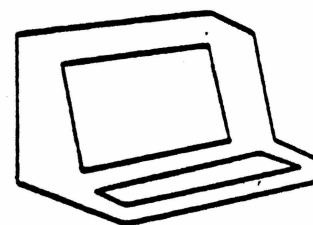


THE INTERFACE

NEWSLETTER OF THE SAN GABRIEL VALLEY
TRS-80 USERS GROUP



Volume 6 Number 5

Price \$1.50

May, 1985

SUPER UTILITY AGAIN Wherein April's Talk Finally Arrives

Last month we promised you Don LaFavor and his expertise in the myriad uses of Super Utility Plus - this month he's really gonna do it!! A lot of material was covered in last month's RAM session (see the President's letter) and the members decided that it wouldn't be fair to Don (and SU+) to rush through it. So it was postponed. And now it's here.

The May meeting will be held Friday, May 10, at 7:30 PM
in the Arcadia Park Senior Citizen's Center
405 South Santa Anita Avenue, Arcadia

SAGATUG meets the second Friday of every month

Sweet Sick Sally

Things are looking bad for SAGATUG's long, happy relationship with Sweet Sally. Read "Ask Sweet Sally", and then send flowers and a couple of questions! !

Club Officers:

President -----	Andy Levinson
Vice President -----	Don La Favor
Sec'y/Treasurer -----	Dan Dresselhaus
Board Members -----	George Fischer, Mark Speer
INTERFACE Editor -----	John T. Phillipp (818) 914-5803
Submissions -----	815 S. Walnut, San Dimas, CA 91773

Note: SAGATUG remains SAGATUG

THE PRESIDENT SPEAKS

We had quite a bit of excitement at last month's RAM session. We maintained our continuity to the past while pushing ahead to the future. We also demonstrated that SAGATUG is YOUR club.

The Name is the Thing

The word "SAGATUG" is an acronym for "San Gabriel Valley TRS-80 Users Group". Someone (Don't worry John, I won't tell) proposed that the "T" be changed to mean "Tandy" rather than "TRS-80".

The argument in favor of the change was that Tandy is now using the name "Tandy" for its new computers rather than "TRS-80". Many members now own "Tandy" machines (such as the Model 1000) along with "TRS-80" computers (such as the Model III). A name change would be progressive and would perhaps make SAGTUG more attractive to new members. Furthermore, the acronym would not change and TRS-80 users could have a subgroup within a larger Tandy group.

The argument against was that we ARE primarily a TRS-80 club. We do not discriminate against other computers. If the "others" eventually become the majority, then we can change the name at that time. With the growing popularity of MS-DOS machines, we might have to make that change in a year or so. Why change the name twice in such a short period of time? We gather together to help one another on the machines that we in fact use. Fifty people in a room of 50 people can help one another better than 50 people in the corner of a room of 100.

The result: The members attending the RAM session overwhelmingly rejected the proposal, voting to table it indefinitely.

See More - Do More

The other proposal was that SAGATUG purchase some monitors for use during lectures and demonstrations, to make it easier to see what a speaker wants to demonstrate. The Price Club had an incredible buy on Goldstar 12" amber monitors (only \$59.95 plus tax).

The argument in favor was that a single computer monitor can only be seen by perhaps 3 or 4 people. If purchased, these Goldstar monitors could be plugged into a Model I or into a modified Model III, 4, or 4P. They could also be daisy-chained so that one computer could drive several monitors. The Microdoc people said they could probably modify a III/4/4P computer for SAGATUG members for \$10 or less. Several people stated they would have it done. The monitors would then directly serve activities that SAGATUG is supporting.

The argument against, of course, was money. Club dues are not set very high and the money had to come from somewhere. The SAGATUG treasurer, Dan Dresselhaus, stated that we had sufficient money at this time to pay for the monitors. However, after deducting projected expenses and adding in projected revenues (mostly new member dues expected through the end of the year), we only had enough funds left for 2 monitors. This led to a vote on how many monitors

to buy.

The result: The membership at the RAM session voted to purchase four monitors.

In a large presentation, all four monitors could be used at once. For smaller or dual presentations, each group could use 2 monitors (with each speaker also having a screen on his or her computer). To cover the cost, the members decided to solicit voluntary donations, particularly from those attending demonstrations. In a display of club spirit, several of the members of the club donated \$15 each on the spot to help pay for the extra monitors. The result was enough money to totally pay for 2 of the 4 monitors. The balance (hopefully) will come from new member dues and perhaps additional donations. The members voted against a special dues assessment unless it becomes absolutely necessary.

