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SETURDAY FEBRUARY 17, 1996

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the VAST COMPUTER USERS GROUP can assume NO responsibility for the accuracy of the information in this newsletter or for the programs or for construction projects tried by its members or others. YOU try them at your own risk!

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INUTES

VAST COMPUTER USERS GROUP

January 13, 1996

The president, Ralph Rees, called the meeting to order at Jim Ely, has put on the BBS. 1:00 P.M. January 13, 1996, at Glandale Public Library.

First item of discussion was a new meeting place as of March 9,1996. Walt Brown has offered his home. Others will check some public buildings for openings and reasonable rates.

Ralph announced that a Disabled 286 clone was donated to the club by Al Bristol. This will be used to replace parts for the VAST BBS system. The first item to be used is a color monitor in lieu of the monochrome one. With this in place, Sysop Jim Ely is able to see the color as he applies his special magic to our BBS.

The game "Trade Wars" is being used a great deal on the As most of you know already, there is a Bulletins menu on BBS. Walt brown made a motion to buy this game in the the board too. Recently I have been looking at some of name of Al and Charlie Bristol. This motion was seconded these, which I don't take time to do very often. I have Slots" as permanent games that was bought by Kevin and there is something new there, so those of you who think Ralph Rees for the club.

It was announced that next month is the FEST WEST '96 and if you buy 10 lottery ticket for the many prizes, a free door ticket is received. The VAST has a table reserved for this event.

Ralph also reported he received and welcomed an envelope of items from Bill Gaskill to be used in the Newsletter.

The Treasurers report was given with a total for the New Year of \$612.34 but with BBS and Newsletter expenses out standing. The annual dues are due as of the January meeting (now).

Jack Workman our Vice President donated a 80 column card to the club and some printer ribbons (from a demised AMS card was discussed along with new meeting place Sysop a note on the BBS and he will help you out. opportunities. The Business part of the meeting was adjourned.

VAST Secretary, Hazel Knight

BY CHARLIE BRADBURY

The VAST Connection BBS is still going strong. For those of you who don't have a modem, or haven't called recently will update you on the great features our beloved Sysop,

First off, he has put a feature on the BBS called a door menu. On this menu you can choose from a number of games to play by selecting the number beside the desired choice. From there the computer goes off of the regular BBS, and goes in to the game that is on the system. You can play the game for the time alloted, then you can look at scoreboards, play-off tables, and your basic info. Then, when you Q)uit the door, or game, the BBS will close down the door menu and return to the normal BBS. The door menu consists of Super Slots, TRI-Mail, Real Time Connect Four, and many, many other things that will make you want to stay on line for the rest of the day.

and passed. It will now join "Eclectic Ave" and "Super noticed that just about every time I log onto the board that it is always the same, it's not! The options that have a star next to them are the ones that you security level depends on, if you have a low security level you might not get to read them!

> The board now supports three terminal settings 40 column, 88 column ANSI graphics, and RIP Script graphics. Hear that?, all of you with IBM's can call too! I mentioned the Door menu above, well you are going to need an 80 terminal program to play those. If you don't have one already try ordering Jeff Brown's TERM-80. It will support 80 column ANSI graphics, and get you playing those games.

There are also lots of short-cuts to the BBS too! For example, when you log on try entering you name, then a semicolon, then your password(nospace between semicolon & password). It will bypass the prompt to put your password printer) to Harry Sutton and Al Bradbury. He returned the in and put you right into the BBS. If you want more club AMS Card and Jim Wayne will have it this month. The information on what other short-cuts there are drop the

see "CHARLIE". Dege 4

VAST NEWS

THINGS THAT HAVE COVE AND BONE THAT KEVER NERE

article by Bill Gaskill

February 1996

OLDIES BUT GOODIES: Flyer time. If your newsletter editor has the space, I've sent along a flyer this month that is a copy of the great "high score" modifications one can make to M6's NIGHT MISSION game. The idea and the instructions come from the ever creative Ray Kazmer, who will forever be remembered for writing the "awesome" Woodstock Christmas program.

(Editors note - photo copies of the above flyer will be available at the February meeting.)

Houston User Group.

digging into and writing about most aspects dealing with FORMAT because it is a program segment, something that we the history of our computer, but none more than the will discuss in article #7. Assuming that you have the cartridge software that was announced, produced or planned data disk ready and that you have II-Base up and running, for the II-99/4A. This article, which is reprinted from from the dot prompt type in: the July 1983 issue of the Houston User Group's HUG newsletter, is a treasure trove for both history and cartridge information. The original report was written by Jane McAshan, a Houston area computer retailer and CREATE is the directive that is typed in at the dot prompt Computer Age business owner, who was also a member of the to start any new file. Besides typing in CREATE NEWSIDX Houston 99ers. My sincerest thanks go out to Mr. Richard you could also have typed in CREATE DSK#.NEWSIDX, where Lumpkin of the Houston Users Group for providing me with the pound sign is the number of the disk drive where the back issues of the club's newsletters so that I could file to be named NEWSIDX is to be created. uncover such jewels as this McAshan treasure.

software products that were announced, but never produced, next field. The CREATE editing line appears as follows: and others that the code exists for but that were never "put in a can" (placed in module form) as Ken Hamai used to like to say, and at least one other that actually did heard of. Hope you enjoy the reading.

