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### WORD PROCESSORS FOR THE ST

### HOW THEY STACK UP

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#### **REVIEWED:**

Desktop Publishers ICD's Fast Tape Backup MitchTron's PC Speed Lucusfilm's Maniac Mansion SSI's Star Command Atari's Lynx Game System



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- Nearly unlimited possibilities for the manipulation of text, characters and text attributes such as:
  - rastered, transparent, outlined, rotated, stretched, compressed and cursive stylos...
  - circular text and text along a freely-defined vector path...
  - projection of raster areas and text on vector outlines...
  - conversion of text into vector objects...
  - kerning functions...
  - Functions can be freely combined and applied to all CALAMUS fonts.





- Integrated, fully programable calculator with a pre-defined and extendible library of transformations such as:
  - shift, rotate, mirror, enlarge/ shrink, project onto a sphere (globe, cylinder, cone), etc..
  - An intelligent clipboard and copy functions, allowing the automatic generation of transformation sequences.
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It's professional golf at its best with the game's most aggressive and successful player, Greg Norman . . . a state-of-the-art golf simulation with more realistic three-dimensional graphics than you've ever seen before!

Rich in detail, Shark Attack is packed with features not included in lesser games, including:

- Pre-game Practice, Matchplay, Greensomes, Strokeplay, and Texas Scramble, all handicapped according to adjustable attributes, with single and team play options (up to four players).
- A professional caddy who can recommend the club to use for each shot.
- On-screen ability to design your own swing, for a game which is more dependent on skill than luck.
- Greg Norman's swing digitized for your instruction in the best golfing form.
- Ability to open and close the club face and adjust the loft, totally on-screen, for greater control.





- A 3-D perspective, which can be rotated through 360 degrees from any point. You can really walk each hole, and study the lie of each shot just like you would on a real golf course (one of the features that make this a simulation, not just a game).
- Changing wind and weather conditions, to add to the challenge.

Greg Norman's Shark Attack: the first true golf simulation, produced under the guidance of the Great White Shark himself As on the pro circuit, total concentration, strategy and control are all required to come in under part



AVAILABILITY	
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New source level debugger, csd, cuts development time in half!

Now, on ton of the world's best C compiler Mark Williams brings you cad the world's only source level debugger for the Atari ST

With csd, you actually debug in C. Forget about trying to find bugs in clunky assembler and struggling with long dumps, csd gives you the interactive advantages of an interpreter plus the speed of a compiler An

indispensable companion for Mark Williams C.

Reviewers have been raving about the IBM version of csd for years:

"end is close to the ideal debugging environment ... a definite aid to learning C and an indistensable tool for proaram development."

"This is a nowerful and sophisticated debugger built on a well-designed, 'serious' compiler.'

-Ionathan Sachs, Micro/Sustems Journal

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#### WE'VE HPPED COMPILER PERFORMANCE, TOO

Our new Resource Editor makes creating window driven interfaces with icons alerts null down menus and dialogue boxes a snap. And its exclusive compiler/decompiler lets you directly access resources, making changes

quick and easy while simplifying project management. Unparalleled compiler speed, fast, compact code complete utilities and outstanding documentation have made Marit Williams C the preferred compiler for the Atari ST Reviewers enthusiastically agree

"Mark Williams C may be the best implementation of C on the Atari ST to date ... not only for the experienced, professignal developer but also for the unebend programmer -George Miller, COMPUTEUS Atori ST Disk and Maagzine

the all-around best choice for serious software development on the ST

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-Douglas Weir, Anglog Computing

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#1 Guide To Atari ST



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### Editorial

#### DOUBLE-SIDED DISK DILEMMA

he START disk has now been double-sided for six issues -enough time to gauge whether or not you like it. Well, we found out.

The idea of a double-sided START disk has always been appealing, because we found that we could give double-sided

drive owners more, and do so without leaving single-sided drive owners behind. Overall costs to us were minimal, so the price of the magazine wasn't affected. We thought you'd love it.

Then the letters can

Before the double-sided format, START routinely received "damaged" disks for replacement. The problems ranged from had file sectors to a physically bent disk. The percentage of damage was significantly low.



With the November issue, however, your letters began to pour in. Some of you were

delighted, some of you were outraged but too many of you returned your disk for replacement. This wasn't just one or two isolated cases. And all of your troubles with the disk were individual and varied, so it was difficult to pinnoint the problem and resolve it.

One thing, however, was clear: the Heidi-formatted, double-sided disk was indirect and confusing. Something had to be done.

#### **That Something**

This is the last issue that will include the format. This does not mean that the START is abandoning the double-skied concept. We want to give you the most we can, but obviously, we need to make it accessible. So, we're currently (and feverishly) searching for a replacement.

#### This Moeth

What exactly is a "word processor" and why do you need one? This month's cover story answers that question and gives you an idea what to look for in a good word processor and what's available for the ST.

This issue sees a revival of two columns that deserve reviving "European Report" with Don Maple reporting from West Germany, and

"Getting Started," the column designed especially for the ST novice.

On disk is a special bonus: Antic Software's PHASAR version 3.0. This is perhaps the most popular home-accounting package ever developed for the ST. We think you'll appreciate its power to keep your personal finances organized and on track.

Tom Byron

TOM BYRON START Editor



### **Dialog Box**

#### **Hates Heidi Format**

I do not like your new Idouble-sided] system. I find the instructions to be excessive and hard to follow. The reason you give for not using both sides of a disk in the normal way is not convincing. I hope for your sakes I am of a small minority.

David Brandon Scarborough, Ontario

You are part of a small minority, but one that is very important to us. So, due to the difficulture you and others bave encountered with the Heidi format, we are discontinuing it needs tosse. Since many of our readers enjoy the double-sided date, usive investigating ways to retain 1 is in a different format —STARE Baltor

#### **Graphics** Guides

What books would you suggest on the following subjects: 1) 3D graphics, shading and raytracing; 2) Programming in GFA BASIC 3.07; 3) Atari Mega Internals. David Poole

Modesto, California

1) In START Special Issue Number One Matt Lowless recommends Proordural Elements for Computer Graphics by David F. Rosers: Applied Concepts in Microcomputer Graphics by Bruce A. Artwick- and Geometric Medeling by Michael I Mertennes Abacur Software bublicher a book collect Atopi ST Campbing & Scoood Also call the Association for Computino Machinery's Special Interest Group on Graphics (ACM SIGGRAPH). Fugene Miva heads the San Francisco Ray Area chapter (415) 694-6453. A university math/computer science library is another resource.

2) In the March 1989 usue of START, Contributing Editor David Plotkin recommends Programming with GFA BASIC 3.0 and Concepts in Programming. Both are intermediate level books available from Antic Software, 1–80-234-7001

3) The folks who best know the Mega internals work for Atari. Call Atari Customer Service representative Dan McNiamee at (408) 745-2000 ext 2004 and ask what documentation is available.—START Editor

#### Small TT-ools

When can we expect a full test drive of the TT 030/21 gather most 37 programs will work, but how about accessories? Mail core of the gadgets to Dave Small and let him take it sport and install things and use blowtorches and jackhammers on if the way he does so well. Then let us know how that puppy performs in relation to the S7.

Larry E. Palm San Francisco, California

Good idea We'll do it as soon as possible, which depends spon Atari building and shipping TIs They are supposedly available to developers (like Dave Small), but the last person we talked to has been waiting six weeks for bis machine. —START Editor

#### Ticker Tape Delay

I am writing out of concern for Atari's market stability. Can you peint stock market reports for the month? You could compare Atari shares to those of other leading computer manufacturers so we readers will know what we're up against.

Frankie Seto Caleary, Alberta 

#### Let's Hear It For Imagen

Recently, Lpurchased Ultrasterpt When I received the package I found out (real faut) that there was a bug that prevented the program from loading two benths and tuck to the Desistop. A call to Imagen resulted Desistop. A call to Imagen resulted in the replacement of the dask via Federal Tayrens Next Day Ar at no charge. I even received a call the next day from one of their customer anytotic technicians (are your enading the VicSd3) O makes use that it was working properly and aid; IT had any further questions.

All that I can say is that this is what makes a first-rate company. Let's hear it for Imagen. Mark LaCroix Barre, Massachusetts

We're always happy to recognize an outstanding effort. —START Editor

#### I Want My RGB

I have an Atan 520ST computer that I would like to hook up to an analog Tandy RGB Color Monitor CM-8 Gan it be done, and if so, where can I get the necessary cables and connectors? Bob Kemether Buck, New Jersey

continued on page 13



#### **1st STOP Computer Systems** 7085 CORPORATE WAY & DAYTON OHIO 45459

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#### DIALOG BOX

#### continued from page 11

START Contributing Editor David Plotkin, who has more bardware at home than we have in the office, says at can't be done. The two devices aren't synchronized. You might be better off buying a used Mari monitor—START Editor

#### Viva L'Atari

Several weeks ago 1 jeined the Atan Berobution. This movement was launched by Donald A Thomas, Jr., President of Attiaus Software. The movement's purpose is to make the public more aware and destross of Atan computers: To do this, Mr. Thomas has developed suggested weekly activities to be implemented by Revolutiontries.

I, for one, ann glad somenen has grabbed the bull's borns is on atterpt to make Amene-ans somet that Ame is not past some game machine. Of course, Amri Corp, should have made thist effort. Their competitors (i.e. Apple) spend million making the case for their equipament if the movement is successful, Atam Corp, will pay more then too the net Amenican machine, subdishing more detention to their Amenican machine, and advertising extensively and effectively.

Please throw your support to the Revolution-Robert Hochwalt North Canton, OH

START magazine is very aware of the Revolution and visibes the movement success. Any campaign that works toward a greater exposure of the power and versatility of Atari bardware can do nothing but good.

Anyone who wishes to learn more about the Revolution may write to Artisan Software, P O. Box 3213, Rontana, CA 92334 —START Editor.

#### SUBMISSION INFORMATION

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### News, Notes & Quotes

#### BY STEPHEN MORTIMER, START CONTRIBUTING EDITOR

#### Inside Atari

 There's been yet another change of management at Atari. Mike Morand is no longer President of Atari Com-

puter. David Harris, from the consumer products division, is now in charge of the computer division. Reportedly the change in management



David Harns

was amicable and was the result of personal reasons on the part of Morand.

 The Stacy 2 and Stacy 4 have passed FCC Class A certification. This frees the computer for business/ industrial use, although no actual restrictions on sales are made by the FCC. Both systems come with the respective amount of memory and a 40MB Conner hard disk drive. The

software for screen representations.

Only the fonts from LitraScript will

be used Also, look for a multitasking

TOS According to Leonard Tramiel

multitudene a "formal" extension

This will not be a Postscint interpreter.

Stacy 1, floppydisk version has not yet been approved

 Look for a new version of GDOS in 1990 It will use the UltraScript based fonts and use Imagen's smooth scaling. of the operating system

 Aan field suit against Wintendo and codefendant Popsoc. The suit cites fabe advertising, unfait trade practices and unfair competition. All this comes and the result of ada that Atari claim were deceiving because of references to nonexistent color features on Nintendo's GameHoy. Nintendo is currently under Federal anvestgation for alleged monopolastic competition and unfair trade practices.

 Some new technical specifications for the STE have come to light. The four SNM memory units protrude through the internal sheeking of the STE, allowing for easy upgrades. The 6000 is a square, socketed PLCC chip. This, according to Jim Allen of Fast Technology, will make a

continued on page 18

#### EUROPEAN REPORT

BY DONALD MAPLE, REPORTING FROM WEST GERMANY

The ST market in Europe is caute different from the North American one. Not only is the ST one of the most popular game machines over here but it's also considered to be a perious business computer. While France and the U.K. supply the bulk of games. Germany has produced a plethora of excellent professional software. This monthly report will focus on what's happening in Europe this column as a kind of crystal ball. as to rebut lies aband for the U.S. since most European products have a way of showing up there eventually.



The Cald War revisited: East vs. West, a new spy thriller fram West German game-maker Rainbow Arts.

All Work and No Play?

Rainbow Arts, a German software company, has just announced two new games for the ST. East vs. West is an "agent-simulation" game taking place during the Berlin atrialt in 1948. The game revolves around an A-bomb continued on page 18

16 April 1990

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#### NEWS NOTES & QUOTES

#### continued from page 16

possible Turbo 16c upgrade very easy to install, requiring no soldering. Finally, the GUIE chip has now grown to an 84-pin monstrosity and the MMU and shifter chip have been combined into one large surface mount chip 1m mid December, STEs began trickling into Canada.

· Rainbow TOS 1.4, contrary to reports, is a very solid operating system. Only a few programs, mainly games, are incompatible with this improved OS Stories claiming that it has only compatibility with 60 percent of existing ST software are false. A conservative estimate places it well over 90 percent. Atari has now made available a two-chip set wersion of Rankow TOS (part number CA/600607). If your system originally had two chips, but was upgraded to the sixchip Rainbow TOS, and is having problems, try the two-chip version. There is an overloading problem with the six-chip set in some STs.