The Moral

The moral of all this is that SAGATUG will do what its members want to do. If you have any ideas, feel free to bring them up at the RAM session. Caveat: Major proposals can be raised but a vote must be delayed at least one month so that the proposal can be discussed in The Interface and brought to the attention of all members.

HAVE I GOT A DEAL FOR YOU. . .

A special thank you to Don LaFavor for discovering the Goldstar monitors and bringing them to our attention. Those of you who could use a monitor might want to go over to Price Club. Price Club apparently made a special purchase and probably will not be able to repeat the price once all monitors are gone. (EDITOR'S NOTE: on a different, but related subject, Price Club is selling Smith-Corona dot matrix printers with tractor and friction feed for \$150. My friend bought one, and hooked it up to his IBM. It seems to use the same codes as the Epson series. The print quality is very good, and it looks like a very good buy.)

The other special buy of the month is the Model 4P. For those in the dark, the Model 4P is saying farewell. (Read the Tandy Newsletter in this issue). Tandy promises to continue support for the 4P and will still manufacture the 4. The 4P is a superb machine and is especially convenient for carrying between SAGATUG and home. The closeout price is only \$650. Last week, I called two Texas mail order discount houses. One had a 64K 4P for only \$555 and the other for \$558. These prices include shipping via UPS to California. There is no sales tax (since out-of-state). Quite a buy! It's almost tempting to get one just to get the spare parts! As a closeout, once they are gone, they're gone.

If you know or hear of any special deals, please tell the other members at the RAM session or pass them on to John Phillipp, the Interface editor.

MAY SPEAKER

Our speaker in May will be Don LaFavor who will be explaining the in's and out's of Super Utility Plus. Yes, we know that Don was supposed to have talked about that at the April meeting but the April RAM session was so heated that we

ran out of time.

SU+ is an extremely powerful utility. As the old saying goes, with power comes responsibility (or was it "absolute power corrupts absolutely"...?). Thus SU+ can be complicated, some say overwhelming. But SU+ is not hard to use for its more fundamental yet still valuable features. Don will be presenting the basics at the May meeting. Come on out and learn more about Super Utility Plus.

Looking ahead, the SAGATUG Board has tentatively scheduled Don LaFavor to also be the June speaker, to continue talking about SU+. (You can't cover it all in one month, even two months is barely enough). The tentative July speaker will be yours truly to explain details of TRSDOS-like disk directories and directory entries. This is essential information for rebuilding lost disks and files. It links with the SU+ talks since one needs a disk zapping utility to do the work.

We will still be playing it by ear. If you have any thoughts or comments then be sure to let us know. As always, John Phillipp will try to find his quiet corner for the Pascal group. Pascal is still going strong. If you have an interest, then plan to get together after the RAM session.

That's all for me for this month. See you next Friday evening, May 10, 1985.

Andy

FROM

NORTHERN BYTES



BASIC PROGRAM FUNCTIONS YOU CAN USE
Jehangir Gardar
reprinted from the ABC Micro Newsletter

The first group of functions are used when you are printing a sentence which includes a numeric variable, and you want to make sure you have the correct plural ending. For example, your program may say something like

"X new record(s) have been added"

where X is some number from 0 to ?? Surely one would think that the computer should be able to tell whether to print "record" or "records", depending on the number of records added (one, or other than one). Well, if line 130 in the sample program is included near the start of your program, you need only rewrite your PRINT statement in this form:

```
PRINT X "new record" FNA$(X) " have been added."
```

In the above example, FNA\$ will return a null string if X=1, or the one character string "s" if X<>1. Note that the variable name does not have to be "X", it could be any valid variable name.

The function in line 150 (FNB\$) works exactly the same way except that a null string will be returned if the variable used equals either 0 or 1. The function in line 170 (FNC\$) is used when you need the plural "es" rather than a simple "s".

But what if you also need to include the words "is" or "are" in your sentence? That's where the functions in line 220 and 240 come in. The one in line 220 (FND\$) returns the word "is" for an X value of one, while the one in line 240 (FNE\$) returns "is" for a value of either zero or one. As an example, the above sample line could be rewritten:

```
PRINT X "new record" FNA$(X) " " FND$(X) " to be added."
```

Note that in this example, a space (" ") must be inserted between the two functions. If X=1, the above line would be printed as " 1 new record is to be added.", while if X=2, the line would be printed as " 2 new records are to be added."