Bill Gaskill Dec 1995

HOUSEHOLD MONEY MANAGEMENT: I discovered this cartridge in Records saved to disk under one structure, with one name, a brochure made for distribution outside the U.S. It may make up a FILE. be a European version of Household Sudget Management, but can't tell from the photo. The prochure is data 11/24/83.

see "THINGS", page 4

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CREATING A TI-BASE DATA FILE

To illustrate what you will end up with after a file has been designed and then saved to disk, we will create a sample file that you could use to store data from back issues of your User Group newsletter. But before a file can be created we will need to have a data disk to store it on. So first make sure that you have a newly formatted COLLECTING CARTRIDGES - NEW DISCOVERIES: Article by Bill floppy disk available, and that it is in the active Gaskill and Jane McAshan, who was a former member of the DATDISK drive. If you are operating with multiple drives you may do so by loading TI-Base and then typing in the FORMAT directive or you may of course use your favorite As most 99ers know, or have at least heard, I enjoy disk manager. Single disk drive owners cannot access

CREATE NEWSIDX

When you enter CREATE NEWSIDX the CREATE screen appears Between Jane's article, the always welcome assistance of and displays a message that advises you to press the space best friend Steve Mehr, and my own never-ending search for bar to change (toggle) the data types in a field and that new information, I have uncovered several cartridge you need to press (ENTER) to advance the cursor to the

FIELD DESCRIPTOR TYPE WIDTH DEC

get produced for European distribution that I had never Like most traditional data base and file management programs, II-Base subscribes to the field, record, file format. That means that NEWSIDX will be a file, that contains individual records, and each record will be made up of from 1-17 fields. A FIELD is the smallest element of a file. Data collected in fields make up RECORDs.

see "GASKILL", page 3

produced? Although it lacks some of the nice sounds of the cartridge. PHT 6103 \$19.95 Atarisoft program Pole Position, it is virtually neat game officially released for the TI-99/4A.

REPORT ON THE SUMMER 1983 CONSUMER ELECTRONICS SHOW

Chicago, IL-The 1983 Summer Consumer Electronics Show was held here from June 5-9 at McCormick Place, McCormick West, and assorted hotels around town. More than 80,000 visitors were present for the giant convention to see the latest and greatest items for audio, video, games and computers...

Of course the items which were of interest to me and the HUG were at NcCormick West. Here there were 150,000t the screen with one of the words in far quadrants (sic). square feet of exhibit space devoted to computers and video games. There were a few companies who had booths at builder for players of all ages. (OLM Academics). PHM McCormick Place (Atari, Panasonic), but the ones 3185 \$39.95 (At the DLM booth, they said there will be 4 displaying the items relating to our computer were at more word games available within the next year). McCornick West.

When I arrived on Sunday afternoon, the first place I and your mission is to capture treasures stolen from photo (sorry, I couldn't duplicate the photo, BG), I menacing creatures to save the world's most valuable didn't have to look far! The huge 2-story exhibit was the treasures! A one-player game which tests your skills in authorized 3rd party people, Scott-Foresman, Adventure \$39.95. International, Milton Bradley, Scholastic, Addison-Wesley, Milliken and OLM Academics. TI's major hardware SNEGGIT -- Save the eggs! Hungry snakes are in the announcement was a Direct Connect Modem compatible with barnyard, devouring your eggs by the dozen. You must the Hex-Bus for \$99.95. There had been many rumors in the survive the reptilian attack and save as many eggs as press, and were in the Show Daily papers (sic), about possible. PHM 3145 \$39.95 other new hardware items, however no official Computer Division that they will not announce ANY new can use to grab at goodies along the highway. But don't hardware until they are certain they will be able to ship forget about fuel...or you won't have a nice trip. PHM it within approximately 60 days. Future announcements 3146 \$39.95 will not be made solely at the Consumer Electronics Shows, but at appropriate times during the year. II did announce ENTRAPMENT -- You are in command of a space ship that several new software items.

THE RACE: This is a Pole Position clone written by Glen window, 80-character line); 9500 characters stored per Groves when he was running Software Specialties out of his file; add/delete characters or line; moveable copy; upper home in Evergreen, Colorado. The code came to me via and lower case characters; save/load to and from any Steve Nehr in Thousand Daks, CA, and the program actually storage device; print via the Peripheral Expansion System has no title on it. There is just a 1983 copyright date or Hex-Bus RS-232 to printer; search for desired and the "Software Specialities" name when the game first information; scroll screen; purge text buffer; and cancel boots up. I have no idea why the program was never commands. Requires cassette recorder and Mini Memory

identical the the Atarisoft game. Perhaps there were some EARLY LOGO LEARNING FUN -- Contains a selection of the licensing or possible look-and-feel (copyright best LOGO procedures in a format designed for preschool infringement) problems that prevented us from getting this children (not a scaled down 1060, but some of the Lamplighter procedures from the Curriculum Guide, useful for 2-5 year olds). \$39.95