 Some final tidbits: STs were featured on the hit TV series 'Growing Paim' and 'Who's the Boss ' Also, the American Stock Exchange is planning to make an Atari stock option available, pending approval from the Securities and Exchange Commission.

#### Xerox Sues Apple

Is Apple getting a dose of its own medicine? Maybe. Xerox is suing Apple Computer for \$150 million, contending that Apple misespresented the originality of the MacIntosh's and Lian's graphicsbased interface. Xerox is seeking \$100 million in royaltoes and \$50 million in damages due to the misrepresentation.

The Xerox Star and Smalltalk were systems designed in the late 1970s that used mice, windows, dialog boxes, menus and icons. Steve Jobs, then at Apple, was shown Smalltalk in 1979 and was very impressed with its user-friendly uterface. Additionally, several employees of Xerox went to work for Apple in the early 1980s, giving Apple access to copyrighted material.

Apple, who is suing Hewlett-Packard and Microsoft for infringement on their graphical-interface copyrights, says the suit is without ment since ideas cannot be protected by copyright. Xerox's suit may be weakened by the fact that they licensed Apple to amplement Smalltalk on Apple hardware. Also, Xerox has waited five years since the Mac's introduction to file the lawsuit

#### Fat Bits

 Creative Microsystems, Inc. (CMI), the accelerator-board manufacturer, has gone out of business.

 Look for Atari to make a big splash in the new, open Eastern Europe, especially East Germany. The U.S. is considering the relaxation of its han on export restrictions on computers to the countries in transition. This might allow the ST to be sold in this huge potential market.

 ISD has shipped DynaCADD 1.7 to dealers. The new version of the popular CAD program retails for \$995 and includes many additional features along with a new 600 page manual.

 Bad news for Arkanoid fans: Taito has ceased development on the ST and a planned refease of Arkanoid II has been postported indefinitely. A c ompany spokespenson cited "smaller than expected sales" for Taito products in the ST market as the major reason for the docision.

If you base a bot Atari news item, let us know at News, Notes & Quotes, START Mazazine, \$44 Second Street, San Francisco, CA 94107.

#### EUROPEAN REPORT

continued from page 16

stolen from an American base in the U.K. Sam Porter is the U.S. secret agent who has the task of preventing the bomb from being passed on to the Soviets.

Conjueror is a tank simulation that boasts 16 different tank types roaming through 30 fractal landscapes. There are three different game types, action, attrikion and strategy. Raibow Arts negotates their U.S. distribution for each game separately so 1 carittell you where to get these games yet.

(On a side note: with the Berlin Wall rapidly acquiring the complexion of Swiss cheese and the Jong overdue] revival of "peace and love," the above Cold-Warmongering games are a bit out of place.)

#### **Bock to BASICs**

One of the more sizeable and interesting abjuents released in West Germany is from a company called Omikron. The nume may not mean much to you, but over here it's identified with ST BASIC. This is primarily due to the fact that, in Europe, Omikron BASIC is shipped as standard with all ST computers. The only exceptions to this are France and the U.K.

Omileron BASIC is a superset of Microsoft MBASIC and as such is 99 percent compatible with it. Among almost 300 commands, which cover all of the standard BASIC keywords, are also various mathematical functions (ARCTAN, SINH, EXP, etc.), system variables (MOUSEX, MOCSEPY etc.), structured programming control commands (REPEAT-UNTIL, WHILE-WEND, PROC etc.) and sequential and random disk file access commands. In addition to interfacing with AES, VDI, GEMDOS, BKOS and XBIOS, Omikron BASIC is also able to do limited multitaskang.

The program operates on two screens a conflorable editor screen with mem bar on top and the finitiar VKT randocumand screens the complex, sold separately for 179 deutsch marks choose Stud-Alone PRG files. These programs are then no cody executable directly from the Deskrop but ran between two and 27 times faster than the interpreted versions Both Ornikron BMSC and the complex rare available in English

Another Omikron program called 2nd\_Word is a word processor with a peculiar difference: in order to run the program, you have to lay your monitor on hs side. The screen them corresponds to the printed page perfectly. This is known as 'postnit in the desktop publishing industry', Unfortunately, the program runs on monochrome monitors only. In Germany the program retails for 59 detatch marks tabout \$23.0. At this time the program is in German only.

Omikron is currently seeking a North American distributor. (Omikron, Erlachstrasse, 157534 Birkenfeld 2, West Germany, (7082) 50048.)

#### Yugaslavian Program Does It All

STeve, which stands for "ST event editor" is an integrated "everything" program. Written by Primoz Jakopan of Yugoslavia, STeve has built a sizeable following as it spreads across the continent. There are now over 1.000 STeve users.

It is difficult to describe STeve because it does so many different things. The reference minual itself is a cloopage intubuke. So here is a iso of some of the features found in version 3.32 is a tables, a clockog publisher, a word processor, an image processor (including scienning), a appreachect — the isi goes on. The program can be herwity custommed by the use of over 30 user modellishe by specimalishes. Bud since everything is quite (clourly list) occ, (Frinton 5 [hothism, Tuoyoka 26(300), (hothism, Yugoslavia, (fu) 26(3-52).

Steve Mortimer is a contributing editor for START and lives in Bingbanton. New York. Donaid Maple is Camadian by origin and presently lives and works in Dusseldorf, West Germany. He words "TT-TOS Secrets" in the February 1990 issue of START.

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VIII

### Own Conclusions

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Script requires 1Mb and a high resolution monitor. Sketch requires a high resolution monitor. For more information, or the same of a dealer near you, call Megamax at (214) 699-7400.

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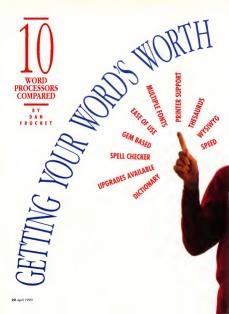
### The Write Choice for Your Left Brain

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bee up to 250 fonts/sizes in a single document. Script quickly handles headers, fooers, and footnotes. Make any text bold, itunderlined, superscript, or subscript. All onscreen while you edit.

And when we say Script is fast, we mean it! Script-outperforms GBOS based word processers hands down. Also, Script prints at the highest possible resolution on 9-pin, 24pin, InkJet, HP and Atari Laser printers.

Sketch



word processor is one of the most basic and worthwhile pieces of software any computer user can own. In fact, your first software purchase will probably be a word processor.

Letters to Aunt Annette, reports for Professor Alderman, manuals for employees, summaries for the boss, newsletters, flyers and brochares all require a word processor And a program

Protext

Tempus II

Word Writer =

Wagalle

**1ST WORD PLUS** 

Microsoft Write

Wordflair'

that manipulates text is necessary for generating the source code that is complied to create any computer program. Word processors can save you time and increase your productivity.

But while the decision to purchase as word processor is every, choosing a program that will next your current and future needs on he extremely difficult. Orivicus facton like proce, system requirements and case of use all affect your final decision But what about the next-orivicus factors used, as forenering, speel checking, fort capabilities and file ponsibility What happens when you nu into a program licitation between as grander available or a technical support staff to decurse your problem?

In this strucke we'll compare and contrast the different types of word processors, examine some of the important aspects you should consider in choosing a word proces soe and then highlight some of the listest programs available. Unfortunately, you word' find a single product that 'doos it all' though some of the products listed here come close.

#### Choices, Choices

Generically, the term word processor refers to any edits text Specifically, it refers to any of three different types of peoperation text editors. text processors and document tracemore Each product has here developed for a select group of users and although many of the programs are design. ed for overlapping markets, you may find yourself needing all three types of software at different times

#### Text Editors

Text etilons are the favoritor of programmers and thuse who need to create short documents on an occusional tabis. These programs consume very like 18AM, and interceptions, casis to learn and, because the program are stapped to their hore essentials, are extremely list. Text editors don't use most of the standard layout options used in word and document processors. You word find pagintion, multiple fort styles, focutoring, spell checking or a thesaurus.

The bisence of these options is deletions: In fact, these who use text editors don't war, then should be used to show downs screen activity and consume RAM that could be used for examines of source code or a shell program. That's not to say that you can taid these and footers to a document or center text, but these must be created minimally and, unders you're a little maschatist, you're better of what acceptoresponses.

All of the essentials, including cut and paste, search and replace, macros and word wrap, are available but there is little provided beyond these basics. Don't look for sophistication in a Text Editor, the key to their appeal a speed and case of use.

#### Text Processors

The term text processor refers to an advanced text layout program. It combines all the features of a text editor with advanced options such as automatic hyphenation, text justification, variable spacing, multiple fonts and styles and much more

You might want to bank of a test processor as an intelligent typewriter, it keeps track of bank operations so you don't have to A test processor controls tabs, sourcing and margins so all pages maintain a uniform appearance. Documents are automatically numbered and titled, footnotes are placed correctly without effort and minor channes can be made without **b** 

#### WP OVERVIEW

retyping an entire page

Text processors keep track of the number of words you have typed, check you're spelling, merge and insert information from mailing lists and effortlessly print multiple copies of a document.

#### **Document Processors**

The latest addition to the wordprocessing market is the document processor. This type of program combines many aspects of desktop publishing, databases and spreudsheets with familiar word-processing options.

The premise behind the document processor is quite sound. Many users have only an occasional need to produce documents that use graphics, mathematical formulas or database information. A document processor lets you combine some or all of these needs without switching programs or employing software that will only be used on an occasional basis.

While this solves a problem it also creates others. With one exception, the current batch of document processors are unable to use spell checkers, they lack a thesaurus and screen redrives are relatively slow.

On the positive side, document processors will merge graphics from many sources, use variable measurements, grids and line spacing, possess multiple fonts, design master pages, create simple databases and perform mathematical computations.

#### Factors To Consider

Before you buy a word processor there are many factors to consider. The following lists some of the less obvious ones that may affect your decision.

#### Fonts

Does the program use GDOS fonts or those built into your printer? Programs that use GDOS fonts for printing rend to take much longer to produce a page. On a doe-matrix printer, the print head must make a double nass. solvoirie document production dramatically. The output from a GDOS program is detaret, nore versatile and casier to read but speed could make a critical difference in program selection. Depending on the printer, some GDOS programs can't print unless you reduce the number of fons available or add more RM.

#### Footnates/Endnotes

A footnote is a comment or reference placed at the end of a page. As endnote is a comment or reference that is explained at the end of a document. The extincts of a footnote or endnotes is indicated by a tetrus, sputiel of number typical as superscript just to the right of the usait references. The same symbol is used again at the sile of the comment. Footnotes and endnotes are inverted automatically into the body text and againsnot is resganised intermitted by socomments will fit in the nonconstrate holes.

A simple claim that there options are included in a program ion't enough. Find out whether the footmeter-tendence can be edited, moved, linked or defined with a segnate font. Mous users don't even need this projen buil'gou require footnones or endnotes make sure of what you are getting. Each software company has a slightly different understanding do.

#### **Memory Requirements**

Most word processor publishers start that early 512k of NAI is required to ran the program — at is a mant basiness move to design programs that will work co all Atari systems. But don't be midde, not every program puckaging, Albough more programs will work with 512k systems, you may not be able to associate some of pacetasing the software. Once the program is loaded, ry noming the spell checker and thesaurus, place all the forta system all aises on the screen at one time and load a large document into memory. Now print a page. Still running? Congratulations, you've got a winner.

#### Portobility

There will never be a piece of hardware or software that will last for all time. Eventually, you'll upgrade to a faster and more flexible system or another word oncessor. If you're moving to enother Ateri computer. such as the 68030-based TT, there's no problem; programs and files are completely compatible if they're written using the Atari standards. If souther speitchung to another more processor, find out if file formats are compatible or if there is a conversion program available. The following chart is provided to belo you make software changes:

Program:	<b>Converts Files From:</b>
1st Word Plus	1st Word, Word Writer (File formots compatible)
Protect	1st Mord
<b>Word Writer</b>	1st Word, 1st Word Plus (File formots compatible)
WordPorfect	ST Writer, 1st Ward, Word Writer
ST Writer Elite	WordParfect, 1st Word, 1st Word Plas, Word Writer

Of counts, any word precessor will import and export ASCII test files. (ASCII stands for American Standari Code for Information Interchange, It is a standard code adopted to inclution the interchange of data among various types of data processing and data commanications software. If you fund this method adoptate the program on interchange files among any of the word processons available

#### Spell Checking

If you create documents that will be read by anyone but close friends and relatives, a spell checker is an essential part of your software collection Minor spelling mistakes become glang errors that reflect

HOW	THEY	STACK	UP		Tak	No. No.					-			A Real Property in the second
Name	Company	System Requirements	RAM Req.	-	Sau and	The words	the state	- Martin	line,		1	Uner GEA	Ulan -	Star Stra
Edit ST	Robust Softwore	Any SI/Mega	512K	к	8			n/a	System	1	Fair	Y	Y	\$59.95
Tempas II	NichTran, Inc.	Any ST/Mega	512K	н	н	н.	8	n/a	System	4	Geed	Y	Y	\$79.95
ST Writer Elite	Atori Corp.	Any ST/Mega	5128	н	s	н	8	n/a	System	1	Feir	Partial	N	Free (FD.)
Protect	MichTran, Inc.	Any SI/Mago	\$12K	8	Ŧ		8	n/o	System	2	Fetr	Mouse Dely	Ÿ	\$199.95
Word Writer	Timeworks, Inc.	Avey ST/Mega	512%*	н	Y	Y	8	8/8	System	4	Good	Y		\$79.95
WordPerfect	WordPerfect Carp	Any SI/Mego	\$12K	y.	¥.	Y.	х.	n/o	System	4	Excellent	Y	Y	\$250
Microsoft Write	Ateri Corp./Weresoft	Any SI/Mego	512K	Y	к		8	n/o	6005 t	4	Feir	Y		Call
1st Word Plus	GST Holdings Ltd.	Any ST/Mega	512K	¥.	Y	н.	¥.	.MG	System	4	Good	Y		\$99.95
Ward Up	Neacapi, inc.	Any ST/Mega	512K	٢	8	8	Y .86	.NED, Deges, .GEM	6005 t	4	Good	Y	Y	\$79.95
WandBair	Blue Chip Infl, Inc.	Any ST/Mega #	1 Nb	н.	к		¥.	JING, SEM	6005 t	1	Excelent	Y	н	\$99.95
	Dictionery nat usable (Typewriter, Swiss, D Nanochrome roanita	unch)	nmended	by m	rela	turer								

upon your abilities. If the first impression you make is based on a document full of maspelled words your chances of being taken seriously are diminished.