You may have noticed that a space is printed before and after the numeric variable in the above example. The space before the number would have been occupied by a minus sign ("-") if the value of the variable had been negative. In many cases you may want to extract the just the number, without any leading or trailing spaces. This is done by the function in line 290 (FNF\$). The functions in lines

310 and 330 do exactly the same thing for all non-zero values, but if X=0 then either the word "no" (if FNG\$ in line 310 is used) or the word "zero" (if FNH\$ in line 330 is used) will be substituted. If our sample line were rewritten as follows:

```
PRINT FNF$(X) " new record" FNA$(X) " " FND$(X) " to be
added."
```

The leading space prior to a positive value of X would be eliminated, but the minus sign would NOT be chopped off if X<0. In this example, a value of zero would be printed as 0 ("0 new records are to be added."), but if FNG\$ were used instead of FNF\$, a value of zero would be printed as "no" ("no new records are to be added.") If FNH\$ were used, 0 would be printed as "zero".

```
100 ' PLURAL ENDINGS FUNCTIONS
110 '
120 ' Return null if N=1, else "s"
130 DEFFNA$(N)=MID$("s",1-(N=1),1)
140 ' Return null if N=0 or N=1, else "s"
150 DEFFNB$(N)=MID$("s",1-(N=0 OR N=1),1)
160 ' Return null if N=1, else "es"
170 DEFFNC$(N)=MID$("es",1-2*(N=1),2)
180 '
190 ' SELECT IS/ARE
200 '
210 ' Return "is" if N=1, else "are"
220 DEFFND$(N)=MID$("areis",1+(N=1)*-3,3)
230 ' Return "is" if N=0 or N=1, else "are"
240 DEFFNE$(N)=MID$("areis",1+(N=0 OR N=1)*-3,3)
250 '
260 ' NUMERIC STRING HANDLING
270 '
280 ' Return digit string with no leading/trailing spaces
290 DEFFNF$(N)=MID$(STR$(N),2+(N<0))
300 ' Same as above but return "no" if N=0
310 DEFFNG$(N)=MID$(STR$(N)+"no",2+(N<0)-((LEN(STR$(N))-1)
    *(N=0)),LEN(STR$(N))+(N>0))
320 ' Same as above but return "zero" if N=0
330
DEFFNH$(N)=MID$(STR$(N)+"zero",2+(N<0)-((LEN(STR$(N))-1)
    *(N=0)),LEN(STR$(N))+(N>0))
```

Of course, it is possible to achieve the same results by using other BASIC programming techniques, but most of them will involve multiple IF-THEN statements and may occupy several program lines. The above functions are much easier to implement in most cases.

Please note that this article presumes that the reader has some knowledge of user-defined functions in BASIC. If this

is not the case, you may wish to blow the dust off your BASIC programming manual (assuming you can still find it) and read up on the subject. The main thing to remember is that the variable "N" used in the definition of the functions is a dummy variable, a placeholder which will be replaced by the real variable name (I used "X" in the examples, but it could be any variable name) when the function is called in the program. This is what makes user-defined functions so powerful - you can use the same function over and over, plugging in different values each time, without having to reassign variables as you would have to do if you used a subroutine to accomplish the same purpose.

BOOBY TRAPS

reprinted from the Winnipeg Micro-80 User's Group Newsletter

BOOBY TRAPS - a particularly insidious variety of psychological warfare that either lets you spend hours creating files on your pirated program, before NEWing your diskette, or (even worse) a new breed of diskette with holes punched strategically around the perimeter to insure that it will be the LAST diskette you copy on that drive.

The last one is used on some (expensive) business software packages. The label on the disk clearly states:

THIS DISK IS COPY PROTECTED. Any attempt to duplicate may cause permanent damage to the disk drive.

It appears that this is no idle threat. By rotating the diskette in its sleeve, one finds a 3 mm hole punched in the magnetic media, near the outside edge. If the diskette is duplicated, the drive would attempt to read the whole diskette, track by track, and would catch the hole when it tried to read the outer tracks. This could tear the diskette, or pull the recording head mechanism out of alignment, permanently damaging the disk drive.

I've seen the first one operate, but haven't run into the second. Forewarned is forearmed.

GARY'S RULES OF COMPUTER ADVICE

Gary DiIllio

reprinted from HARDCOPY the newsletter of the TRS-80 Users Group of Delaware County.