> WORD INVASION -- A friendly alien octopus protects her underwater territory from a screen full of invading words with a magic ring that moves from arm to arm, firing at approaching words. The player must match the appropriate word with the part of speech that appears below the alien octopus. Players practice identifying the six major parts of speech. (DLM Academics). PHN 3169 \$39.95

> WORD RADAR -- You're a control tower operator scanning for words in four quadrants. The words appear for a few seconds then disappear. You must use the radar beam to scan the quadrants and match the words at the bottom of A challenging visual memory and discrimination skills

MOONMINE -- You are the captain of the U.S.S. MoonMine looked for was the II booth, and as you can tell from the Earth. Battle against the mighty Zygonaut and his first one inside the door of McCormick West. There was a strategic planning and quick thinking. This package was large display of assorted software, from II and their featured in the Software Showcase at CES. PHM 3131

announcements were made. II has a new policy in the Home MUNCHMOBILE -- Not your average car! It has arms which you

patrols Earth's atmosphere. Suddenly, the Earth is under attack. A legion of hostile larvae is entering the II MINI-WRITER -- a mini-word processor with features atmosphere. These creatures turn into ravenous insects including; full screen text editing (24 x 40 character and attack the Earth. Unless you immobilize the creatures

see "THINGS", page 6

VAST NEWS

शिरिये में शिरियेंग्री BY RENE' LEBLANC

In the last issue of "WHEREFORTHS" I introduced the idea of the underlying Forth Virtual Machine. Let's use "FVM" the for short. In this issue, I'll begin to introduce some of ELEMENTS OF BASIC PART 9 the main components of the FUM.

As you may already know, the FUM is a stack-oriented machine rather than a register-oriented machine. There In addition to using the READ...DATA and LET statements are two stacks: the Parameter Stack, just called "the for entering data into memory, the INPUT statement allows Stack" and the Return Stack, called just that. These values to be entered while a program is in progress. When stacks are both "LIFO" stacks where the values that are an INPUT statement is encountered in a running program, pushed onto the Stack are normally accessed in the reverse the computer cannot continue until data has been entered order they were put on. In other words, the Last In is via the Keyboard. the First Out (sort of like trays in a cafeteria).

Whereas we talk of "statements" or "procedures" or simple INPUT statement: "subroutines" in other languages, in Forth we talk about "words". A Forth "word" is the Forth equivalent of a subroutine in other languages. In forth circles, "word" is not generally used for a unit of memory. Instead, the The INPUT statement causes the computer to sound a "beep", term "cell" is used to denote a 16-bit memory unit.

Words do most of their data manipulation on the Stack (Parameter Stack). They also receive their input parameters on the Stack, and they leave their output results on the Stack.

The Return Stack is used to store the return address where control is to be returned after the word reaches the end of execution. The Return Stack is also used to store loop indices during loop execution. The programmer can also use the Return Stack as a temporary location to hold a value, but he must always clear it off before reaching the When the input error occurs, the INPUT statement will word.

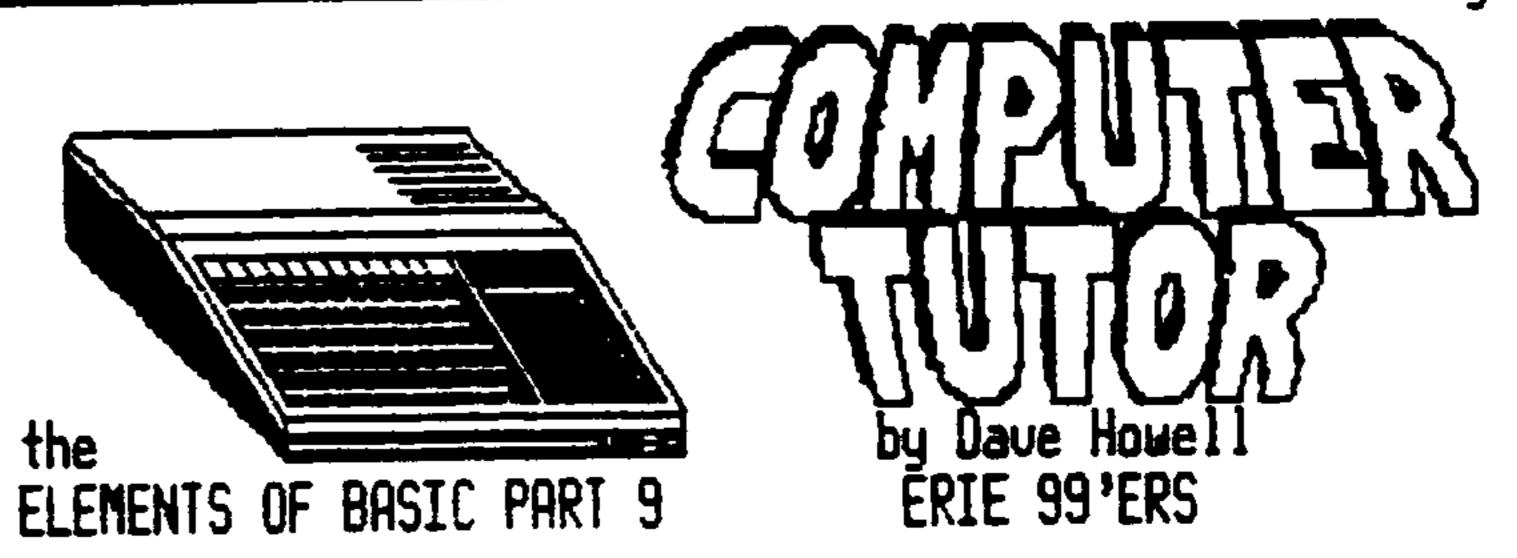
The most usual way to define new Forth words is with the "defining" word that lets you define new words as a single INPUT statement. sequence of previously defined words. A semi-colon (;) indicates the end of a colon definition. In the abstract