Currently, there are six dictionarues switchile for the ST. They way in size from 36,000 to 115,000 words. If you are simply creating personal correspondence, one of the smaller dictionaries in fine. If you are produing professional documents, the smaller dictionaries are severely limited, they slow the correction process and increase the possibility of mastakes.

The most versatele dictionaries check works phoretically, they suggest possible variations on misspelled works, include the plural forms of works along with their various additions in a diversibility of addition of specialized works in userdefined supplemental dictionaries Make size the programs you purchase uses a dictionary designed for your country May common Plauliab words are spelled quite differently in Canada, Great Benam and the Unned States. Is it theque or check? Colour or colo? If a foreign dictionary is used by a child, some of the variations could cause problems.

Of course, you shouldn't disregard a word processor simply because it lacks a spell checker or employs a limited one. You can also purchase a stand-alone spell checker such as Thunderf from Electronic Arts.

#### Thesaurus

Sometimes it's difficultso find words that will let us commonicate effectiveby. We know what we mean to say, but wind up expressing ourselves ambiguously. That insurating feeling of having a word "on the tip of your tongue" is common toall, but very few of us do anything to remedy it.

A thesaurus is a utility that suggests possible synonyms (words with smillar meanings) that can belp you master this shortcoming. It helps to increase your vocabulary and supplies words that can enliven passages of text. Currentlythere are only two programs that provide a thesaumas WordPerfect and Word Writer II your program hacks a thesaurus don't fret, you can also purchase an accessory venision of the Word Writer thesaurus separately in Timewords' software packase Partner ST.

#### User Support/Upgrades

No word processor is ever tody: complete: There is always a hug to: upgrade request or potential problem that needs to be deal with. Do the publishen of year word processor support there produce? Has the company been around while and established a good reputation? Check the READ\_ABL DOC file on the disk, when was the late version released if a company hasn't released any upgrade for serveral years be cautous about purchasing there product, you may wind up as an orgina.

#### WYSIWYG

WYSJWYG (pronounced wizzeewig) is an acronym that stands for "What You See Is What You Get." Most ST

#### WP OVERVIEW

word processors provide an accurate screen representation of what your document will look like. Bold test is actually bold, centered exts is actually centered, pictures and fonts approximate their final appearance on paper. WYSWYG programs save time, paper and avert fustration. For beginners and advanced uners alike, WYSWYG word processors make learning and using a program easier and more enjoyable.

Some ST users, particularly coversits from the IBW workl, are strongely reductant to use WYSIWYG word procession. Take heart refugees from Big Bhae hear are non GEM programs that allow the input of coareal symbolis instead. With these programs you can invoke a preview mode that allows viewing of the document in a pseudo WYSIWYG environment. However, editing cannot be performed in this mode, the document on the be viewed.

#### The Programs

Finally, we arrive at the actual programs. These are not reviews, simply summaries of product capabilities and notes on significant aspects of each product's high points. A chart is also included here to compare the aslient basic features of each product.

Although it is impossible to precisely classify many of the programs, I have attempted to list them according to their approximate categories. Products that are clearly text editors. such as Edit ST, are listed first, followed by programs that combine aspects of a text editor and a text processor such as ST Writer Elite Products that are clearly document processors, such as Wordflair are preceded by programs that combine aspects of text and document processors such as 1st Word Phys These are rough classifications. The divisions do not imply personal product preferences or make a statement as to which products are the best. Every product presented

here meets a niche in the Atari wordprocessing community; it remains to be seen if they will meet the needs for which they were designed.

Some of the programs mentioned here are entirely new or significantly upgraded. Look for complete reviews in upcoming issues.



#### Edit ST (Robust Saftware Inventions)

Fait, enzy to use and self explanatory, Bitt ST is a text collor that is a joy to use. The program requires only 8% of RAM and was clearly developed by a programmer with programmers in mod. The disk includes a calculator accessory and a ASCI/decimal/hexadecimal conversion code accessory. The manual is clearly written and appears to have been designed and published using an AMT converter.



#### Tempus II (MichTron) Tempus II is a slick text editor that provides almost any option a programmer could ever ask for. Includes

a built-in RPN calculator, characterconversion tables, a unique fileselector box with masking template for locating source codes and much more. It uses its own unique Des/top that includes GEM-like icons such as a trash can, dioboard and disk drives.

I can only recommend Tempus II for programmers; it's too specific for hose who only need to offit text on a casual busis. It will take sometime to become acquainted to the many modes available in this text editor, but learning time is much shorter than that required with a text processor.



#### WordPerfect (WordPerfect)

One of the most powerful text processors available on any system has made its way to the Atari market. While it's a lattle option heavy for many home users, it will certainly grow with your needs.

Learning to use the functions completely requires more time than most other products because of the many options available. The program is highly configurable and, once you have defined base page layouts and your own macros, much of the page creation process is automated.

Product support is excellent with regular upgrades and unlimited phone support free knowledgeable representatives. The program runs almost identically to its siblings on other systems. And rowness who have used the program on PCs will have no problem vanning WordPerfect almost immediately. WordPerfect includes a thesaurus and a spell checker with a 115,000word dictionary.

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REATE File	Bes file
DELETE FILM	Dast file
BIT File	Best File
Galant Disk	BEELINE Atarilleitar"
Bests of files	BRANTINH Callers
BRES Filp-Film	(Anti-
SELECT LETTER	

#### ST Writer Elite (Ateri Corp.)

Dr. Brece Noorman brings us the latest update to a classic public-domain favorite. ST Whiter Eline is fast and versatile. It's a full text processor yet it works with the lightning speed of a text editor. For those non-WYSIWYG users mericinear durifer, this program is an excellent option. It is syou switch from a GDH-like environment to a mode that allows keyboard commands alone.

One of the best parts about ST Writer Elite is that it's free! (Editor's Note: This tosue's START disk includes the latest update of ST Writer Elite Obeck the supporting article elsewhere in this issue for more information.)

#### Microsoft Write (Ateri Corp./Microsoft)

Microsoft Write is easy to use and has incredible potential but Atari has field to provide adequate support, upgrades or bug fares. Microsoft has disowned the product for reasons known only to Atari and themselves. Promises of a spell checker and other additions have fuiled to materialize, making Microsoft Write a software parish.

If you require multiple fonts in a variety of sizes, Microsoft Write does an excellent job. Resumes and teports look great and includes a variety of powerful layout options. Microsoft Write will print using GDOS fonts, your printer's internal character set or useful programs such as the imported for use by programs such as Turneworks Publisher and Easy Draw.





#### 1st Word Plus (GST)

The high brother of Jas Word, this document processor is a welcome relief to users who are still using the original program released in the carly days of the ST. All files from the original program are completely compatible but Jas Word Plus adds enough options to make it infinitely more valuable than its predecessor. The program can import pettures and works with the foreis included with your primer.

A powerful mail-merge program and picture convenion utilities are included with in 14 Word Plus along with an intelligent spell checker that uses a 60,000-word dictionary. At this time, 1st Word Plus is the only program that incorporates graphics and still allows access to a seed tecker.



#### When it comes to ST word processors, there's something for everyone.



#### Word Writer (Timeworks)

At the time of this writing, Word Writer is the most popular text processor available for the ST. Small wonden it's well rounded, easy to use and logically organized. The program takes advantage of almost every standard word-processing function the average user requires.

Word Writer includes a document outliner, thesaurus and spell checker with a 90,000 word dictionary. The dictionary is not very intelligent, slowing the correction process, but it is adequate for most uses. The only major addition that can be made to this program is a footpoting function. Timeworks has not released an upgrade in two years but they provide ongoing user support by phone.



#### Protext (MichTron)

Mehrnov's laters addicion to the weak-processor multicline (processor) processor with a command-later increases of a text editor and least processor with a command-later inclusive but at times a little overwhelmang. The number and types of commands that can be inputed are grant but text processing is slow and sometimes an wisward with the format presented. Processing is slow and depo down memsion or windows commands mutt be inreal in summisly or accessed via keyboard macros.

Protext is not for those who are new to computing however, programmers will find the product enjoyable as it fills their needs in several areas. The program meets the claims of the publisher but it lacks the friendliness attributed to most \$T programs. Protect includes a spell checker with a \$6000-word dictionary.



#### Word Up 2.0 (Neocept)

The latest version of Word Up lets you use fonts in sizes from 250 points and it can now import. GEM metafiles. This document processor combines text, graphics and multiple GDOS fonts to produce outstanding.

ROM CHIP AND ALL YOUR FILES SUCCEPTIESS MUL- WILL BE TIME SOLD FILESS MUL- DATE STANDED TRACE CUTTING WITH CORRECT DATE STANDED TRACE CUTTING ULTRA LOW-PRO DIGITAL CORRECT DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT SUCCESSITHIN' DIGITAL CORRECT DIGITAL CORRECT DIGITAL CORRECT DIGITAL CORRECT DIGITAL CORRECT DIGITAL DIGITA	EGA 2 FAM         2MEG 3 24%           MEGA 9/TESI NO         4MEG 5 59%.9           MEGA 9/TESI NO         4MEG 5 59%.9           SG         \$129.96           MFILE SOLDERLESS         6MID 10 72 HC           Codo 2.5 MEG RAM         CALL FOR IN           UNDER ALL RF-         5243B PARA	AND DATA CONNECTIONS MAKE THIS THE MEMORY UPGRADE FOR
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documents The program is logically arranged and uses a wide variety of layout commands that let you adjust almost any page component. Word Up will create endnotes but does not generate footnotes.

An upgrade is currently in the works that will include additional forus, a spell checker, thesaurus and importation and exportation of files in 1st Worlfformat. Shelby Moore, President of Neocept, has attempted to provide a program that equals or exceeds his competition on all levels file and his staff are committed to orgoing support of their products and the ST.



#### Wordfloir (Blue Chip International)

Blue Chip International has finally released Wordflar, a unique document processor that at one time was to be released under the Atari software label. Wordflar combines multiple GDOS fonts, math functions, a graph generator, database and graph-

#### ic importation with text processing The program creates everything internally except image and metafile graphics which must be imported.

Wordflar is a welcome addition to the Ann market nation could bring new popularity to an all-sin one product. Wordflar is great for creating forms and form leners and well lancerase speed and flexibility in basiness settings. With Wordflar you can concentrate on creating a page, not the half a doern additional programs you normally need to create a page that uses all of these page components.

One nice addition is that Wordflair includes a special edition of G-Plus, the lightning fast GDOS replacement from Godehead Software. It speeds up screen activity, redraws and loading. Nice touch Blue Chin!

#### Samething for Everyone

With a list of products like this, there is something for everyone. All i can recommend is this you pick the product that works best for you. Visit your local dealer, try our copies of programs that might do the job and enjoy using your computer by purchasing a word processor tailored to your needs. ■

Dan Fruchey works as a paramedic in Santa Rosa, California and runs a small clip-art business on the side.

#### PRODUCTS MENTIONED

Edit ST \$39.95 Robust Schwase Inventiona, 383 N Wilmot Road, #1088, Tuscon, AZ 85711, 602/ 750.0921

1st Word Plus 599 95 Ist Word Plus, 7 O Box 15008, Parliard Marre 04101, 207/874-0702

Microsoft Write coll for price Alon Corp., 1196 Borregos Avenue, Sunnyrale, CA 94085 408/745 2000 Protext \$199.95, Tempus II \$79.95 Michinon, 376.5 Telegraph, Partice, MI 48053, 313/334-5700

Wordflair, \$99.95 Blue Chip International, Inc., 501 Second Street, Suite 414, So Francisco, CA 94107, 415/ 243.9605

WordPerfect WordPerfect Corp. 288 W Center Street, Oren, UT 84057, 801/ 2274410

#### Weedlie service 2.0

\$79 95 Neccept Inc., 547 Constitution Avenue, Unit A, Consulto, CA 93010, 805/ 482-0313

WordWriter \$79.95 Immercia, 444 Loke Cook Road, Deerfield, II, 60015, 312/948-9200



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Forture: Do Asything Business Computer, Arcade Additation On Dimit CFA Vectore, March Qua St. Screenwriting with WordForder, ST Pracelite, Explored Spreaduleets, Tarorting Matter Korowal, Juggler LJ, Swith/Fack, Ravelver,

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# **ST WRITER ELITE**

The perennial champion of Atari's public-domain word processor presents a farewell offering and claims to retire, but we're not sure we believe bim. ST Writer Elite runs in all three resolutions.

