the ambient was permeated with the bitterness of two (or more) streetwalkers discussing their priorities to a corner on the main drag, that's all forgotten now. Isn't it?

It would be nice if we could get someone for the still vacant office of cover artist. Some gifted person could make a major contribution to the club without being tied to a deadline like some sniveling, inkstained wretches.

This issue of your newsletter is being produced with ALLWRITE on a Model 4. You will note the proportional spacing. The special characters on my daisywheel are easily accessed as well. I'm not satisfied with the font, and am going to see if I can't get a prettier one for February. What would you say to Gothic? Somebody suggested Vandal, but they've gotten a bad name somehow in the last thousand years. All input from you will be carefully listened to.

Certainly a bit of artistic inspiration would improve your newsletter. Where are you Pablo (I always called him Pablo) when I need you?

## SOUTH BAY TRS-80 USERS GROUP

Treasury Report for 1984  
December 31, 1984

## CHECKING ACCOUNT

Beginning Balance		\$262	
Deposits			
Dues (SBUG & SBUG-80)	\$ 1747		
Interest from checking	28		
Disk library fees	243		
Documentation Lib fees	<u>16</u>		
Total Deposits		<u>2034</u>	
Balance plus deposits			\$ 2296
Expenses			
Bank Charges		\$52	
Electric (9 months)		180	
Libraries (supplies & software)		427	
Miscellaneous		25	
Newsletter (10 months)		1180	
Phone (includes move)		215	
Post Office Box		<u>26</u>	
Total Expenses			<u>-2105</u>
End of Year Balance			<u>\$ 191</u>
			-----
Cash on hand			
Disk library fees	\$62		
Documentation Library fees	95		
Total	<u>\$157</u>		
	----		
Membership			
Paid up members	27		
Overdue members	<u>137</u>		
Total Membership	164		

## Comments:

It has been a really tough job getting the treasury back into shape after the months of neglect that it suffered. From all the various sources and people on the steering committee, I have collected what appears to be a fair report of the last year and the current situation. At present the club coffers are low, due primarily to the large number of unpaid membership dues. However, most of them were due in December. Besides coming from dues, club money comes from the disk and documentation libraries. SBUG1 is not in debt!! Nevertheless, we can't do anything that represents a major outlay with only \$191 in the checking account. Please pay attention **LOOK** at your mailing label for the expiration of your membership. (Then, send in the money. Right away. Promptly. —Editor's interrupt)

Respectfully submitted,  
Pete Fratus, Interim Chairman

REPORT OF STEERING COMMITTEE MEETING

A number of decisions were taken at the last steering committee meeting, including some job shuffling, the creation of a new position (secretary, to be filled by Eric Brewer), and the incorporation of the club as a non-profit organization. All these new measures will be submitted at the regular club meeting on January 15th for their approval by the membership in plenum.

It was also decided to structure the club meetings a little less loosely. In some previous meetings the first half hour was dedicated to what may be described as the median membership— those who are neither experts nor beginners. It was a success, and will be made a part of future meetings.

It was also decided that a vote of thanks should be given to Sabri and other collaborators who no longer continue on the steering committee.

The editor wishes to give his most profound thanks to Ian Webb for his many well written, well thought out contributions to the newsletter. You should too. Where would you be if you had nothing but my drivel to read every month?

### THREE ERRORS OF OUR MODEL I AND III BASIC INTERPRETERS

by Frank Vanslager

```

1 REM Error #1 (Missing "THEN" causing unexpected results).
2 IF DU<>9 DU=3
3 PRINT DU;D;U:END
10 REM Error #2 (Sine function error for small values of X)
20 X=.001
30 PRINT X,SIN(X),X/SIN(X)
40 X=X/1000
50 GO TO 30
100 REM Error #3 (NEXT without FOR error)
110 N=4
120 FOR I=ITON
130 IF I=3 GO TO 150
140 NEXT I
150 PRINT"At line 150 I equals";I;"correctly, and then for loop 2 we have"
160 FOR J=1 TO 2
170 FOR I=1 TON
180 PRINT"I=";I;"J=";J;
190 NEXT I
200 NEXT J
RUN
0 0 3
READY

```

This error is caused by incorrect parsing. The interpreter associates the "D" of DU as an indication that the preceding 9 is a double precision number with an exponent of zero, and thus it sets U equal to 3. This error will occur whenever there is an IF test ending in a numeric value (or 0), and the following variable has two alphabetic characters the first of which is a D or an E. The simple correction for this is to always include the optional THEN.