: **! ! ! ! ! ! ! !**

is a colon definition defining a new word "W" to be the sequence "X Y Z", where X, Y and Z are some previously defined Forth words.

the Forth object code. In a future issue I will explain alphanumeric data for variables ending with a string some of the details of how Forth dictionaries are character (\$) and numeric data for non-string variables. organized, but for now I only want to introduce it as one If the data does not match the respective variable in the of the FUM's major components.

see "FORTH", page 8



The INPUT statement.

The following statement demonstrates the format of a

18 INPUT A

print a question mark, and wait for data to be entered. When the ENTER key is pressed, the program will resume.

The type of data entered at the keyboard must correspond to the type of data specified by the variables in the INPUT statement. If the wrong type of data is entered, the following warning message will be displayed:

> WARNING: INPUT ERROR IN 18 TRY AGAIN:

end of the word's execution or before reaching a loop automatically be repeated. As a result, an INPUT statement will not allow the program to continue until an appropriate value has been entered.

"colon definition". Colon (:) is a special Forth The values for several variables can be assigned with a

20 INPUT A\$,B,C\$

When responding to this statement, commas must be used to separate the data, like this:

TELEPHONE, 814, AREA CODE

The data entered in response to an INPUT statement must ALL Forth words are compiled into a "dictionary", which is match the type of variable in the same order; that is, INPUT statement, a warning message will be displayed.

see "BASIC", page 9

BLOCKBUSTER AUTHOR UNKNOWN ********* :: 60SUB 330 D=5 TO 7 :: CALL COLOR(D.16 ,e) :: NEXT D 120 FOR E=3 TO 4 :: CALL COL GOTO 260 ":: CALL CHAR(39, A\$, 42, A\$) 130 CALL CHAR(94, A\$, 96, A\$, 97 ,"FFFFFFFFFFFF,114,"3C7 EFFFFFFF7E3C") 140 DISPLAY AT(3,4): "'' LOR(e,13,e,_,7,e) :: DISPLAY AT(6,4): "********* * * * :: DISPLAY AT(9,4) :150 DISPLAY AT(12,4): " ^ ^ AAAAAAA *** CALL COLOR(8,5,0) :: F=23 :: G=15 :: H=3 :: I=12 :: J.K=e :: CALL HCHAR(F, G, 96, 3) :: CALL HCHAR(24, e, 97, 32) 160 DISPLAY AT(e,4): "BALLS *";B;TAB (17);"SCORE:";C 170 CALL KEY(e,L,M) :: IF L= - THEN 180 ELSE IF L=3 THEN 200 ELSE 220 188 G=G-_ :: IF G<e THEN G=e 190 CALL HCHAR(F,G+_,32,3): : CALL HCHAR(F, 6, 96, 3) :: 60TO 220 200 6=6+_ :: IF 6>29 THEN 6=

210 CALL HCHAR(F,6-_,32,3): : CALL HCHAR(F,6,96,3) 258 H-H+7 :: I-I+K :: CHLT C CHAR(I,H,N) :: IF N=96 THEN 260 ELSE IF N=97 THEN 270 EL SE IF N=94 OR N=39 OR N=42 T HEN 290 230 IF H(_ OR H)30 THEN 250 ELSE IF I < THEN 260 240 CALL HCHAR(I, H, 114) :: C ALL HCHAR(I, H, 32) ** 6010 17 250 J=-J :: CALL SOUND(30,38 0,_) :: IF I>e THEN 170 260 K=-K :: CALL SOUND(30,38 0,_) :: GOTO 170