BY BRUCE D. NOONAN, M.D.

A SPECIAL STATES AND A SPECIAL SPE

Updates far all three languages af ST Writerl Files STW-ARC, STW\_SPAN.ARC, STW\_GERM, ARC and STW\_MAN.ARC are an Side 2 of your START Disk.

really didn't want to do it. I fed ST Winke was as good as it could get. Then I received a letter on Clente from Jim Brian of Richland, Wash, askong me to make some changes. This suggestions were good and I soon found my wife giving me those looks that means abse feeling ignored or wards me to change my 2 year old's duper.

I then began to look enticelly at ST Writer and neticed a few annoyances. Since I was on a roll and my wife was already mad at me, I decided to really go for it and fix it up one last time. The result is ST writer Eile vension 3.6.

#### ST Writer Elite Version 3.6: Chonges Since Version 3.0

 There is no longer a separate resource file

 The Global Search and Replace is now roughly 60 times faster.

 The free memory hyte counter can now accommodate values up to 95MB This makes it compatible with the TT, which can handle more than 25MB.

 In non-GEM mode, in many instances the [Enter] key acts the same as the [Return] key.
 Placing the cursor with the mouse now updates the line/column numbers immediately, as on posed to

# **VERSION 3.6**



#### The Final Revision to this Popular Word Processor (Maybe)

updating them on the next key stroke.

 An info status line has been added at the top of the GEM menu screen which keeps track of the name and path of the current file in memory.

 When you save a file under the name of one that exists, you are warned, and the alert box tells you the name of the file that you are attempting to overwrite (nice, in case you click on the wrong file, or type in a name that you didn't know was already a file in the same detectory).

 If you have TOS 1.4 in ROM, fileselector boxes now indicate the operation (e.g., did you select delete, load, save or what?).

 All disk i.o. has been updated and thoroughly debugged.

 [Control]-[A], [Control]-[Z], [Control]-[Right Arrow] and [Control]-[Left Arrow] now work in the command box.

Search/Replace allows a null replacement (bug in versions 3.2 and 3.3).

 AtanWater(tm) files can now be kaded from another folder (bug in 3.4).

 There's now an option to print only odd, or only even pages, which lets you print your document doublesided, like a book, by flipping the sheets.

#### **Using ST Writer Elite**

To use the hetert version of ST Werer Eule, boot that mounts ST KHT dide, the START memu pregram nonautomaticity. At the main screen, click on Peppare Dide, then welter ST Witter EER version 5.4 ° The program will un-ARC directly conto the desimation did sty out specify. Before using this update, next the ASCII file READ\_ME 1: contains bug alerts and a list of changes in version 5.6. To mas TV Wirer, double-click on STWEITER/PRG at the Deakboop. ST WirtPER/PRG in the Deakboop. ST

Laiso updated the Sponish and German Inanguage version. To rout those, elike on Propure Daka at the main screes of the START meros program. Select 'ST Witer Illine. Sponish' for the SPART internal solicit's Wither Illine. German for the German version, Auchde-click on STW\_SPANTROC'ST on an the Sponish version, Auchde-click on STW\_SPANTROC's on a the German version, double-click on STW\_C GIBAUPREC

(Editor's Note: We also republiabed the ST Writer Elite manual on Side 2.1 based to reflect the charges since version 3.0, but we felt twould be useful for those readed to sould be useful for those readters ubo are new kothe ST community and receiving ST Writer Elite for the first time. To surs-ARC the manual, click on Prepare Dubi at the main screen of the STATI memu pregnan Select '37 Writer Babe Mannual: 'the document undi un ARG directly onto the destimation dida you specify. The mannali in file STWAMA ASG, is in ASCII formal 30ca can read it up double-cheining on TPTE/PRG and choosing STWAMA SG, from the file selector tox. TPTE/PRG in a dipbioy program writen the Specific JK, 'Web with ASG approximation of the Specific JK 2009 scane of STATI'

#### The Last Hurroh

I really do not anticipate any more updates to ST Witter. I have my medical practice, my sporting goods company and my own software company, and Twoodd like to think of ST Witter as flushed. Nothing so sever perfect, but Leartikeep boung, the thing to death. So I herefyp resolve not to mess with its anymore Noting. Period. That's my final Nothing. Period. That's my final Nothing. Hereind. That's my final Nothing. Hereind. That's my final Nothing. Hereind. That's my final Notices on the TT middle bits a shallinger. Humman, a wood processor that works in all sits resolutions.

Dr. Bruce D. Noonan's wife bas resumed talking to bim—for now. As always, if you find any bugs, let Dr. Noonan know. He can be reached on CompuServe [72407,504] and Genie [RNoonan].

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## **DESKTOP PUBLISHERS**



ust a few years ago, there was really no such thing as desktop publishing. If you wanted to create a document that consisted of more than typewritten lines of copy, you went through a long, often cosily process. You would write the cony.

draw or obtain the pictures to accompany it and then design a blueprint (a layout sheet) to indicate how the elements should look after they were combined.

To get a finished product, you would take all of your work to a print shop. There the copy could be reproduced in the type size and style you desired, the artwork could be cropped, resized and then reproduced in printable form, and both elements could be lisid our according to your design. Then your document would be printed.

These steps were both costly and time-consuming. And since someone else was doing the work, your control over the finished product and ability to make last-minute changes were limited.

Desktop publishing has changed all that. Fowerful computers such as the ST let anyone single-handeelly produce all sorts of documents such as posters or news/etters in as little as 15 minutes. And unless you want your creation printed on special paper or in great quantilies, you won't even need to vist a print shop.

What you will need is software designed for DTP. As of this writing, there are four such programs for the ST: Calamus Desktop Publishing from ISD Marketing, Desktop Publisher ST from Timeworks, Fleet Street Publisher from Michtron and Pase-Stream from Soft-Logik. (Editor's Note: Actually, there are five DTP programs at this time: Atar's Device II rounds out the group. Though II want's released in time for this overview, it is available now. Watch for a review in a future tissue of START).

In evaluating these programs, I can happily say that each one is capable of producing quality documents on an ST/Megn linked to a good doi-matrix or lasser printer. But the programs vary greatly in terms of operation and features. The purpose of this article is to examine each program individually, describing its functions and capabilities along with some strendths and weaknesses.



whiten, one of the biggest software supporters of the ST, resurrected Fleet Street after the Bettish company that exported the original version withdrew its support. Based on the performance of its version 2.1, MichTron mude a wise move in revivine Fleet Street.

Fleet Street is a very capable performer whose assets include ease of use, good documentation, versatile text-editing functions, a nice collection of clip art and excellent print quality.

But it also lacks some sophusticated features that prevent it from being labeled a state-of-the-art DTP program. It will not support text flow from one page to another, can only import. JMG picture files and ASCII text files (although it can convert

# FOR THE ST A START Overview

other word-processor text files to ASCII and three types of picture files to .IMG format) and it lacks the ability to wrap text around graphics.

By the time you read this, however, MichTron should have released Fleet Street Publisher version 3.0. According to MichTron's director of product support, George Miller, the new version will address those shortcomings and add some powerful new features,

Miller said the major revision will completely support multiple-page documents, feature fully automatic text runaround and disectly import many different types of text and picture files. It will also justify text vertically and offer additional graphus d dawine tools within the rooman.

Meanwhile, Fleet Street Publisher Version 2.1 will handle most basic DTP needs Newcomers to DTP will especially appreciate the instruction munual. Its spinabound, 265 pages are well written, contain plerity of illustrated examples and are organized in a lograch, easy-os-follow fashion.

For the most part, the program is straightforward and easy to learn. I particularly liked the use of selection boxes on the sub-memus By pointing to an arrow and clicking on it with the mouse, you can seroil through and select from the entire range of optorsw withm a sub-memu.

Another Fleet Stevet Phylishier characteristic Tapprecistre is in ability to munipulate text. The program has the capabilities of a perty good word processor, including search-andreplace that no apiel checker?. Biocks of text (as small as one letter and as large as an entire page) can be selected and then modified. You could, for example, have the first letter of a headline appear in a different from and size than the rest of the headline. Fleet Street Publisher will automatically adjust the spacing of the headline for you.

Talso like the idea that Freet Street Publisher comes complete with a library of 150 JuNG jenture files covering a wide range of subjects. This helps compensate for its somewhat limited picture-importing capabilities and makes it easier for novice users to take fill advantage of the power of DTP.

And speaking of power, the most recent version of Fleet Street Publisher available at review time came bundled with and configured to take advantage of a program called UltraScript from Imagen Corporation. UltraScript lets Fleet Street pages be printed in the high-quality PostScript file format.

Although Floet Street Publisher requires 2MB of memory when used with UkraScript, its printouts were superb, even on a rine-pin dotmatrix printer. And don't worty if you don't have that much memory; Fleet Street Publisher will work with as linit as 512K on a color or monochrone system.



Anyone who has used any other Timeworks program on the ST knows that they are characterized by ease of use, flawless operation and enough power to handle most tasks. The Timeworks Desktop Publisher ST fits right into that mold.

Desktop Publisher ST comes with 200 pictures and nine sample publications. You can use the pictures as

#### DESKTOP PUBLISHERS

hey are or modify them for your own documents. And while it's highly unlikely you would ever use the sample publications intact, you can easily modify their text and basis designs to create your own publications.

Time works claims the novice user can be at that stage within 60 minites, thanks to the "Quick-Start Minicannot be manipulated (except with kerning and leading commands).

For all intents and purposes, it's also impossible to use different form styles or sizes within the same word or headline. You also can't use special effects such as text tor graphles rotation, but Desktop Publisher ST does support automatic text runaround and multiple-page documents

## Using Desktop Publisher ST is as easy as it sounds.

Manual\* included in the documentation. That documentation is unquestionably the clearest, easiest to follow and most complete of all the DTP programs mentioned in this article.

As impressive as the Mini-Manual were the clear installation instructions (at the front of the manual, where they belong), the numerous appendixes and an extensive index.

Desktop Publisher ST's command structure is very logical and intuitive. §very operation is performed within one of four modes built around frame, text, paragraph (copy block) and graphics creation and manipulation.

Using Desktop Publisher ST is as gasy as it sounds. Since every element in a page must be contained by a finne, however, it is not quite as flexible as PageStream. This becomes particularly evident in the manipulation of text.

Although line and letter spoing can be adjusted managily or automaticaljy to some extent, it's sometimes diffucult to place a word exactly where you want it. That's because Desktop hobiblers T stee is confined to frames and only the frames can actually be moved. If you creats a frame just for a single word or line, that's no problem. But if you tend to enter words in blocks, as I do, the individual words or lines within the blocks. It can also import many different types of 5T text and graphics files. Simply citck your mouse and the program will automatically import text (minus tabs and double line spacing) in ASCII or one of four popular 5T word processor file formats (including Timeworks' own Word Writer ST) or at in one of five popular formuts.

Simple artwork can actually be created and other artwork edited within Desktop Publisher ST, thanks thanks to a wide range of printer driven included in the program. The files themselves, however, cannot be saved in PostScript format. Print quality on my 9-pin Panasona 1080 was quite good, although some of the GDOS fonts looked a bit jagged in cretina jusc or styles.

The font sizes and styles at your command are limited by your printer type and computer memory. But Desktop Publisher ST will work very well on the most basic 520ST with color or monochrome monitor and single-sided disk drive.

A spokesperson for Timeworks said the company has no plans to offer a new version of Desktop Publisher ST.

here's no question that Calamus is the most powerful of the four DTP programs evaluated for this article. Quite simply, it contains more features and will perform more functions than the others. In fact, it could very well be the most powerful DTP program available for *any* popular computer system, not just the ST.

The questions a would-be buyer needs to ask are "Do I need this

# Calamus is the most powerful DTP program for the ST — or any machine for that matter.

to its graphics tools. You won't confuse this with a drawing program, however. The tools are somewhat limited and edited work cannot be saved as a picture file itself, but only as part of a Desktop Publisher Document or as a document stelf (which limits its usefulness).

The documents created with Desktop Publisher ST can be printed on everything from a 9-pin dot matrix to a PostScript compatible laser printer, much power?" and "Am I willing to invest the time and effort required to take full advantage of it?"