This month I would like to present Gary's Rules Of Computer Advice. We microcomputer owners are often asked to advise someone on the purchase of a micro. If, after reading these rules, you come to the conclusion that advising consumers on microcomputers is a "no-win" situation, don't blame me!

THE RULES:

1 - At least half of those seeking advice on selecting a microcomputer have already decided on a brand of micro BEFORE they ask you for advice.

2 - About 10% of those seeking advice on selecting a micro already BOUGHT one last week. They are not looking for advice - only confirmation that they made the right decision.

3 - If someone DOES heed your advice, you will be cursed and blamed every time "DOS ERROR" or "SYNTAX ERROR" appears on the screen.

4 - If someone ignores your advice you are justified in getting angry.

5 - Anyone who works with or owns a micro is an "expert". After having worked for 8 years with over 20 computer systems, from the largest to the smallest, I enjoy being told that "Harry the barber just got an Apple last week and he says. . ."

6 - People who wouldn't think of comparing a \$10 transistor radio to a \$3000 stereo multiplex system will expect a \$50 Timex computer to have the same capabilities as a \$3500 IBM-XT.

7 - Often, you are asked to advise on selection of a system after the following exchange:

How much do you want to spend? "Not much."

What do you want to do with the computer? "This and that."

What kind of software do you want to run? "All kinds."

8 - After spending an hour trying to figure out what they need (when they barely know, themselves), and then suggesting a system, don't be surprised to hear, "But the color clashes with my drapes!"

ASK SWEET SALLY
ASK SWEET SALLY
ASK SWEET SALLY

Bulletin: SAGATUG did not receive the "Ask Sweet Sally" column this month. The following telegram came in which is repeated in its entirety.

TO: John Phillipp, Editor
The Interface, SAGATUG
FROM: The Home
SUBJECT: Sweet Sally

MESSAGE: Mrs. Tracy Roberta Sally, long a resident of The Home, has taken ill. She was always a bit crazy, often talking to a Model I computer that she had named after her deceased husband.

Mrs. Sally has ceased speaking, even to her computer. She sits rigid, staring at a wall, and is not taking food. The doctor is greatly concerned for her health.

The last words anyone heard from Mrs. Sally were "Tell John if no one cares about me then there's no point going on."

This message has been sent to you as you are the only name found in Mrs. Sally's telephone book.

END OF MESSAGE

Editor's Note: Can you imagine how I felt when I read this? I've been telling the club members for months that they should send letters and questions to Sweet Sally (just look back in the old issues of the INTERFACE - you DO save your old copies. . . don't you), but I never realized that things were this bad!! We'd all better write to her right away, or there is a good chance we may lose her entirely!!

Thanks to several of you for kind words about the first issue of this newsletter!

FUTURE OF THE MODEL 4P

Andy Levinson of the San Gabriel Valley (CA) Users Group caught me! He writes "What's the future of the 4P? You were careful in referring to the future of the Model 4, and *not* the 4P."

Transportables in general haven't fared well in the marketplace. IBM's portable was soft. Kaypro has had a disappointing quarter. The 4P is one of the most attractive transportables, but its sales haven't been outstanding. The 4P is going on sale 4 days from this writing, for \$650, and it will be discontinued when present inventory is gone.

BUT... and it's a big but... the 4P won't become the usual variety of 'discontinued computer'. Remember, the 4P is nothing but a transportable configuration of the 4, which absolutely will continue. What runs on the 4 should continue to run on the 4P, so it's more akin to discontinuing an 8K model 100, and selling only the 24K.

If you want a 4P, this will be your last chance! It will NOT be replaced by another transportable. So, get yours now!

MODEL 4 SUPPORT

As I said last month, the Model 4 will continue, and therefore the 4P will have ongoing support, too. We're continuing to seek out new software for the Express Order program. Currently, for example, just for the Model 4, we have Data Ace, Teleterm, Omniterm, Read It!, Child Health, T-Cad, Le Script, Let's Talk, Allwrite, Back/Rest, Electric Webster (and its spell checker), T/Maker, Post Plus, and Superlog, with more coming.

I don't claim to know them all, but reports from users are that some of the best available Model 4/4P programs are in that

group. It so happens I've used T/Maker, and I can attest to it being one of the most unique integrated packages on the market. It's modeless. You're always in a 'sort of' WP mode. Want a spreadsheet in your letter... build it. Need to look up a word in the dictionary while in your database manager... do it! Want to spell-check the text in your spreadsheet... fine. It's one of the most versatile programs I've seen, and it's available on TRSDOS for your 4 and 4P.