!*********************** 278 B-B-e :: I=12 :: H=3 :: * FOR 0=e TO 500 :: NEXT O :: * IF B=[THEN 310 * VAST News Vol 12 #2 1996 * 280 DISPLAY AT(0,4): "BALLS "; B; TAB (17); "SCORE: "; C :: GOTO 170 100 e-1 :: _-2 :: CALL CLEAR 290 CALL HCHAR(I,H,32) :: C= C+21 :: A=A+e :: IF A=45 THE 110 A-e : B-9 : C-[: FOR N CALL HCHAR(F,6,32,3) : Ae :: GOTO 140 300 DISPLAY AT(€,23) : C :: OR(E,16,0) :: NEXT E :: CALL 310 DISPLAY AT(0,4) : "BALLS COLOR(9,15,0,11,16,0) :: CA :";B;TAB (17);"SCORE:";C :: CALL $HCHAR(_,e,32,568) :: F0$ $RD=_TO8::CALLCOLOR(D,1)$ 6,e) :: NEXT D :: DISPLAY AT (23, 2): "PRESS REDO(R) OR QUIT(Q)." 320 CRLL KEY([,L,M) :: FOR 0 -e TO 100 :: NEXT O :: DISPL AY AT(12.7) : "6 A M E 0 U E R" :: FOR 0=e TO 100 :: NE XT 0 :: DISPLAY AT(12.7) :: IF L-81 THEN STOP ELSE IF L-82 THEN 110 ELSE 320 330 CALL SCREEN(_) :: CALL C HAR(42, *FFFFFFFFFFFFFFF) :: PR INT "XXX##X#XXXX#XX#X": "X 特费米特米特米特米特米特米特米特米特米斯米_A: _A米特洛米 特林关格关格特格特 A : *********************** #X###X₂₀ 350 PRINT "X##X#X##X#XXX###X 特特特米米特替米₂₀: 3.米米米特米特米特米特特 X**#**X###XXX₂: ₂X##X₂: ₂XXX₂: : : :: CALL COLOR(_,16,e) :: FOR D=8 TO 20 :: CALL SOUND (-100, -3, 0) :: NEXT D360 FOR D=20 TO e STEP -e :: CALL SOUND(-1000, -3, D) :: N EXT 0 :: FOR H=3 TO 16 :: CA LL COLOR(_,H,e) :: FOR I=e T 0 50 :: NEXT I :: NEXT H :: RETURN

THINGS continues

and form an impenetrable shield, they continue to threaten the planet. Requires Mini Memory cartridge and cassette recorder.

Milton Bradley announced 10 new games, 4 of them are for young children; Terry's Turtle Adventure and I'm Hiding will require the MBX Expansion System which retails for \$129.95. The other games are:

CHAMPIONSHIP BASEBALL -- Dazzling diamond action with a computer umpire to call out the plays. Realistic player movements and ballpark music. Requires the MBX Expansion System. PHM 3148 \$59.95

SPACE BANDIT -- Snatch up space crystals in a 3-D maze, chased by deadly droid guards. 3-D movements and visual effects. Activate shields or be hurled into space. PHM 3149 \$49.95

BIG FOOT -- Can you dodge eagles and boulders to climb high to capture Bigfoot? Six mountains, each more challenging than the previous. Pick up supplies and gold for bonus points. Throw out rope and align your climber. PHM 3151 \$49.95

SUPER FLY -- Destroy the alien spiders before the next batch hatches and gets you! Watch eggs develop into spiders before your eyes. Maneuver your fly into position and zap the spiders. PHM 3153 \$49.95

SEVERMANIA -- Defuse a time bomb in a sever filled with Killer rats and alligators! Pick up a shovel to bash the rats. Turn generator to flood sewer and drown rats. PHM 3150 \$49.95

METEOR BELT -- Let your computer co-pilot warn you of enemy ships in this daring space duel. Destroy meteors and rival spaceships. PHM 3152 \$49.95

An agreement was announced with Fox Video Games to license their games for the II. The first one to be released will be-

MXAXSXH -- Airlift soldiers wounded on a battlefield to the 4077 MASH unit. Time is running out for the wounded and you must save their lives. 1 or 2 players. PHM 3158 \$39.95

II also announced a major license agreement with IMAGIC to make certain of their games available on the 99/4A. display at the TI booth were DEmon Attack and Microsurgeon. Also at the IMAGIC booth were MoonSweeper, Fathom and Wing War.

You can be sure that II has more license agreements up their sleeves, and more software coming from present companies. Even if we were to rely on II cartridges alone there is a lot of new, quality software coming out in the next 6 months. However, as I found when I ventured further in CES, there are a number of companies releasing software for the II-99/4A, cartridge and cassette based.

A visit to the Emerald Valley Publishing booth found Gary and Pat Kaplan busy promoting not only the 99er (magazine) but several new books (the Best of 99er really looks great!), but also their new line of cassette based software. You'll find pictures of the covers in the back of the June 99er. Several of the programs look good, and the idea of combining a game program with a programming tutorial is good.

Scholastic Inc. announced a series of new cassette based educational programs for the II (and others).

TURTLE TRACKS -- Use simple commands to draw pictures and patterns and make melodies.

ELECTRONIC PARTY -- 2 games, Surprise...open the presents on the screen for surprise activities; (and) Make A Card...create original electronic greeting cards.

SQUARE PAIRS -- Matching games of memory and imagination, use theirs or create your own. Scholastic promises more packages to come.

As I explored the exhibits, I saw more and more companies with cartridges for the II-99/4A! This despite II's stated opposition to non-authorized 3rd party cartridges. For those of us who have the current 4A there will be no problem (just don't let II touch it, or they will supposedly not run 'foreign' cartridges without violating players. one of II's patents. It should be interesting to see how developments are as follows.

Funuare was exhibiting several new programs, they guarantee that their programs WILL run on all future Completely new to the home market is SEGA, maker of arcade versions of the 99/4A (they have an agreement with TI games. After licensing ZAXXON to DataSoft, they decided which covers at least some of their line). That agreement to enter the market for themselves. Their first titles might have something to do with the reason Creative will be available for the Atari, VIC-20 and II. Software recently purchased Funware! Driving Demon and Ambulance should be out in July, with other titles such as St. Nick and Cave Creatures to follow shortly. Creative Software plans Astroblitz, Trashman and Rat Hotel for us.