The minimum system requirements for Galamas, which comes on two double-sided disks, are a 10408T and monochrome monitor. The recommended setup is a Mega 4 with hard drive and Atas ISM804 haser printer. I used it with a Mega 2, hard drive and 9-pin doc matrix printer and was completely satisfied with the results

## Just a few years ago, there was really no such thing as DTP.

Printouts were continularly improvive. Calantis uses its own page description language, which can reportedly snew out a laser printed one-osse document in just 30 seconds. Printouts are naturally much slower on a dot-matrix printer, but the quality of the type and line

Circking on some of the icons will reveal even more icons that serve as sub-menus. If you point to an icon, an information field to the right of the menu har will tell you what that icon remercions. But the scope of the whole thing still boggles the mind.

For that mason, Localde's classify



drawings was extraordinary. Calamus the user interface in Calamaa aa is not Postscript compatible and recuires a special hardware interface for Linotropic output

It will take some work, however, to get to the point where you're reads to make printputs. For the power user. Calamus can best be described as introviduting. Linon booting it up. new users will find themselves staring at no less than 35 icons, five menus and five alphanumeric fields

Few of the icons look familiar, so it's not difficult to be overwhelmed

intuitive. Some degree of planning is also required to get the most out of the program since page composition is based on the creation of frames designated to hold specific elements.

Once you become familiar with the program however, it operates with an elegant smoothness. After spending a few hours with Calamus. I because to appendicts the flexibility and total control provided by its command hierarchy.

The program's documentation

makes it more difficult than it should he to learn Calamus. The reference manual begins with a very technical description of pixels and vectors as they relate to the program This could easily scare the succase user away forever. The space would have been better used for a tutorial or index, neither of which were inchuded in the reference manual I monwed ISD claims that both are contained in the latest manual and will be sent free of charge to registered users.

Those users will find plenty of seest features in Calornes Lucas particularly impressed with the extent to which it lets users define their own macro keys for frequent operations, its ability to rotate text and flow it around objects, its total support of multiple-page documents and its ability to import text and nicture files from a wade range of ST program formats. Another tremendown footure is the soulability of multiple clipboards that can be used to perform all sorts of cut-and-paste functions

While Columns is already a very complete program. Potechin says it is only the foundation for an entire DTP system, A font-editing program with 10 new fonts and an outline and drawing package should already be available for use with Calamus. There's even a 300-page book available that offers hints and tips for cettion the most cast of Calamas, And an undated version of Calamas with around 200 new features is promised.

With a \$299.95 list price. Calamus is not incorposive by program standards And it will extract a substantial price in time and effort to master Calarray and be able to take full advantage of its potential. For the ST user interested in serious DTP, the investment will be well worth it.

#### **DESKTOP PUBLISHERS**

t hasn't been that long since Pagestream producer Soft-Logik impressed the ST community with its first DTP program, Publishing Partner, Its cagerly awaited and much-indicipated sequel, PageStream, lives up to its advance billing.

PageStream is characterized by a very flexible and intuitive user interface, great versatility and tremendous power. Unfortunately, the version reviewed (1.3.25) tailso characterized by some bugs and a tendency to bomb for no apparent reason. Editor's Noe: *PageStream* 

# PageStream is less rigid than other DTP programs available for the ST

PageStream also displayed a few bugs that seemed to pop up whether the hilter was on or not. These bugs were mostly related to redraws of the work screen when it contained a document with a great deal of text. Chunks of text would sometimes disappear aider the screen was



version 1.8 is now available. Watch for a review in a future issue of START)

During the many hours I used the program, it bombed perhaps six times. There seemed to be no common denominator to the crashes, although all of them occurred while my Mega 25 biliter chip was activated. Page-Stream never crashed during the few bours I ran it without the biliter.

redrawn to change view size. None of the few other quirks I encountered showed up more than once.

Despite these flaws, I love using PageStream. It is less night than other DTP programs available for the ST in that it doesn't require the user to finst create frames or blocks to hold all of the various elements used in a document. Instead, PageStream automatically frames an element for you after it has been placed on a page

For example, to type something into your document, just select the Text Mode and start typing at the cursor. PageStream will then define its own block around the text, lesting it be moved, copied or rotated and enabling you to change the size, typeface and justification of the text within the block.

This capability gives PageStream more of a "run-and-gun" feel than the other DTP programs. You can kind of wing it while you create your document, designing the page layout a you go along. This makes PageStream by far the casiest program to use for creating documents filled with

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Composer and NOS a sample for new ends fore XOS accounts from incrementation which acquires in additional acquires and the firming products be bringhout on and provide and DTV particip, the firming product of the computation and account product of the same of the computation are and account product accounts (STF 94 STC constitute discount () and schemas manual STF 95 STC structures and accounts of temperature foremation when the STC structures are accounted to protocols and structures are accounted to protocols and account of the STC structures are accounted to protocols and accounted to STC structures are accounted as a structure of the structure of the STC structures are accounted as a structure of the structure of the STC structure of the STC structure of the structure of th

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graphics of various types and sizes.

PageStream can automatically create and size those graphics. It will let you create lines, hoxes, rectangles, circles, ellipses and polygons. In fact, PageStream in many ways resembles a drawing program, albeit one with powerful text manipulation features added.

Many of the drop-down menu items contain sub-menus. One of the best features of PageStream is the way these sub-menus, which look more like diake boxes, offer graphic examples of their effects. For example, one sub-menu features a polygon that changes shape to help you declike how many degrees you want to slant an object.

The ability to slant objects is just one of an impressive array of features offered by PageStream. Other powerful features include automatic word and line spacing and hyphenation, the ability to import a variety of picture types and word processor text files and the ability to automatically flow text around objects.

Page-Steam also offers a wide vanety of print opaons, and thanks to its own page description language — print quality is outstaading. Various partner drivers are included and multiple-page documents are supported. PageStream even lets documents be saved as PostScript-compatible files that can be printed out by high-quality trosestients fairly well in the PageStream instruction manual. The manual contains three excellent tutorials, each one concentrating on different features of the program. If you do choose Page-Stream, be sure to save yoar work often until an updated version is released that eliminates version 1.52's tendency to crash.

Scott Wasser is an editor at a daily newspaper in Wilkes-Barre, Pennsylwania. He wrote extensively for ST-Log magazine. This is bis first article for START.

All of these features are explained

#### **PRODUCTS MENTIONED**

Calamus \$299 95 ISD Masketing, 2651 John Street Unit 3, Maskhon, OT USR 2WS (416) 4791882.

Desktop Publisher ST \$129 95 Teneworks, 444 Loke Cook Rood, Deerfield, IL 60015 Fleet Street Publisher (version 2.0) \$149.95 Michlion, 576 S. Telegroph, Portoc, MI 48053, (313) 334.8729 PageStream \$199.95 Sohlogik, 11131 South Towre Square, Suite F. St. Journ, MO 63123, (314) 894.8608.

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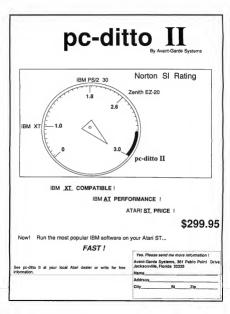
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The first pret: Queck ST III works by replacing parts of GEM and IBIOS with much faster code. Normal test output is up to 15 fanos faster. Screen scroling is up to 80% faster. GEM test, hee, and fill operatores are twice in fast. Programs that does us of 1006 directly (such as games and equations) works therefit from the predi screasors. Data and early operatores are added and and affected Queck ST will oped up to hitter based suiter.

Quick Index is the de facto benchmarking software for the Atal ST. Use it to test software accelerators such as Quick ST II , handware accelerators such as the bilter chip or 16 MHz boards, or the performance of disk formatters, and hard disk drives. Quick View is a very fast text file viewer which quickly displays text files using editor-like scroling, controls. Quick View can also print the files and toggle between a 25 and 50 line display (in monoclarome). Accepts command line parameters Also runs as a desk accessory.

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# Mac and PC On The ST

BY DAVID PLOTKIN, START CONTRIBUTING EDITOR

# More on Apple's HYPERCARD

# MichTron Joins the PC Emulator Ar ena PC SPEED

his month, we'll continue our exploration of Apple's Hypercard. As I mentioned last month, there are several levels of use with Hypercard. Each level gives you more options (and more power) and presents additional menus from which to choose.

#### The Hypercard Levels

The first two levels of Hypercard, Typing and Browsing, aren't very interesting because all you can do is type information into fields that someone else set up.

The thead level of hypercards or called Hauring, local that a hypercard and sets made up of individual cands. The Pairing level has you mody how a card look. Monogh the historic area appears small at the glacoc, can be used several ways. The tools anduke such comes har drawate poceraminals as extraglise, excites, brokes, these pendic (sees and reases points), area fill, appear text, polyappear, and two has a device in solos. As will most Mar, applications, you can car and pairs of hibertural.

The tools themselves can be modified. For example, with the graphic text, you can choose the size, font and may special effects you want. The aithush can be adjusted for density and specid, while a large menu enables you to select from a variety of fill patterns. The weight of a line can be set, as well as the sare and shape of the pant bush.

Continued on page 44

C Speed is a hardware-based PC emulator for the ST that works quite well and advances based of PC emulation considerably. It comes with all you need to get going except MS-DOS, and can be installed by someone orby moderately comfortable with a soldering iron.

#### Installing PC Speed

The PC.Speed package consists of board, two 6/-pin sectors, a disk and a manual. To install, you must open up your ST and remove the metal shield to gain access to the discoord microprocessor. This is not respecially difficult and is explained modernetly well in the manual, but if you're unconfortable: Vander the hood's you should have the poh done by a qualified technicsan or clocker. (Efforts or Note. Presse heating in mind that any modification you make on your ST may be a volation of the comparise's unsertable.

To actually install the board into the ST, you must soldcerone of the 4-pin sockets to the (6800, with each pin being soldcered to a leg of the microprocessor. This is ricky and requires a steady hand and a fine-ipped soldcering itom. You must also be careful not to overheat the 66000, SBL (hough this is complicated, you do nor need to unsolder and remove the 66000 itself, an even tricker task.

Certain Internal modifications (such as the JRI J A.T.O. board) will not permit you to use PC Speed. According to notes posted on GENIE, PC Speed is also incompatible with Jim Allen's Turbo-16 accelerator board

Continued on page 46

#### MAC & PC ON THE ST

#### Continued from page 43

As mentioned earlier, each tool is available in several different varieties. For example, the line tool is used "is is" to draw lines in black. Hold down the Option ((Alemate) on the ST) key to draw the line in the selected fill pattern. The brush can be used as a paint brush or an eraser-brush. Another good example is the Recand not or any other card in the stack. Or, you can select the background, in which case any modifications you make will affect every card in the sack. The 'card' position will take precedence over the background if the two overlap. Thus, you would want to set up the background graphics which are the same for all cards on the background, then

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tangle tool. It draws excitngles (surprise') with a back bonder. If you select "Draw Filled" from the menu, it will be filled with the selected pattern, and holding down the (Alternate) while dragging draws the border of the rectangle in the selected fill pattern. Thus, to draw an illud rectangle with no border, select "Draw filled" and hold down (Alternate) while drawing.

The Fill tool is quite versatile as well. Not only can it fill shapes, but graphs text as well. Most of the tools have a Toraw Multiple<sup>2</sup> option so that multiple copies of the shape are created as you drag. The separation of these copies can be set and graphics can be shaped or attecthed. As you can see, there is a lot of power for customizing your cands in the rather inoncuous looking Paint memo.

It is important to realize is that each card has a background (which is the same for the whole stack) and a "card," or foreground, which is unique to that card. You can paint just the card, in which case your artwock will appear on that card Hypercord features a searchable Help facility that autilines all its functions. This functions. This functions. This functions. The search discrity is itself a Hypercard stack. From the "harme card" shawn here, you can go directly to any stack by simply clicking an the appropriate ican.

switch to the individual card to make changes that affect just that card. This dichotomy between card and background holds for buttons and fields (see below). entirely new "look" for your button from a stack called "button lideas" included with Hypercard. You can set many attributes of the button from a dalog box. You can change its name, decide whether to olisplay the name and set its properties (transpirent, opaque, shadowed, rectanguiar, check box, etc.). At any time you can modify a button, move it to another location or delste it entirely.

Buttonse must be linked to something to be useful. They can be linked to another stack, a card within a stack to ris a Hyperalk script. A good example of a buston finked to a stack is when you create a new stack To access the stack, create i button and place i in the Home stack, then link it to your new stack. Whenever you click on the button in the Home stack, it will open your new stack.

Linking a button to another card is useful to pull up additional information. Hypercard includes an example of a rolodex. The first card shows a series of lettered tabs (i.e., A, B, etc.). Click on one of these tabs to jump to

# The real power of Hypercard comes out in the Authoring level.

#### The Authoring Level

Although you can certainly make your cards look pretry using the Paint tools, the real power of Hypercraid shows up when you engage the Authoning level. Here, you can place new fields and buttons on the card, and link those buttons to other cards or stacks.

As mentioned last issue, buttons are your way to retneve other information. Clicking on the button tool in the menu gives you a default rectangular button called "New button." You can then resize it or select an the cards that contain information for people whose last names begins with those letters. To ensure that you will always get the first card for that letter, each letter of this supposedly single database is actually a different stud. The baston is linked to that stude. (rather than a specific card within the stack lo what it always jumps to the first cards in the stude, when you select the botton. In fact, the first card with the lettered tabh) is in a stack all by itself.