Anyone who attended Softcon in Atlanta in early April (more in a minute) saw IBM's booth plastered with "When you think software, think IBM" signs. It appears as if Big Blue is determined to take over the software marketplace for their hardware. If you were in the software business now, and largely concentrating on PC-DOS, wouldn't you be looking around for other baskets to put some of your eggs in? This might be a really opportune time to encourage software vendors to develop products under TRSDOS or CP/M!

We are looking at some possible ways of encouraging more third-party support for TRSDOS, but since nothing is final, it's not appropriate to go into any details yet.

MOD 4/Z-800: FACT OR FICTION?

Continuing rumor. Fiction. We have no plans for producing a Z-800 upgrade, or future Z-800 version of the Model 4. While we remain devoted to TRSDOS and CP/M in the 8-bit world, our 16-bit single user commitment is to MS-DOS, so it's safe to assume it'll be the Intel chip family. In multi-user, it's Xenix and the 68000 chip family. Sorry, but that's where the software activity will be in the 16-bit world, and availability of the "latest and greatest" software is the name of the game.

SOFTWARE REGISTRATION

We receive letters from people who have sent in their software registration cards, and

have never received mail from us. What's the deal?

Our software registration program is actually quite active. A recent letter from a Model I owner was adamant... not ONE notice from us yet! Well, that's 'cause we haven't had any notices on any Model I programs except Super Scripsit. Actually, last year we spent a quarter of a million dollars on the program, and we've sent out over 450,000 letters to date. There are some programs which haven't had notices to issue.

In some cases (probably far too many), we couldn't read the card. In some the catalog number wasn't a software package at all, but a modem, printer cable, etc. So, when you fill out those cards... print or type them, and **DOUBLE CHECK** your catalog numbers, *please!*

If you don't think your software is registered, send a copy of your original sales ticket to Customer Services, P.O. Box 2910, Fort Worth, TX 76102. Tell them you'd like to be sure your name is on the registered owner list.

And you're probably tired of hearing it, but those registration cards have ***absolutely nothing*** to do with your hardware warranty! So if you're holding them, thinking you'll send 'em in when you have trouble, forget it. Your sales slip, and the date on it, governs your warranty period.

THE SOFTCON SHOW - ATLANTA

There's been a lot of 'negative press' on the subject of Softcon... a PC industry software conference. Some of those comments seem to have originated with the larger software houses. I'm not surprised that Microsoft, Lotus, Software Publishing and that caliber of folks found the show of little benefit. Most every successful dealer already sells their products.

But... the show seems a great place to find the small software companies, the guys

without established names, and without deep pockets for million-dollar ad campaigns. Many of them have exciting products to show! The show appeared to be a good one for at least some of them. "There were lots of really top decision makers... qualified buyers, and time to give them good demonstrations of our products." The big like to get bigger, but let's hope a forum like this continues, to keep 'em honest! <grin>

WHY DOESN'T TANDY CARRY...

We get numerous questions about why we don't carry specific software or hardware items. Even general ones..."Why don't you carry *more* software for computer?"

The number one problem in the PC industry today has to be support of multiple software packages at the retail level. A lot has been written and said about it.

Fact is, a salesperson is hard pressed to be able to answer any but the most general questions about more than 3 or 4 software packages. After a customer spends the weekend working with a new program, he or she is probably a lot more expert than the salesperson. (That's one of the reasons for our new ATSO program, discussed last month).

Now, couple that with the sometimes forgotten fact that our primary business is retail, and therefore it doesn't make sense to carry more software than we can reasonably support, and you'll understand why we can't carry it all. (Some would say we *already* carry more than we can support, but I'm sure you wouldn't want us to cut the number we carry.)

One obvious solution would be to encourage software retailers to carry TRS-related software. Most of them feel Radio Shack customers won't buy anywhere but Radio Shack. Maybe clubs could help encourage them... after all, what we all want is TRSDOS supported, right? You, not we, stand the

best chance of accomplishing that. Worth a try?

AND THEN THERE'S MS-DOS!

Contrary to what you probably have read, Tandy does not look upon the Tandy 1000, 1200HD and 2000 as a "switch to MS-DOS". Rather, we consider it an entry into another portion of the PC marketplace. We're number 2 in home computers (according to Future Computing), number 1 in Xenix/Unix computers (Yates Ventures and others), number 1 in laptops (*EVERYBODY*), so we belonged in the MS-DOS market too. And now we're there, with the right products.