One of the new entrants to the 99/4A market was Thorn EMI, and it looks like their titles should be available by August or September. The games were actually RUNNING on 99/4As and the graphics looked super!!

RIVER RESCUE -- Navigate a treacherous river and save the refugees: 6 game variations, i or 2 players.

SUBMARINE COMMANDER -- Sub patrol simulator to hunt and destroy enemy shipping.

WAR GAMES -- Save the world from a nuclear holocaust! Their newest game and the graphics have to be seen to be believed.

Epyx Computer Software plans to make several of their programs available for the 4A, seven on cartridge and six on cassette. The cassette titles include Seawolf, Spectar, Gun Fight, Circus, Starfire, and Fire One. The cartridges are:

JUMPMAN JUNIOR -- 12 screens featuring electrocution traps, moving walls, hellstones, and other dangers.

PIISIOP -- Fast paced racing action plus the strategy of the pits.

GATEWAY IO APSHAI -- 8 different screens with 50 chambers per screen. Explore the dark labyrinth of rooms and twisted caverns which lean to the fabled Temple of Apshai. Glorious treasures and nasty monsters.

LUNAR OUTPOST -- Alien invaders are preparing a full scale invasion of Earth, and your Lunar Outposts are all that stand between the invasion force and ultimate defeat. Strategy and 3-D graphics are featured.

SWAT RESCUE -- Police action plus strategy and planning are combined in this new high-resolution graphics game.

"upgrade" your 4A!). Future versions of the 4A, such as SILICON WARRIOR -- 3-D graphics, characters that disappear the cream colored ones coming off the lines in July, will and reappear and real time competition for up to 4

the whole thing comes out. Some of the more interesting FUN WITH MUSIC -- Learn and play music on your video screen, easy to use with its handy Keyboard overlay, the perfect blend of education and fun.

CONGO BONGO -- Climb impossible cliffs, cross treacherous lakes, dodge coconuts, leap over poisonous snakes and outsmart charging Rhinos in your attempt to capture Congo Bongo.

BUCK ROGERS: PLANET OF ZOOM -- Terminate the evil enemy Source Ship, but first fly through enemy infested surface channels and smasher tunnels, around city spires and against an endless array of bizarre alien ships.

see "THINGS". page 8

Federation's deadliest enemies.

One of the major announcements at the CES was the formation of a new division, Atari Publishing. They will be producing proven programs for a wide variety of machines, IBM, Apple, Commodore 64, VIC 20, and TI-99/4A. early fall, and include not only familiar titles from this is not the case. Atari, but 4 which are licensed from Synapse Software.

CENTIPEDE -- Armed with a bug blaster, zap through an that Virginia and I have worked for over the past 20 years invasion of creepy crawlers who threaten the mushroom to assure that our creditors and members are satisfied. patch.

DEFENDER -- The only protection left to the humanoids, the target of the crazed invaders.

DIG DUG -- The search beneath the earth yields a bounty of fruits and vegetables, but also Fygars and Pookas.

PAC-MAN -- Gobble the dots, and avoid the goblins.

DONKEY KONG -- Rescue the Fair Maiden by helping Mario MAY 1985: Claudia Cohl, editor of Family Computing magnegotiate girders, elevators and treachery.

SLIME -- The diabolical alien plan is to raise the level of the Earth's oceans to drown out all life so the slike breathing invincibles can colonize.

PROTECTOR -- The Frauxillian Slimehordes are attacking Be there or be square. I'll be there along with Steve your cities and carrying off their citizens. Can you get Mehr and Roger Merritt of Comprodine and I don't know who your people to safety as volcanoes erupt and enemy forces all else yet. conspire to thwart your every effort?

PICNIC PARANOIA -- Can George be fast enough with his swatter to keep the ants and other pests from walking off FORTH continues with his meal?

32 rooms, each with bristling danger.

THINGS THAT NEVER WERE:

On April 24, 1985 IUG founder and president Charles LaFara placed the following message on CompuServe's II Forum.

"The IUG (International 99/4 Users Group) has filed for protection under Chapter 7 of the Federal Bankruptcy act. All software library orders received on or before April and hitting Enter. They can also be executed by loading a 30, 1985 will be shipped prior to May 30, 1985. We highly Forth Screen that has the word on it, but now we are regret this action but have no alternative at this point. getting into the subject of a future issue. The current library as well as some 400 new programs have been kept intact and will be marketed by a newly formed Just to give you something to try out, boot up your Forth company which will be announced 6/1.

STAR TREK -- You decide when, where and how to use the This new company will use the current IUG catalogs and Enterprise's Harp Drive, Impulse Power, Photon Torpedoes program numbers so there will be no confusion to new and Phasers as you battle with the dreaded Klingons, the members. I personally feel deeply saddened that the quality of service that we strived for over the past 5 years has suffered so in our last 6 months of operation and hope that our thousands of members and friends can understand that we did everything in our power to continue to support our members to the bitter end. For those hostile members who seem to think that I have ammassed a The first programs to be offered should be available by personal fortune from the IUG please rest assured that

The fact is that we currently stand to lose "everything"

- Charles LaFara -

As we all know, the "new company" never came to be. In fact, the huge library of user written programs that LaFara had accumulated were left in the able hands of Dr. Guy Steffen-Romano, who do led then out with the proper sense of propriety in the years following the demise of the IUG.

azine, announces their decision to drop TI-99/4A support as a result of little or no advertising revenues coming in from the very few TI-99 vendors and businesses left.