Linking a button to a Hypertalk script lets you build considerable power into a Hypercard application. Hypertalk is a complete programming language. Thus, many things can happen when you click on a button linked to a script. Whole games have been written within the framework of Hypercard by using Hypertalk.

#### Hypercard Fields

The has providen of the Authoring lower are Fields. Fields are just what they sound likes, fields are just what they sound likes, fields for entering information, Creating a new field appears. You can resize it or move it or extravious anithates. Among these are the size and food of anylines with show which for the size the size of the size and food of anyther are the size and food of anyther any strength of the size of the size the size with show which for the size in the field to be transparent, opague, shadowed, etc.

You can even set a field to be a scrollarg field—you can keep typing auformation into the field and it will scroll as you continue to type. A standar scroll bar appears to the right of the field, and you can access texa anywhere in the field by disking/dragging on the scroll bars. Fields are minit word processors and feature word wrap and basic-oft features finally, facilitation and the topword of the application.

#### Hypercard is Fun

As you can see, there is considerable power in Hypertalle even without programming, and its easy to see how people can be sucked into playing with it for hours at a time. It's been a long while since I've found anything that's as much fun to play with as Hypercard — and that includes games.

David Plotkin is a a contributing editor for START. He lives in Walnut Creek, California.

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#### MAC & PC ON THE ST

#### Continued from page 43

Once each pin of the socket is soldered in place, the PCSpeed motherboard just plugs into the socket. Then you "button up" your ST and you're ready to go.

#### **Running PC Speed**

To run PC Speed, all yeau needto do is double-click on the program PC\_SPEED\_NGO. At the prompt, insert a disk with MS-DOS (unless you have insulted an autoboot from hard drive) and you'll scoon be looking at the Asy prompt. MS-DOS is not supplied with PC Speed, and a full package of the 53 version (the most recent before the ill-conceived version 4 40° costs about 370.

Also included on the disk is a program you can place in your AUTOEXEC.BAT file that will install a

## The only emulator that works to my satisfaction is PC Speed.

rough around the edges, including untranslated phrases (from the German) and absolutely no documentation on what some of the choices mean

For the floppy drive, you can set Floppy Ato be either your intermal or external drive. Of counte, some machines don't have an intermal drive, in which case you'll just have to try the two choices and figure out which drive is which — there's no information provided about what occurs in this case. Since I do have an intermal drive, I want't able to see



PC Second is Mictoon's debut into the woodd of annulators.

mouse driver for your ST mouse. Unfortunately, this driver only works with graphics programs and is not compatible with the text modes of many programs. However, you can purchase and install a real PC serial mouse which will work with proarms that supports such devices.

PC Speed also comes with a program for configuring the product. This program lets you modify the keyboard, floppy-/hard-drive configuration, screen and colors. The configuration program is a little the software that 5.25-inch drives normally come with to achieve this effect.

Hard drives can be set up as None, Yes or HD-BOOT. If you select 'Yes', your hard drive will be available in the PC environment. Interestingly, no hard-drive driver is provided with PC Speed uses your own hard-drive driver, which should work better.

If you select HD-BOOT, PC Speed will attempt to load MS-DOS from the hard drive. For this to work, you must reformat the partition you want to use to load MS-DOS as a system disk under DOS. The manual leads you through the process for this Be warned that doing this will erase anything on that partition. (The manual does root wan you of this!)

The configuration for the screen let you set up what video carl you wan PC Speed to emulais. The default is GGA, which is as good choice because most programs run under GGA. Other becloses include Hercules, a higher resolution that allows unnochrome graphics: Hypert Here, an enhanced Hercules mode that is not supported by much software and two I don't recognize Oliverti and Grafickand.

PC Speed also lets you set the fonts used one of three ways (both, Light or Dark, Again, the lack of documentation makes this feature less useful Configuration for colors lets you choose from the following modes: 40-character with four colors, Graphic or SM-124

Note that you can set a mode that your monitor can't support that is, you can select a mode that shows color even if you're using a monochrome monitor. In Graphic and 40character modes, you can display all 16 colors that CGA is capable of . In 80-character mode, you can only display four colors, so you must assign the 16 colors of CGA to the four colors on the FT. Bet each color by using the left and right arrows to select R. G or B, then using the up and down arrows to yary the amount of that color you want. Again, this is not documented in the manual There is also a bug that prevents you from viewing the amount of green or blue that you've selected because

can be set up as None, 3.5 or 5.25. Again, if's not clear whether the selection for 5.25 will set the step rate down to what those types of drives can handle, or whether you'll

this worked.

Floorer B

another character on the screen obliterates the number.

#### How It Works

The proof of the padding, of coarse, is how well PCSpeed works as a PC emulator and I am happy to report that it works quite well. It an every PC program I theid, with one exception. While mine is not an exhaustwelist, It hodes well Because it includes such tens of PC compatibility as Lotus 1-2-3 and Mercol's Flight Simulator It also ran the Notton SI program, returning a respectible value of 4, or

# The manual does not warn you that formatting the hard drive will erase the information thereon.

four times as fast as a standard IBM XT: Compare this to the advertised value of 3 for preditto II which is not available as of this writing (early December 1989). The high SI rating is possible because PC Speed uses a NGC V-30 that runs at 8 MP/z.

PC Speed does not support a math coprocessor at this time, giving the edge in that department to Supercharger, but it does work well with a hard drive — something I can't say for Supercharger.

The program that would not run on PC Speed is Prodigy, the driver software for the new Prodigy bulletin board service from IBM and Sears. (Prodigy also doesn't work under peditto.)

#### And then There's the Manual

The manual for PC Speed consists of 13 pages including the title page and two entire pages of license and disclaimers. Beyond that, there are the instructions for installation and some information on customizing the program - setting up the hard drive and an 80-track floppy. The language is stilled and some of the manual is confusingly written. Further, the instructions for setting up the 80track floory, while they will work. allow access to only one floory (for a better search see my "Mac and PC or the ST" column in the August 1989 issue of START) The manual does not warn you that formatting the hard drive will erase the information thereon warning you instead to "Pay Attention doing any format operations, especially on hard disks?!?

The photographs duit proport to show the internalist of the michane for installation are photocopied and therefore worthless. Further, here is no information on using the configuration program and what the different options mean. You can eventually figure cost most of it, but I was never clear on what is some of the options dui. Micharon minutals have unfortunately threaded to be extremely poor and for 4400 the user of serves better than this indecause internet.

#### Summary

At the current time, the only hardware PC emulator that works to my satisfaction is Micharons & PC Speed. It's fast, a svalible now. It's more expensive than the projected price of other emualators, but unli they become available in bug-free incurrations, PC Speed is to endy game in town. The incomplete munual notwithstunding, this emulator works and works well.

David Plotkin is a contributing editor for START and writes our "Mac and PC on the ST" column on a regular basis.

#### PRODUCTS MENTIONED

PC Speed \$399.95 MithTion, 576 S Telegropi Pontoc, Michigar 48053, (313) 334.5700



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An essay describing the virtues of computer-based bome accounting software.

> you structure your budget and monitor your spending. You manage your money, instead of your money managing you.

A sophisticated home-accounting program tracks your cash flow, graphing income vs. expenses. It gives you instant access to yournet worth, which is useful when applying for a lean and lets you analyze loans 'tou can compare saving plans in a smille fishion. When tax'time rolls around you have eventhian you need collected in one

everything you need collected in one place. I used to spend several days doing my taxes by hand, now I whip out both Federal and State returns in about an hour's time!

After a while you'll notice that at every moment you have a solid feel for the state of your finances. You now control an important part of your life. Keep the shoebox if you want, but fill it with footwear. Zom Marks' PHASAR is a friendly, GEM-based bome and small-business accounting system that will make your financial life easier, It is also one of the most popular money management programs ever developed for the ST and START is pleased to present it on this month's disk. PHASAR runs on any ST/Mega color or monocbrome system.

# PHA\$AR

Keep tobs on your budget with the files

he following documenfiers was condensed from the original PHASAI version 3.0 merual and in in-depth tour of PHASAI is many capabilities, read 'Be a Power PHASAR User' clearly net of PhaSAF is more pHASAR User' clearly net in this issue. And if you can, you should acquie the complete manual.

#### **Getting Storted**

To run PTMAM, host this month's START oils, the START memu program muss automatically. At the main screen, click on Prepare, them select "HAMAI version 30." The program will un-ARC directly earls the destimtion disk you specify. To access the PTMAM AK dualities, resum to the START memu program and click on "PTM-SAR Datalities." The files will un-ARC durectly onto the destimation disk you specify. Jee sure that the following dualities are in the same folder.

PHASAR NAN	PH4SAR.OCC
PHASAR REG	PHASAR1.HUP
PHASA82.HLP	PHASAK3.HLP
PHASAR4.HUP	PHASARS HLP
PHASAR6.HUP	PHASAK7.HLP

# V. 3.0

# The Professional Home Accounting System and Register

#### PROGRAM BY TOM MARKS ARTICLE BY STEPHEN G. ROQUEMORE

#### PHASAR ARC ond PH\_DATA ARC on Side 1 of your START disk.

With so many files, PHASAR obviouly takes up a lot of space, so you may have to separate the files onto different disks (unless, of course, you configure your system, make sure othat PHASAR PRG. PHASAR.CFG and PHASAR BYG. PHASAR.CFG and PHASAR Will run on 512K, but a 1MB system is recommended.

#### Accounting for Your Accounts

Write down all of the income categories and all the expense categories you'll need. Then write down all of the accounts you'll need. Make one for each checkins account. swings account and my other type of account that can necesive or alibance money. He stare you have the last confirmed bulance for each of these fearss Segurite them into "assest" and "liabilities." Chases are these accounts that are of value, flat your house, ear, boat, checking and avriggi accounts, each bulat, account anympa recounts, each bulat, and anyments, like a nongange, credit cards, etc.) Names for each entry mush to 10 character on cleas.

#### Some General Info

HMAAR contains all the conline help you'll need to get you through any rough spots. Along the top of the main screen, you'll see a standard GEM menu har. Under any of the menu heading, click on HEPL (perssing IPI) also calls up the help menu).

Press [Esc] or [F10] to exit from whatever you're doing in PHASAR, but not from the program. [Return] or the left mouse button will do the same in most cases.

Before you ran PHASAB, make sure that the current time and date are correctly set, via the Control Panel or whatever means you normally use. PHASAR uses this to determine the date of your transactions for a session and if it int correct, then neither will your register file be be

#### PHASAR V. 3.0

correct. PHA\$AR provides an option in the File menu to set the date, but this is only for convenience in entering transactions later than the current date.

When you return to the main menu, always save the register file. Also, you can undelete a transaction by placing the cursor on the line where the transaction was displayed and pressing linserd. This must be done heyfore exiting the function.

#### Setting Up PHASAR

Run PHASAR; it may present a dialog hox asking where the PHASAR.REG file is: If so, type in the correct location, including the drive ID and the folder name if necessary.

At the main menu, select Set User Preferences under Setup. Here you enter the choices you want PHASAR to use whenever you run it.

You'll then be asked to decide if you want PHA\$AR to force a unique catagory name when emering transactions. Tevenomend you solely specific about the account or category name you enter and reduces errors. Select 10% entoremain Occasions. Select 10% for Antomatic Theref the correct drive and path names for each of the file locations. Select Putter for Pine Destination. Select Putter prive Data is consistent with your neutor.

You may select Caston Printer which lets you specify six lems regarding your printer, according to the type you selected. For now, just select Dot Matrix or Dasy-Wheel. Now press IEscl and and click on Yes to save the values. Click on No when asked to test the printer.

You now have a PHA\$AR.CFG file, which PHA\$AR will use every time you run the program. You may change any of the values at any time.

Now select Create New Register Pile under Stelacy of the PHASAR REG Bile that came with the program 'This Bie contars the tutonial data, and you may want to use it later on.) You'll be asked whether you want a Calendar Year or Fiscal Year for the "ite. If you choose Fiscal Year, the 'year' is the calendar year in which the fiscal year ends.

Next, select Set Up Accounts under Setup. It is here that you'll builarces you planned out carlier. Fink, self PHASA how many accounts you want to allow for if you have mapped out, say 20, then allow for 30. You can always change than number latter. This is a pupiles to momen and expense categories. As you center awart scalances for plantite to enter the balances of an



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bility accounts as negative numbers.

Enter all the asset accounts; your checking and savings accounts should probably be finst in the list. Then leave a few blank entries before entering all of the liability accounts. This makes the info more readable on screen reports. For each account, enter the date of the last confirmed blance.

When you've finished all the above, press [Esc] to return to the Main Menu. Press [Control]-[S] to save the register file.

Now return to the Setup Menu and select Set Up Incomes to enter your income categories. Your first entries should be your job(s), then any other sources of income you may have. At the end of the list, enter any income source that is non-taxable.