The Tandy 2000 remains as the top of our line MS-DOS machine. WE now have 114 software packages available in regular stock and Express Order, including some of the most popular MS-DOS/PC-DOS offerings. And packages like Open Access which are frequently criticized for being slow on the IBM PC, operate almost instantaneously on the 2000. Development, especially of non-Tandy labeled, EOS packages continues at a quick pace.

The rumor mill is rampant that we plan to bring out an AT clone. It's reasonable to assume that as new segments of the PC market evolve, we will watch each closely, and evaluate the potential viability of new products. We intend to stay in the forefront of the PC market. But, I can honestly tell you not to expect anything in the near future, and I have to end that sentence with "If at all".

There's also an interesting rumor that the tremendous (and still building) success of our Tandy 1000 had a not-inconsiderable impact on the timing of the PC Jr. decision by IBM.

Magnificent Word Processing!

If readers are looking at a direct copy of this document (not re-typed), I'm sure you've noticed some different type fonts

being used in places. It's being done with the announced, and soon to be available (early July is best guess) optional Font software for the DMP-2100p. Of course the justification and general formatting is courtesy of Scripsit 2000.

Font packages will be available for the MS-DOS machines, Model 4, and Model 6000, to work with the DMP-2100p. Expected availability dates should be in the third quarter for all of them. Using this package, it's possible to generate more than a dozen different type fonts, most of them in 3 or 4 different sizes, and even design your own!

Scripsit 2000 is scheduled for that general time, too.

MODELS 100 & 200

Model 100 continues to move well. Exciting things are happening in the non-Tandy support world. PG Design Electronics has introduced a 64K RAM add-on (that gives you a total of three 32K RAM banks!), and the Holmes/PCSG "Chipmunk" battery-operated disk drive boasts an operating system which not only closely simulates the "hidden" operating system of the Model 100, but supports random disk file access! So now you can have a disk-based file system, just like on your desktop PC, with well over 300K in your data file. Pick your degree of versatility, and run with it. The Chipmunk will eventually be adapted to the Model 200, too. And reports are that PG and Holmes are among the most responsive of vendors when you have a problem.

The Model 200 is being received well. Information has appeared on CompuServe's Model 100 SIG, allowing most PEEK and POKE addresses to be cross-referenced, so if a Model 100 program has PEEKs and POKEs, you can convert it to run on your new 200. And there's even a poke location (I haven't verified it) being claimed to force a linefeed after carriage return, for those of you with non-Tandy printers. To add the

linefeed, it's POKE 61243,1, and to remove, POKE 61243,0. Remember, this is unofficial and untested by Tandy, so I'm passing it along for you to try at your own risk.

OH, THOSE DATES !

All club members want to know a little about what's coming, so let's make a deal now! I'll tell you what I can, if you'll understand that *any* future date can change. Dates quoted will be our present best estimates, but aren't promises. Like the wine company, we can't ship a new product before its time. If last minute bugs crop up, we'll hold it.

"TANDY" OR "RADIO SHACK" ?

There seems to be some misinformation in the field about "Tandy" and "Radio Shack". As owners of our equipment, we'd sure like you to know the straight scoop.

Tandy Corporation is the parent company, listed on the New York Stock Exchange. Radio Shack is a division of Tandy Corp.

Tandy has manufacturing facilities, roughly 25 in the U.S.A., and five outside the country, plus several joint venture operations, which build about half of the products sold through our stores.

Radio Shack is the retail arm of Tandy.

So, the accurate way to describe it is to say that Tandy products (and others) are sold through Radio Shack stores.

Now, with regard to Radio Shack's retail operations, there are two separate marketing arms... our "traditional" retail stores, and our "Business Products Division", which consists of the Radio Shack Computer Centers and Telephone Centers. This relatively new division has its own separate management structure, service and support functions, and even its own advertising programs.

So, while it's a complex operation, it's really simple, once you know the story. Now you

can straighten out your friends when they get it wrong.

BYE FOR NOW.

I've bent your ear enough for one month! Remember, let me know what you'd like to hear about. We still need those user stories (any kind... not necessarily an unusual application). See you next month.

In this issue:

President's Letter -----	page 2
From Northern Bytes -----	page 5
Ask Sweet Sally -----	page 9
Tandy User's Newsletter -----	page 10

SAGATUG
837 E. Alosta Ave.
Glendora, CA 91740



Tom Wass
10501 Wilshire Blvd
Los Angeles, CA 90024

-- FIRST CLASS --