EDITOR'S NOTE: Apropos, it is interesting to note that THEN is not optional with TRSDOS 6.0 and up.

SOUTH BAY TRS-80 USERS GROUP

```
RUN 10
1E-03      1.0000E-03      999973
1E-06      1.02989E-06     970973
1E-09      0
DIVISION BY 0 IN 30
READY
```

This is an outright mistake of the interpreter! (It has been corrected in later BASICs.) As  $X$  gets small  $\sin(X)$  should be more and more exactly equal to  $X$  and the last column should become very, very close to 1. This is a much, much more serious mistake than it seems; in many scientific programs, such as those employing Fourier sine/cosine series or those involving the quite common  $\sin(X)/X$  factor, the answer can be off by orders of magnitude! In any program involving any of the trigonometric functions you should always check that if  $X$  is within  $1E-04$  of any of the multiples of  $3.14159/2$ , it will receive special handling.

```
RUN100
At line 150 I equals 3 correctly, and then for loop 2 we have:
I=1 J=1 I=2 J=1 I=3 J=1 I=4 J=1
NEXT WITHOUT FOR IN 200
READY
```

This is another outright interpreter error! (It has been corrected in later BASICs.) It has nothing to do with whether this is good programming style or not; the stack is simply not maintained correctly when the control variable from the IF-terminated 1st loop is used in another loop which is nested inside one or more other loops. If possible, avoid using programming to correct this, because that is bad programming style! Simply do not use that 1st loop control variable anywhere else in your program.

EDITOR—The following is from Bruce Tonkin's newsletter

"Suppose your machine reported a 'type mismatch' error for a line that looked perfectly OK? In fact, what if the line were perfectly all right? You'd suspect a bad RAM chip, a bad load of BASIC, an invisible character in the line - just about anything before a bug in good old Microsoft BASIC, wouldn't you?

I've found a couple of errors in Microsoft BASIC, though, and one of them will give you that 'type mismatch' error. Here's one originally reported by a user (David C. Porter, much thanks) of CREATOR/LAB on the new CREATOR UTILITIES disk;

```
260 IF F%(I)<>999 THEN FIELD #1,J AS D$,K AS F$(I):J=J:GOTO 270
```

The variables  $J$  and  $K$  are (by default) single precision, and there isn't a blamed thing wrong with the line. I know some versions of Microsoft BASIC don't like integer variables in a FIELD statement; the program doesn't use the DEFINT command, though.

The variable  $K$  was coerced into single-precision by the previous line, which used  $K=ABS(F\%(I))$ . So, there's no integer variables except the array index ( $I$ ).

Still, at least some versions of Microsoft BASIC on the TRS-80 will give a type mismatch error for this line! That exact same line works under Microsoft BASIC on EVERY other machine, and works under Microsoft BASIC on most TRS-80 machines (mine included)

If you get a 'type mismatch' error, you can 'repair' the 'error' by altering line 280 to read:

```
280 IF F%(I)<>999 THEN FIELD #1,VAL(STR$(J)) AS D$,VAL(STR$(K)) AS F$(I): J=J+K:GOTO 270
```

Why Microsoft BASIC thinks there is a type mismatch in the other line is beyond me. The fact the same line runs just fine on ALL later versions of Microsoft BASIC tells me that Microsoft was made aware of the bug (whatever it was) and fixed it."

## ITEMS FOR SALE

### BLANK DISKETTES

DYSAN (NEW no hub ring DSDD)	NEW	1.35 each
DYSAN Alignment Diskette \$224 (2)	NEW	15.00 each

### SOFTWARE:(DISK)

French to English translation TLF-50	\$10
Deluxe Personal Finance	15
Information Storage & Retrieval (ISAR)	25
Level II Basic (4 disks, 8 lessons)	12
Check Write (R A Shmina) Personal Finance	10
Interactive Data Manager	15
Adventure #4 by Scott Adams	5

### ORIGINAL TAPES

Cload Magazine (12) March '78-79 (This would be a nice library gift.)	\$22
Level II Data Conversion	2
Level II Program Conversion	2
Radio Shack Terminal II	2
Recipe Conversion & Message Center 23-1601	1
Keyboard Debounce Systems*KBFIX(side 1)	
Keyboard Debounce/Real Time Clock System	
*RELO (side 2) both Level II	3
Miscel. other tapes (some with programs)	1.50

Contact Bernie (Thompson) Phone (408) 867-7455

I can have any of these items with me at a meeting, if you want to see a particular item there, let me know. Or drop by at 20738 Woodward Ct., Saratoga by appointment.