When you're finished, save the register file as you did for accounts, then alext 5et Up Rapemes in hie Setup menu. Proceed as you did for incomes. Group related expenses categories together, e.g., paycheck deduction categories for each job, basic household expenses, etc. This makes your screen reports easier to read. Note: once you have entered a transaction for an account or category you carrupt-change its name.

Now return to the Main Menu and save the register file as before. Press [Control]-[A] to diselay your account structure: study it carefully for any mistalion or changes you mont to make and jot them down. Follow the promots. When you're finished, oress Controll (C) to display your expense and income structure: you'll want to one the "actual" on just once [Return] at the prompt; do the same as you did for accounts, iotting down any changes you wish to make. Follow the promots. When you return to the Main Menu select whichever Setursub-menu you wish to make your changes in

(To change the order of entries, place the cursor on the number of the item you wish to be first then type 1 and press (litetum]. The item will now be first on the list. You may rearrange the list any way yoo. like using this method, if you wanthe cursor on 27 and type 26 and press [litetum]. If you wish to change names and/or bulances, just place the cursor on the field and enter the new name or hulance and press [Return].

You have now initialized the basic information PHA\$AR needs to properly process your transactions.

#### Sove Your Work!

Whenever yess end a PHASAR session, cost the program and copy the PHASAR.OCC and PHASAR.NAM files to your buckup diak. Also, of course, copy the PHASAR.CFG file if you changed any preferences and the PHASAR.REG file if you centered any transactions of dd anything that affects your account/category structure.

#### THE MAIN MENU

#### Desk

Lefs you access whatever desk accessories you've installed; also provides PHASAR copyright information. A word of warning: PHASAR does not work properly with Multi-Desk from Codehead Software — it locks up the program.

#### File

Help Click here for special online help for the File menu only.

Change System Date Lets you change the date of your transactions. Particularly useful if you enter a large amount of transactions with dates earlier than today's date. Isn't necessary if you have a clock card.

Save Register File: Saves work file to specified destination disk. Keyboard equivalent is [Control]+[S, Periodically save the register file so that a random power glitch or computer error doesn't destroy your data. >

# GET YOUR PHAŞAR 3.0 MANUAL

Because PHASAR is packed with so many powerful features, to really get the most out of the program (particularity the tax module) you should have this manual. The PHASAR documentation gives you over 125 pages of vell organized and clearly written instructions, inclusing a fail lindex, a step by step tutorial and a quick start euside.

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#### PHASAR V. 3.0

Validate Register File: Reads all transactions an affe and relavilla the current balances of all accounts and categories from that data. Also, reserves the account status according to whethen or on 2 has been reconsided. Waning-Validate Register File is very important but datageroaut Do not use it unless you have a current backup of your egister file: Choose that option only if a mayor computer or power eights has transford your balances.

Quit: Click here to return to the ST Desktop. Keyboard equivalent is (Control]-{O}.

#### Transactions

Help. Click here for special online help for the Transactions menu only.

Enter New Transactions: Select this option to display a list of your accounts and their current balances, in the top half; and a header line that describes each section of a transacPHASAR lets you arganize your assets and liabilities by setting them up into Income and Expense categorins.

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tion and a prompt for which account to use on the the bottom half. The keyboard equivalent is [Control]-[E].

After the first transaction, PHASAB will use the account you select as the default. Select the account and press (Return). The account name now appears above the column labeled Account.

The Date field defaults to current date. Press [Return] to accept the default or type the date you wish.

Fractal

Magic

You can spell out the month and day, or use the MM/DD/YY or DD/ MM/YY formats, depending on your specification in User Preferences. This entry is now displayed under the header line for date. If you make a mistake, press Trabl at the appropmare field.

In the Payee field, type in the recipient of the payment; if you type in the name or number of a PHA\$AR account, the program thinks you want

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a transfer from this account to the one numed in the payee field. This is OK if you're making a payment to a liabitry account, otherwise, if it's for an expense account, make sure the spelling is different enough that PIASAR won't thank it's a transfer.

The next field is either the expense category or the income category, depending on whether you're depositing or paying out finals. Press (Controll-HL oge tail is die choices, then enter the name or number of the category. If the category diesen't exits, PHAAR will aak you fyou wart to create in now. If you, you'll taken to the stop secon and allowed to define the category. Then you will be returned to complete your transaction entry.

If you're transferring between accounts, this field is supplied by PHASAR. On transfers, when you finish entering the fields, the transaction is displayed in the fist above as a "XFER out"; then, PHASAR displays an automatically-generated "XFER in" transaction for the receiving account, with the cursor placed in its comment field. Press [Return] to complete the transfer.

The next field is ChkNum. Enter the actual check mumber of type a blink, or type a zero (0) if you wart. PHASAR to quit supplying numbers for this account. select the zero option if the account is a credit card or savings account which doesn't require check numbers. Now enter the actual amount.

The last field is called Comment. Here you may enter any text you like or nothing at all. Press [Return]. This field can be printed on checks if you desire.

The PHASAR cash account is shown at the bottom of the account list in the top half of the screen. It also gives you two expense categories for cash. Press [Control]-IL1 to call up a list of expense categories. The only one shown will be Cubi. . This is a special kind of expense category, think of itas *total cash*. The one that isn't shown here, think of as *net* cash. Total cash is what you started out with, net cash is what's left after all your recorded transactions from the cash account.

To issue a check that covers more then one expense extreme or to make a deposit that covers more than one income category, type "multi" or "split" at the expense or income promot. Continue entering the transaction normally. Enter the correct full amount and any comment you wish. When you press [Return]. PHASAR generates a second transaction line for you with the cursor positioned in the expense (or income) field. Enter each category and its partial amount. Do this until each required expense (or income) category required has been entered.





#### PHASAR V. 3.0

cally highlighted. Make your choice, the first page, Papersens, is disripayed, if you have more than 30 expense categories, the rost will be on subsequent recreation. Follow the subsequent recreation, Follow the prompts for the next screen. When your finished with expenses, the hicrosen categories are displayed. At the bottom, an er-cabellow catchaltion is shown for the period shown. Follow the prompts to return to the Main Meru. The keyboard equivalent for the option 10 controll-GL.

Print Account Summary: Lets you print out data from the View Account Summary option.

Print Category Summary: Prints the same data from the View Category Summary option. Note that it always prints all 12 months' worth of data, regardless of the current month.

Sort/Unsort Categories Sort the categories for display or printing in PHASAR lets you assess your loans by analyzing the specific terms of each debt.

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one of three ways. Ascending by Name, Ascending by Amount or Desconfing by Amount. Select whichever you desire, then select the type of data and the month or total. After the sort is completed, when you select View Category Summary, the data will be displayed, sorted as you nequested. Select Orignal Orders to return the categories to their original order. Words Statement for your financial structure. It provides up to 60 lines of a suet information and up to 60 lines of itability information, plus a final line showing the current Net Worth. When you select this option you are presented with a box letting you choose to Edit Assets, Edit Labilities, View Statement, Pitol Statement, Clear Statement or Edit. Edit returns you to the Main Menu.

Net Worth: Sets up a tailored Net





#### Analysis

Help Click here for special online help for the Analysis option only.

View/Edit Budget, Keyhord equivalent is Correl[33] sets up budgets for any or all of your categones. You're presented with a line asking which category you want. Then a screen is presented to let you enter budget anneaus by month or for all months: follow the prongets. When finalecd, press/Edic Jor esturn to the "which category' prompt, If you select nothing here, the line is a automatical jff field with the meast category name. Press [Biel to return to the Main Memo

Plot Trend vs. Budget: Displays graphs of your category data. Keybourd equivalent is [Control][P]. You're asked which category to plot; enter the appropriate name. Here, the List command also offens several 'composite' categones from which to choose, which allows comparative graphs to be drawn. If you want to print the graph, press [Control]-MJ, Follow the prompts to see a table of data displayed or press [Esc] to return to the "which category" prompt. Another [Esc] will return you to the Main Menu.

Lean Analysis and Savings Analyiss work much the same way. They ler you define up to eight leans or savings accounts to analyze the different sets of terms. Lean Analysis is also useful at tax time to estimate the total learness paid on a lean. When you select Loan Analysis, you are presented with a screen allowing room for four columns of loan data; press ISHII-Down-Arrowlkey to scredit to the next page of four leans.

Enter the account name ( not an account you have defined to PHA\$AR; it's just a name for this column of chai), the origination date, original principal, number of payments, her interest mat, number of payments pery var and the termination date for which your warst the form calculate. PIMASAR will then calculate and display the amount of the required payment, number of payments made, total of payments, studi of meters paid, the mitterest paid the your and the balance of the Joan as of the date you entered. Notes you must enter a name or PIMASAR word display the calculation results.

Savings Analysis works the same way except that you give the amount of payments you plan to make instead of the number of payments.

#### Setup

Help-Click here for special online help for the Setup menu only.

Set User Preferences ([Control]-[Ul), Setup Accounts, Setup Expenses, •

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#### PHASAR V. 3.0

Each time P143AR positions the cursor on the amount field, it displays a default amount which is the total amount minus the sum of the partials entered so far. When you neach the last partial entry, the amount shown should be the correct partial amount for the last entry you wish to make. These partial entries do not affect your account balance and are automatically confirmed, so they never above up when reconciling accounts.

Use Standard Transactions Lets you to call up one of various itenasctions you've set up. R presents the list which you them modify and/or delete the entries you wish to change, supply correct amounts if different than the supplied value, specify correct check numbers. When you've made all the appropriate changes, press [Eq.4]. Also of chances as them presented. Accept the default to record them on disk Edit Standard Transactions: Lets you set up up to 17 groups of up to 20 transactions which can be called up by the Use Standard Transaction function. A great time-saver if you have a fair amount of repetitive transactions you enter regularly.

View/Edit Transactions Let you dipply a list of transactions based on specified selection criteria. The keyboard equivalent list (Scornell/VIA, A screen is displayed for you to enter your criteria's specify Alto ra list of one or more accounts, by manne or number. Then specify alto the same for income and experses categories, you Then specify alto the payses bring to same for, followed by the same and end dates to the challen and end end dates to include an the search. Thraily, specify whether or not to pint the results.

Confirm With Statement: Choose this option to periodically reconcile

all of your accounts. First, enter the name or number of the account to reconcile. The beginning balance is supplied by PHA\$AR from the last confirmed balance. You then supply the ending date and balance from your bank statement (or use whatever date is appropriate for the other accounts), you can usually accept the PHA\$AR-sapplied default for Confirmation string. Now, strike one key PHA\$AR displays messages to inform you of the search: then a screen of unconfirmed transactions is displayed. More the current to the Confirm column and press [Return] for each transaction that appears on your statement. If one doesn't apnear, use the down-arrow key to space over it. If there is more than one near inters [Shift]/Down-Arrow] to scroll to the next page and continue confirming transactions. When a message is displayed that the balances match, neess [Esc] and

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follow the prompts

If you run out of transactions and the balances are incorrect, you are given ixis choices to remedy the situation. Re-examine Transactions, Enter-Missing Transactions, Change Ending Balance, Accept Statement Balance, Sort Transactions or Revert To Original State Select the appropriate option

If you select Revert To Original State, there are several consequences. First, PHASAR will unconfirm all transactions you just confirmed; all other edits you performed will be left balance and date will be reinstated. Newly entered transactions will be left insize that unconfirmed, finally, all transactions you marked for deletion will be deleted.

BUACAR's Tax

#### Reports

Help Click here for special online help for the Reports menu only. View Accountsummary Diploys a screen fisting each account, it lost confirmed balance and data, last unconfirmed balance and data and how many debit and credit transactions and their totals are in the File for the account. They represent the current unconfirmed Tanaccions for their account. If there are more than 20, the rest are displayed when you stifted are rule to go to the next screen. At the end, the total number of uncomfirmed Takances is shown. The knobrand equivalence is (accountAla).

View Category Summary Produces a two-screen display of your expense and income category data. You're presented with a host that less you choose Actual, Joudge or Difference. Select one with the mouse or cursor key; you're then presented with a host letting you choose which month or a composite total-to-dut display for current month will be automati-



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	the Atari ST, Commodore

Arriga, and the IBM PC. The retail price is \$699.95 CMichTron 2

#### PHASAR V. 3.0

Setup Incomes. See page 52 under 'Setting Up PHA\$AR."

Set Up Check Printing: Lets you configure PHA5AR to print your checks instead of you writing them manually. I recommend you ignore this option unless you use preprinted check forms; for a normal household, it just ion? worth it.

New Yara Carry Over Re-initialize your register file and places any uncleased transactions in month "zero't omake your next reconcilation easy. You will be asked If you with to carry over any Standard Choose whichevery on with. If you carry them over, you work have to redo them. If you out, you will have to redo all of them; if you plan on a mayor restructuring of your accounts and/or entegories, this is the way to go.