FEST-WEST '96: It will be held in TUcson, Arizona again, compliments of the Southwest 99ers, on February 17, 1996.

=eof=

In summary, I have introduced three major FVM components; SHAMUS -- The Shadow is there - in one of four levels of the Parameter Stack, the Return Stack and the Dictionary. We have seen that Forth Words may be defined as a sequence of other Forth words, using the "colon definition". The first identifier following the "" is the name of the new word, and the ";" is sort of like the "return statement". All the other identifiers correspond to previously defined words that are to execute in the sequence indicated when the new word is executed.

Forth words can be executed simply by typing in the word

system and put in the following definitions:

see "FORTH", page 9

GASKILL continues

In TI-Base the Field column is automatically numbered from In this example of the INPUT statement I to 17 as you create each field in the record. The DESCRIPTOR column allows you to enter up to 18 characters to describe or name the input field. Aside from the underline and pound sign characters, you will find that only normal letters and numbers are allowed in field names. The TYPE column is used to define the data that will be entered into the field. Three data "types" are supported, Character, Date and Numeric. You may choose the appropriate type by pressing the space bar to toggle through the available choices or you may simply type in the letter C. D or N to designate the data type. The WIDTH field allows you to specify a maximum length for the input in the field. A maximum of 255 characters per field II-Base automatically inserts an "8" as the field width. The DEC column lets you specify the number of digits to appear to the right of a decimal point in a numeric field. be considered as a single value. A range of 0-99 is permitted.

When you have defined the first field in any II-Base data base you simply press (ENTER) at the last column of the field and the cursor drops down to the next field definition line. If you are done defining the file simply press F8 to save it. Pressing F9 will abort the effort. Once you press F8 the file definition is written to the data disk, under the name you specified but with a 15 extension, and is then ready to accept record input. In would cause the following message to be displayed: fact, you will be asked if you want to APPEND records immediately after the file definition is saved.

To create NEWSIDX Key in the following structure.

FIELD	DESCRIPTOR	TYPE	WIDTH	DEC
	SUBJECT SOURCE TYPE DATE PAGE			

-cof-

FORTH continues

: GREET CR ." HI THERE!";

: GREETINGS 8 DO GREET LOOP;

Now, if you type "Greet" Forth will respond with "Hi There! ok". (Forth always acknowledges you with a friendly "ok" if it understood the last command.) Now, try "5 Greetings", or "40 Greetings", or whatever. You must always place a number on the stack before using the word "Greetings". That's the way it is defined.

BASIC continues

10 INPUT A\$,B\$,C\$ 20 PRINT A\$ 30 PRINT B\$ 40 PRINT C\$ RUN

? DESK, CHAIR, "PENCILS, PENS" (--user's response) DESK CHAIR PENCILS, PENS

is permitted. If you specify a Date field type then The data PENCILS, PENS would generally be considered by the computer as two separate values for C\$ in the INPUT statement. However, the quotation marks allow the data to

> It is good programming practice to include a prompt message in an INPUT statement. A prompt is used to indicate the exact type of data required.

For example, the statement:

10 INPUT "CUSTOMER NAME?": A\$

CUSTOMER NAME?

The prompt message in an INPUT statement must be enclosed in quotation marks and followed by a colon. The list of variables must follow the prompt message.

When a prompt message is included in an INPUT statement, the question mark (?) will not automatically be displayed. If a prompt message is included, the prompt will be displayed exactly as it appears in the INPUT statement.

CHARLIE continues

If you notice something is wrong, missing, or if you have a suggestion that would make the VAST Connection BBS any better tell the Sysop. Meanwhile, Keep calling in, and for those out there who haven't called before call today at:

Keep those calls coming!

PUAST USERS GROUP INFORMATION

The VAST COMPUTER USERS GROUP is a support group for the Texas Instruments TI 199/4A Home Computer and Geneve.