### SUPERSCRIPSIT MODEL 4 - REVISITED

by Ian Webb

The editor didn't run my article on Superscript until a couple of months after I wrote it. Since then I have received a letter from Tandy on an upgrade. Today I finally was able to get that upgrade and have only used it a short time.

## SOUTH BAY TRS-80 USERS GROUP

What a difference! It seems to work properly now. I don't know about its file destroying tendencies which appeared from time to time in the older version, but this one allows you to type as fast as you want and seems to perform the same as the original Model III SuperScript.

At this point, I can again say that SuperScript is worth using!

### MODEL 4 - THE UNIVERSAL MACHINE?

by Ian Webb

I have received telephone calls from individuals from several different parts of the country wanting information of 8" drives on the Model 4. All of them are attracted to the Model 4 since they were interested in using and running programs they had from older S-100 machines using CP/M.

It dawns on me that the Model 4 can be a truly universal machine if you put an 8" drive on it. It not only allows you access to hundreds of programs written for the Model III, but also a growing collection of revisions of those programs and new programs written for the Model 4. In addition, with Montezuma Micro CP/M and an 8" drive, you would be hard pressed to find a CP/M program on any kind of diskette (soft-sectored) that you couldn't use.

The two drive Model 4 will likely cost less than \$1000 in the near future. The cassette Model 4 will be on sale after the first of the year for \$399. I already know of a sale to a person who called me from Arkansas...his local store told him he could have it for that price. By buying one of these machines, adding drives and a non-Tandy controller, you can have the best of all 8 bit worlds. The total cost for this would be approximately:

Model 4, cassette machine	\$399
Disk power supply (surplus store)	40
Disk Controller (Holmes or equivalent)	150
RS 232C board	75
2 TEAC FD55B 40 TK DS drives	230
Misc hardware	20
TOTAL	\$914

By the time you add tax as applicable, shipping, etc, you are going to have a machine for \$1000 on which you can attach an external 8" drive and an additional 80 track DS drive if you wish true software compatibility.

The 8" drive will cost you anywhere from \$100 to \$500 depending on how resourceful you are. (\$50 for a surplus case and power supply and \$35 for a flea market drive with about \$15 for components to make the cable.) An external (or internal if you have used all  $\frac{1}{2}$  height drives) 80 track DS drive will cost about \$135 - \$150 for the drive itself.

Since the Model 4 is ready for conversion to a Zilog Z800, I guess we can all keep hoping that sometime in the future Zilog will get their act together and that the Z800 will become available for installation. Then we'd even have 16 bit capability.

You should be aware that you can't make this type of machine from the new Model 4 machines. The new ones are a single-board construction which means you are stuck with the Tandy disk controller and can't put in a controller from another manufacturer and use

8" drives. In fact, you would be better off buying a used Model 4 of the older vintage or getting the new cassette machine and converting it. In some parts of the country the cassette version is getting hard to find. After the sale in January, there will be no more.

### CP/M AND THE MODEL 4

by Ian Webb

The people with Model 4 machines who aren't using CP/M are missing out on a lot of good software that is LEGALLY available free. What most don't seem to understand is that almost all CP/M software will run on any machine using a standard version of CP/M 2.2. This means that the Montezuma Micro CP/M will allow you to use thousands of software packages available either by mail for nominal diskette cost and handling or free over the telephone lines from the numerous CP/M bulletin boards in this area.

There are hundreds of diskettes (yes, probably gigabytes worth) of public domain software available for CP/M. For \$5-\$10 a diskette, it is available by mail from users groups. More often than not, this same software is available on free bulletin boards within local calling distance.

You want FORTH for the Model III or 4? A legal copy probably costs \$75-\$150 depending on whose version you buy. A public domain complete implementation is available for the downloading and is a more recent version most likely!

You want a library facility to allow you to put your programs into libraries and use the disk space more efficiently? (Small programs hog diskette space something fierce!) For the Model III or 4 (LDOS) probably \$50, CP/M public domain \$0.