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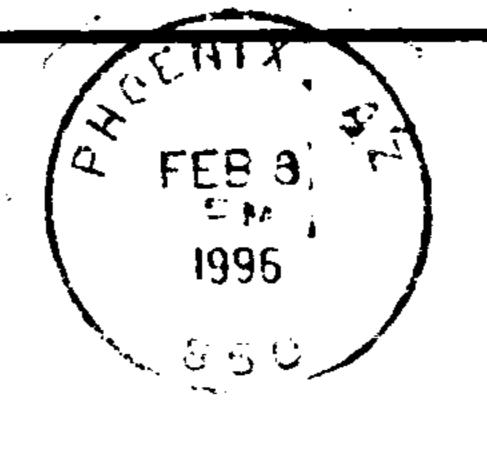
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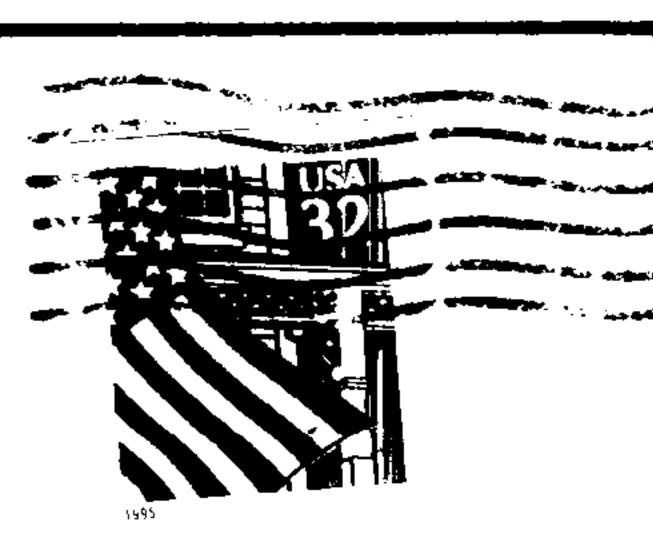
MEETING YOU'LL NEED TO CALL AN OFFICER.

THIS REWSLETTER IS CUMPOSED IN ITS ENTIRETY USING A TEXAS INSTRUMENTS TI-99/4A COMPUTER.

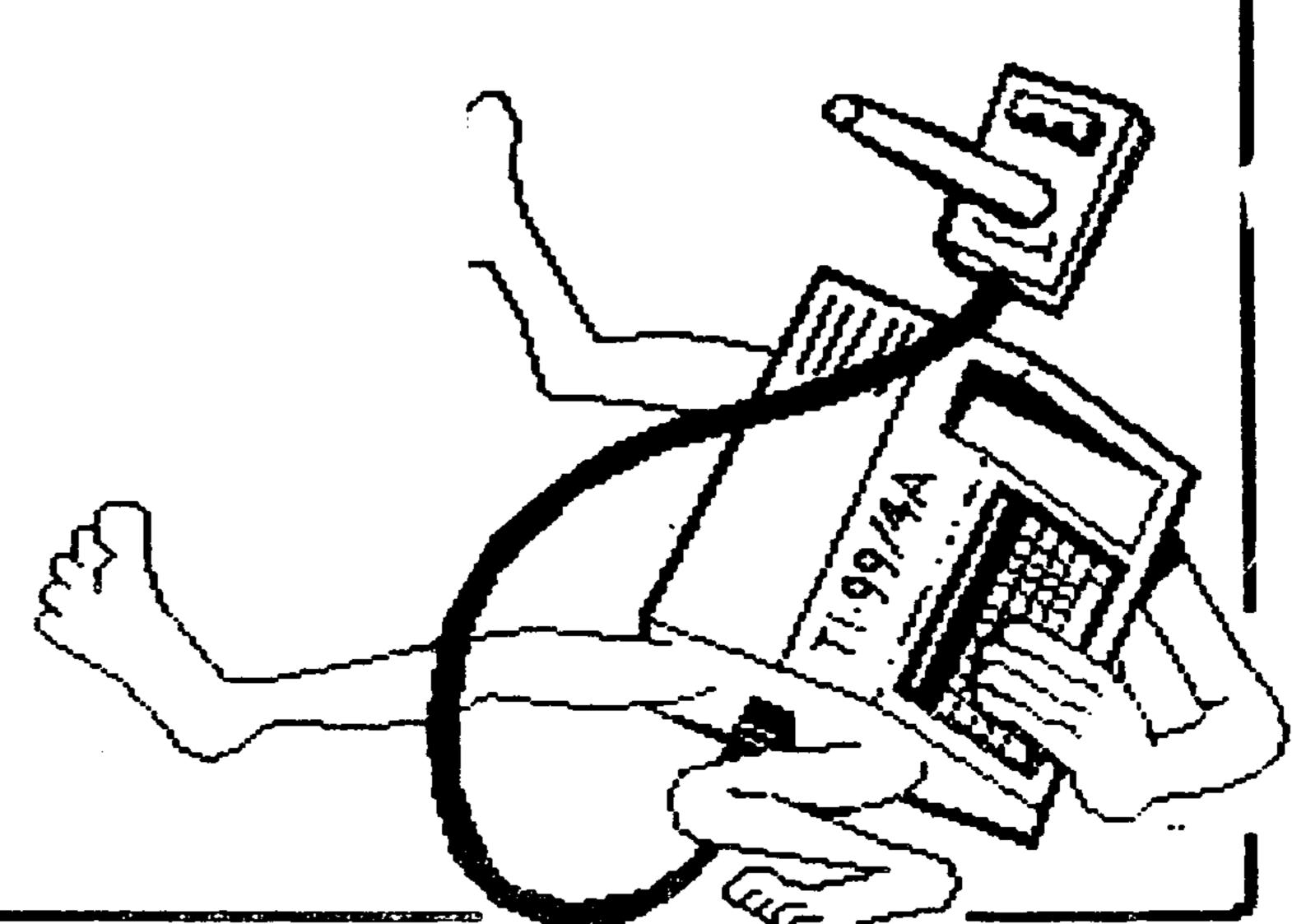


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