How about a good modem program supporting auto-dial on Hayes compatible modems, a built in directory of numbers, 300 to 4800 baud support, etc.? You may spend \$50 to \$100 for Radio Shack operating systems or get modem 730 or 740 free in CP/M public domain libraries.

What about "C" or Pascal? Free versions are available again in CP/M public domain. Granted, probably not full implementations, but nonetheless, adequate to explore those languages.

These and thousands of other programs are an outgrowth of the many years of software development by many pioneers in hobbyist computing. Those people wrote programs because they enjoyed doing so. They shared them with others since they wanted their work to be appreciated and used. There were no software vendors in the "olden days" and the public domain software grew into an extensive library of first rate programs. Today others are still improving and modifying those programs. Many still are creating new software for CP/M machines, and since there is such an overwhelming move to MSDOS, even some of these are being re-written for MSDOS. In some instances versions of the programs are available free, but in other cases they are quite expensive. There is little "commercial" market for CP/M programs so most good software becomes public domain or is put there for you to use and make a "contribution" for a better manual and continuing support. People are actually encouraged to spread the copies to the bulletin boards and to their friends. Can you afford to pass up that great deal?

The point is that most of us don't really use most of the software we have. If you are like a lot of us, you get enjoyment out of exploring different programs, trying this and that and perhaps only ever again using one in 20 programs that you investigate. If you are that type of user, CP/M is for you. Why not join us using CP/M?

NEW CP/M IMPLEMENTATION

by Ian Webb

Montezuma Micro CP/M is now at version 2.2. (Confusing? 2.2 CP/M version 2.2!) It is a completely re-written version of CP/M by Jessie Bob Overholt who wrote for The Alternate Source before they stopped publishing their journal and left us holding the bag, even though they claimed a "money back guarantee". (Just try to get them to make good on it...3 letters and 2 telephone calls have not been successful.)

This new version allows unlimited support for any possible CP/M format that you can describe as well as the ability to write and read IBM compatible formats if you have the proper hardware.

Some of the files missing in their earlier version are with this package, including MOVCP/M which you would want if you were to customize the package and use some of the "shells" that are available in the public domain. The package seems to be smoother operating and doesn't produce some of the unpredictable results that had been reported with the earlier version.

This version also offers optional hard drive support which will allow you to "share" a hard drive with TRSDOS 6.2. That way your hard drive can be used for both operating systems.

The price for the package is \$169 (seen advertised for \$159) with an additional \$30 for the hard drive support. Not cheap, but a good package and certainly more worthwhile than CP/M+ from Radio Shack at two thirds the cost.

CAN APPLE KEEP THE DOCTOR AWAY?

EDITOR

The following are quotes from Bruce Tonkin's newsletter for June-August 1984. They coincide so exactly with my own thoughts that either we are right, or we will find ourselves in the same insane asylum. It's so nice to have congenial company anywhere you may be.

"I wrote a letter in June to Steve Jobs and told him so (that Tonkin hates the mouse, the icons, and the Mac's Pascal dependency -- EDITOR) in detail. I also complained, (justifiably I think) about Apple's lack of development tools for the Mac, the high cost of the system documentation, the need to buy a Lisa to write software for the Mac, and the \$500 per month charge for phone support. I said Apple was 'freezing out' all the little guys that made their other systems popular, and I thought Apple should change those things or the Mac was never going to have any software. And, without software, the Mac is a very expensive etch-a-sketch.

Apple has not responded to my letter. Realistically, I don't think they ever will. Job's big deals right now seem to be to get Lotus 1-2-3 up and running on the Mac, and to put 512K on the Mac so Lotus can do it. So, Lotus has had a 512K Mac for about six months, and no one else has. So Lotus pays the \$500 per month, buys a Lisa or two - or ten, for development.

Apple's going to be surprised. The Mac won't go anywhere just because it's got Lotus - it's the thousands of other programs written by the little guys that will make or break the Mac. Those programs may never be written."

Tonkin goes on to compare the (fat) Mac with the IBM, TANDY, AT&T, SANYO and the COMPAQ, not at all to the Mac's advantage.

"Don't expect any quick change in Apple's attitudes, either. Apple's never been very quick to realize and correct errors, and (if anything) Apple has gotten even more rigid and defensive. I read an article/interview with Steve Jobs in Issue #2 of Club Mac News. He managed to sound arrogant, ignorant, and libelous at the same time."

"I've heard Apple has revised their sales projections for the Mac for 1984 down from 400,000 to 215,000. The last I heard, the JR had sold about 200,000 units this year, and PC and PC clones had sold about 3,000,000. To me, that says the Mac will never make it. It looks like Apple has gone for broke - and is making it there. Can chapter 11 be far behind? Unless Apple sells an awful lot of Macs and the incredibly dumb IIc models in a hurry, I think Apple will see the inside of a bankruptcy court sometime soon.

One thing is fairly sure: the IIc is a dud. Very few are being sold, I've heard. Apple didn't realize most of its users were running (gasp!) CP/M on Apple's little plastic toy computers, and not running Apple's DOS 3.3 or even UCSD Pascal. There's no decent business software available for use under DOS 3.3 that I know of, and (almost by definition) nothing worth much under UCSD for any machine anywhere."

"Gee, the people at Apple must be getting frustrated! The market is trying to tell them they still haven't done anything better than the IIe and even Apple knows the IIe is a dead end - ten year old technology and overpriced, even so. It's as if Tandy were trying to still sell the Model I for \$1300 (disk drives and monitor extra, TRSDOS the only DOS)"  
 \*\*\*\*\*

As any fool can plainly see, Tonkin doesn't think much of Apple. I see it quite clearly. No proprietary DOS can survive. IBM might successfully start out with a new DOS, but I doubt they'll try. Even they would suffer too much to make it worthwhile

12/20/84

<Message from GMCKEE at SBUG-80 12/20/84 06:58:05

RE: CLUB ELECTION GENERAL

Read Command:

THE GREAT SBUG ELECTION HAS COME AND GONE.

once again by default the group was restored.  
 now that the new (old) team is on the job,  
 who would like to play treasurer, come by  
 my house, get the mail and bail the sbug  
 bank account out of its' overdraw/bouncing  
 check condition? would seem that the general  
 membership is not interested in contributing  
 to the effort required to get sbug back on  
 it's feet, financially, administratively, and  
 functionally,. thanks to the librarians who  
 are devoted, we do have that much of the club  
 intact, alive and well. i withdrew from the  
 steercom because i felt betrayed by the system.  
 to be a real club effort, more than 15% of the  
 membership should have been present for the  
 election effort, at least two choices should

SOUTH BAY TRS-80 USERS GROUP

have been available for each defined office,  
and some semblance of parliamentary rule should  
have been followed. i really think it is time  
to charter the club formally, and seriously  
consider incorporating it as a non-profit  
effort. without real leadership (that is you)  
the effort is wasted, however. even the thought  
is a waste. gmckee  
merry christmas and or happy hanaka  
and most of all good computing in 1985!

<Message from SYSOP at SBUG-80 12/20/84 17:29:54>  
RE:FINALLY!!!!

YAAA!!!!!!

FINALS ARE OVER !!!!!!!  
Happy Holidays!!!!!!  
NO MORE SCHOOL FOR 30 DAYS!!!

Rob!!!

Read command:

Read command

<Message from GMCKEE at SBUG-80 12/21/84 07:28:33  
RE:VOLUNTEERING

Read command:

I WANT TO REPEAT>R E P E A T> THAT IS  
I WILL PRINT LABELS, as soon as someone gets  
the label program and current monthly list to  
me!!!!!!!!!!!!  
it is just criminal for this to drag on and on and on  
example  
here is a newsletter which has been returned  
it is not the first  
time  
it is a 4th or 5th month in a row  
the december newsletter  
stamped  
labeled  
sent  
is returned marked undeliverable!  
it is labeled as follows  
richard                      chetley  
san jose                      ca95128  
that's all  
nuff said?  
oh yes, my own newsletter has not been corrected  
to come straight to me since i moved in april!!!!  
nuff said? gmckee  
p. s. attn: label person (if we have one)

gerald f. mc kee  
626 n. park victoria dr.  
milpitas ca 95035-4010

<Message from SAMBROWN at SBUG-80 12/21/84 14:48:09  
Read command:

ONCE AGAIN I WISH TO EXTEND MY SERVICES TO SBUG, THIS TIME  
ITS DIFFERENT. AS DIRECTOR OF BYTE BANDITS OF AMERICA I  
AM OFFERING TO BAIL OUT SBUG FROM ITS CURRENT DEBTS, AND  
CONTINUE THE CLUB UNDER THE NAME

2"BYTE BANDITS OF AMERICA

THIS IS NOT AN INSULT, LITS A OFFER TO CONTINUE THE CLUB  
IN EXISTANCE FOR THE MEMBERS. WE RUN A FREE WORKSHOP  
TYPE CLUB AND THE MACHINE NOT THE MEMBERS IS KING.  
ACCEPT MY OFFER AND I CAN PROMISE YOU A HEALTHY FUNTIONAL  
CLUB WHERE THE MEMBERS NEEDS SHALL BE MET AT EVERY MEETING  
OF EACH MONTH.

I KNOW THIS WILL OFFEND A FEW OF THE CLUBS MEMBERS, IF THEY WERE AT LAST  
MONTHS MEETING, THEY WOULD HAVE ALSO BEEN OFFENDED.

I WILL PUT MY BID IN FOR THE TREASURES POST AT THIS TIME  
TOO. AT THE MEETING THERE WAS TO MUCH HOSTILITIES FOR  
ME TO VOLUNTEER.

I DO HAVE YOUR MEMBERS BEST INTERESTS AT HEART AND I  
KNOW I HAVE MORE TO OFFER YOUR CLUB NOW THAN EVER BEFORE  
IN THE CLUBS HISTORY.

SINCERELY

ROBERT W. BROWN

DIRECTOR  
BYTE BANDITS OF AMERICA  
TRS-80 COMPUTER CLUB

Read command:

<Message from JIBBYTRM at SBUG-80 12/21/84 21:07:36

RE: Christmas and Christmas presents

Read command:

Merry Christmas to one and all

Sounds like the same old feudin in Calif.. Well I  
guess thats the way it is in the old part of the U.S.

I received my christmas present at work two weeks  
ago. A great big DEC VAX 11/750 computer. Boy is it  
fun to run. The number of commands are incredible.  
I can communicate with all of our facilities in the U.S.  
and abroad. I have my own terminal at home and can  
talk to my system and the rest of the system. he  
to his computer. My wife just typed that in!!!

have a merry one.  
.Jbbytrm



INVESTED THEIR TIME IN THE RUNNING OF THE CLUB. THOSE VOLENTEERS THAT RUN THE MEETINGS, PUT OUT THE DYNAMIC MEMORIES AND RUN THIS BOARD.

I FOR ONE WOULD NOT LIKE THE CLUB TO BE BOUGHT OUT BY ONE PERSON NO MATTER WHO IT BE.

B. BROWN HAS MADE SOME VALUABLE CONTRIBUTIONS TO THE CLUB ESPECIALLY AS TAPE LIBRARIAN, BUT I AM VERY LEARY OF BEING ASSOCIATED WITH THE NAME "BANDITS". THIS FEAR COMES FROM ALL THE ADVERSE PUBLICITY THAT BULLETIN BOARDS HAVE GOTTEN WHEN THEY HAVE RUN AFOUL OF BABY BELL.

THIS IS NOT THE TIME TO FOSTER THE "BAH HUMBUG" ATTITUDES ABOUT THE CLUB.

I ALWAYS FIND IT HARD TO DO EVERYTHING I WOULD LIKE TO DO DURING THIS TIME OF YEAR.

MERRY CHRISTMAS

AND MAY THE CLUB HAVE A HAPPY YEAR.

ROGER AND

Read command:

<Message from PAUSER at SBUG-80 12/26/84 08:08:34

RE: Model I keyboard

Read command:

My model I ENTER key has stopped working and the problem is due to the key contacts under the key top. One of the contacts has suffered metal fatiguye and broaken off near where it passes through the plastic frame to the circuit board. Does anyone know how to fix or replace the contacts? Are parts available for the keyboard? Any help or ideas would be greatly appreciated.

Read command:

Message from CHAMBRLN at SBUG-80 12/26/84 09:09:84

RE: Model I keyboard

Read command:

Lee;

I and several others have had a problem with the Model I keys. They are relatively easy to replace if you have the right key types. There are at least three different types of keys. I have an extra of one type and as of a few months ago when I was looking myself, Gerry McKee had the other two types. Give me a call at home and we can talk about wether the key I have will fit.

I'll be glad to let you have one of my extras if it will work on your keyboard.

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