## PHA\$AR allows for up to 500 transactions per month

Create New Register File: Use this option to start a new file from scratch for the next year (covered above under 'Setting Up PHASAR'). Be sure you have a separate backup of the files for the year last ending

Tax Advantage Codes Choose this only if you use the Tax Advantage program to do your taxes. The Tax Advantage manual contains the codes you need to enter-here. If you use it, PMASAR displays a screen with your income and expense categories lated, just enter the correct code for each category you want to track for tax processing. Any exterpt you do not wish to track. leave blank. Just move the cursor past it if you enter anything but the correct three-dign code, even backspacing will cause The Tax Advantage to flag that category as invalid and you'll have to re-meter the total to The Tax Advantage manually This is also true if you enter an incorrect number.

#### Lists

Help: Click here for special online help for the Lists menu only.

View/Edit Names & Addresses. Lets you view or edit any names, addresses and telephone numbers that you've entered under View/Edit



Numes & Addresses. You are asked which nume to search fore enter at least two characters of the name. The program them displays the entry in a template If there is no mutch, it will display up to three near choices. You may then use ISMH [10]-p. Arrow Jo Bhild/Down-Arrow Jo so rould through the list. If you while to enter a new name, press IlaserII at the search-for prompt and the term list (aromotifyha) chybrader capacitor the (data. The keybroard capacitore the (data. The

Now the template for the remaining data is dipplayed. Brate relephone numbers on the first line. Enter up to three phone numbers on this line. The remaining flow lines are for address information and any other data you wish to add. Edit existing entros the same way, type over the data and press Betrand. As you enter each line, press Betrand. As you enter the next line. If you wish to delete a line, data the cursor on the desired line and press [Delete]. You can move the cursor by using the arrow keys. When you are finished entering or editing data, press [Esc] to return to the main menu

Print Names & Addresses

PHA5AR prints all five lines of data you entered for each name. If you print checks with PHA5AR, it will look in this file for any name and address information you want printed on the checks or you can provide it via the keyboard.

Print Telephone Directory Prints all stored phone numbers. PHASAR looks for the phone numbers in the first line. it will point whatever you

have entered there, however, View/Edit Special Occasions PHASAR can store up to 250 dates and a one-line description for each. Is only pays attention to the day and month, so it's general moreal annual events. Though it's primarily for barthdays and the like, you can add any special event or appointment you wish. Press [Esc] to return to the Main Menu.

PHASAR gurn Stephen Roquemore lives in Scottsdale, Arizona.

#### PHASAR 4.0 UPGRADE OFFER

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# Be A Power

Getting the Most Out of this Popular Accounting Package HASAR is a powerful tool for organizing your personal finances. But to the novice, such power can be a little intimidating. Steve Roquemore, who has used PHASAR almost daily for the past two years, leads you on an educa-

tional tour tbrough some of the amazing things you do with this program. The article refers to PHA\$AR 30, which is on this month's START disk.



# Phasar User

#### BY STEPHEN G. ROQUEMORE

o the uninitiated, PHASAR can be complicated and overwhelming. But ä's really not that hard to use its article, FII lead you through some of them so you can quickly become a 'rower PHASAR user.'

#### The Cash Flaw Statement

To help you control your cash flow, you need a very accurate "Cash Flow Statement" (also known as an "Income vs. Expenses Report"). The proper use of this function in PHA5AR will let you keep very tight control of your money and will ease the burden at tas time, too.

First, use the Stepp Menu to estifish all dyour operance categories. Here you need to be specific. Set up as many as you need. If you have a atuation where one expense can coverus a related and non-starrelated expenditures, create two expense categories. Be sure to create expense categories. Be sure to create these is doubt on the Federal and State taxes and FICA. Also, don't forget any local income taxes. Do this for each source of Income you have (i.e., if your popue allow works).

Next, set up separate income categories for each Job. Also set up "No Cash Flow" income and expense categories (more about this feature later). Set up as many income categories as you need and avoid having to put anything in Masc. Income (or Misc: Expense). The miscellaneous categories are supplied by PHASAR.

Now goto Set Up Accounts. Create an asset accounts called "Decletions" or assess similar name you'll immediately recognize as different from all of your other asset and habitay accounts. Set the heganning balance to zero. This will be the account you always use to precede your psycheck deposits. Also set up another dummy asset account which are balance. Call it womenhing like "Addenterst."

Be sure to cruster in a sust account for all your legislina assess house, cars, comparens, and all the other hings you own that could be sold for each. Also set up assest accounts for each of your misper exells cards hand with the balance to whatever their credit limits. The same the names you'l live for these credit cards when you are not the same as the names you'l live for these credit cards when you are not the same as the names you'l live for these credit cards when you are accounts for each of your checking and warps accounts for

Now set up a liability account for every place you make a payment to. This includes mortgages, loans, credit card payments, gasoline and store cards (if they work like a VISA), personal debts, etc. If you're renting furniture to own, set up a liability for this and set the beginning balance (as a negative number) equal to the sum of payments required. If the payment includes an insurance fee or other amount not related to the actual cost of renting the item, then do not include that amount in the sum of payments.

(Remembers when setting up liabilities, the beginning amounts are always negative. The beginning balances should be the amount owed as of this minute.)

After you do all of the above, refere the accounts ondincome and expense categories to make sure you have covered everything and that the bilances are as occured a syou can make them. He sure you have also set of Dispose Categories for all your payments to liability items. When you're saidle that you have covered all the basis, exit to the main screen and Saive Register Pile by pressing (Control-15) or selecting in from the File Menn.

#### The Net Worth Statement

You now have all the pieces in place to produce an accurate Cash Flow Report. But what of the Net Worth Statement?

At the main menu, dick on Net Worth and you'll be presented with a submenu. Choose Edit Assets. On each line (up to 40) enter a name for

#### DHACAD

the meet was want to show. Include your bank accounts, CDs - anything you've set up an asset account for Inthe next column, type in the account name. This will automatically use whatever the current balance is whenever you View or Print the Net Worth statement.

Here's a tio: when entering the descriptions of each account, also type in as part of the description the account number for that account This will serve as a very handy reminder later on when writing checks (either manually or with BUASAR) You should also use whatever lines are left over to enter descriptions and account numbers of other payments you must make (newspaper subscription, insurance navment, utilities navments, refundable deposits, etc.). Leave the dollar amount field emoty excent for deposits. You may enter the asset account name, or if you didn't set up

the serie vessel or gas can star the up/dewn cursar in ecific menth and change or antar as ansart there. Strik To the right of the budget amounts is a list of amoun evental scenars of sear full budget the of amounts

#### CONTRACTOR OF THE OWNER

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	actes]				

PHASAR includes ny of the functio on.

the deposits as assets enter the actual dollar amounts

When entering your cars, use the license plate number or the ID number from the title. When entering life insurance policies use the policy number in the description, and enter the current cash value or the asset account name in the amount column You could even enter a line that contains your family's Social Security numbers: this might be useful later

on for reference

Anyway, you get the idea: document the blazes out of every item Now do the same thing for all of your liability accounts. This can also include other things you consider a debt but did not set up an account for. For instance, you owe your aunt money but you didn't set it up as an account: enter it here with the balance you owe (not negative) Now review everything on the Net



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Worth Statement to make sure you've got it all nght. View the Net Worth to see if you like what you see and change anything that doesn't suit you. When you're satisfied return to the main screen and save the register file again.

Now go to Eriter Transactions. Select the Alymmer account mentioned earlier. Enter a payment for one oblatt whose. Exposure, use L23/3/80 for the date. Now enter the same transaction, same date, for a negative one oblate. Return to the main screem and select. Recording Balance of zero and L12/3/89 as the date. Now press Back to resum to the main screem, following the pronges. Save the Regater Ho one more time.

#### **Standard Transactions**

That was a lot of work, but I think you'll find it was worth it Just remember, you only have to do it once

There are a couple of more things to do, however, before you can become a true 'power PHA&A user.' First, you must set up Standard Transactions for all your regular payments and deposits; and you must set up Budgets for all of your expense categories and those income categories that are regular in nature (e.g., paycheck).

The PHAAR manual describes well the process of sering up Standard Transactions, but a few hinse, though us of up a separate page for each paycheck deposit and for different types of payments. For motigge and so on. This makes entering transactions more manageable. When entering the paycheck depositiol, use "Delections more than active the series and the paycheck deposition, use "Delectional" as the accounts show the gross amount of the check as the denoisi amount to motigge and the ordenis amount of the delection of the series and the series and the accounts show the gross amount of the check as the denoisi amount to more the check as the denoisi amount to more the series and the series and the denoise and the series and the accounts show the gross amount of the check as the denois amount of the series and series the appropriate income category. enter payments to the appropriate empense estenories for your tay deductions, medical and life premiums withheld, etc. Any cash amount you normally withhold when you deposit the check should be entered as a transfer to the cash account (PHA\$AR-supplied). The remaining amount is the actual deposit amount to your checking (or savings) account: enter this as a transfer to that account. The remander should non-benero. The reason for cloine things this way is that you now track eross income and will have the right figures for tax time-

Now set up Budget amounts for all Expense categories and the regular Income categories. Some expense categories won't need a budget, like Misic Expense, but enter as many as you can reasonably estimate. When you're finished,

continued on page 70



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# Disk Contents

Programs on Side 1 of Your START Disk

#### **BUDGETING BONANZA**



TAX TEMPLATES

PHASAR 3.0

PAGE 72

Tred of shuffling through a shoc box crammed with receipts squaining at the marks left by faide fibbon, trying to remember the amount of the check you forgets to record? Organize your finances with this month's feature program. PHASAR, the Predessinal Hore Accounting System and Register, written by Tom Marks of Marksum Technology. The program has been split into two artifics, tried PHASAR version 3.2 and PHASAR DataFiles.

And speaking of money, Uncle Sam wants his share. Yes, it's tax time again, and we're presenting Tom Chandler's **1989 Tax Templates** to use with LDW Power. In addition to the 1040 long form and its accompanying schedules, we've included spreadsheets for

calculating income from selling your home and moving expenses.

With the spare change left over after your annual IRS payment, you can have some fun, Las Vegas syle, playing Mark Siegel's Super Jackpot Slots. You have nothing left over, you say? Don't wony. You don't have to rick a creat fund

unfortunately, you can't spend your winnings).

TOLL FOR TOUR START OF 1.600-734-7001C SUBSCRIEF FOR STA ISSUES AT 399.95 AND GET THIS MONTH'S DIRK FREE AND GET THIS MONT

NOTE: Due to the number of complaints we've received about the Heida format, this is the last month we're using it. We haven't decided yet what will replace it, although we promise it will be more stable and straightforward than Heidi.

INSTRUCTIONS ON PAGE 69

#### PROGRAM REQUIREMENTS

competible net applicable	And a second	and the	1	Notes
PHASAR version 3.0	PHASARARC	1		
PHASAR Detelles	PH_DATA ARC	1		seeded by PNASAR x. 3.D
Super Jockpot Slats	JACKPOTARC	1		
1989 Tex Templates	89TAX.ARC	1		runs under LDW Power
PHASAR Tax Colculator	PHTAXARC	2		campanian to PHASAR v. 3.0
ST Writer Elite version 3.6	STWARC	2		
ST Writer Elite: Garmon	STW_GERMLARC	2		
ST Writer Elite: Speeish	STM_SPANARC	2		
ST Writer Elite Manual	STW MARARC	2		



Programs on Side 2 of Your START Disk

#### ST WRITER UPDATE

Dr Bucer Noomn dees it again? This month's homma is an update to the propatal scool processor, ST Writer File ST Writer Filler version 3.6 Nooman embedded the resource file in the program and speed up the search-andregize routines. In made the same microverness 15 or ST Writer Filler, German and ST Writer Filler Spanian, Nevie included the ST Writer Filler Spanian, Nevie included the ST Writer Filler Manual for those who want to brush upon all the features of this perential favorite.

As another tax-time bonus, we're presenting Tom Marks' PHASAR Tax Calculator, which works with PHASAR version 30 on Sile 1 of your START Disk. This program uses the data in your PHASAR files to provide painless tax statements. File now and get your refund early!

# A STATE CONTRACTOR OF A STATE OF

# Your Financial PHASAR<sup>®</sup> Partner

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The use of PHASER 4/0 p completing in leveral work to the tradition of the home counting to grain that reviewers and uses consistently found to be the exercise to use ind most payoff it motive interfacer available

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- \*"1989 Tax Templates

the same as and how an example a serie when

PHASAR 4.0 gives you the tools you need to clan and track your finances to enouge that you get the most benafit from your hard-earned norms.

PHASAR 4.0 helps with your taxes too shows your tax habitly at any time and sekes the haske out preparing your tax return at year-and

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# **Disk Instructions**

Now Using Your START Disk is as easy as 1, 2, 3!

#### **Running the START Menu Program**

From a Floppy Disk. Putyour START disk in drive A and turn on your computer The START menu program will come up automatically.

From a Hard Disk. Bod your computer as you normally would. If you're using a colar system, set the compare to medium resolution. Pol your START disk into ether drive A or B; and doublecikk on the three's loon. After the disk's detectory appears, double-click on START FIG. Note: Do not run the menus pragme from your band disket. Each would which are to own START: SNF file which must be in the same directory is START FIG.

When the meson program flar most will ado you and will be you and show you observe your fropp of duk drive configuration. It is very important but you enter this information concerdly, as the program will use the automation lister to correctly hou kup and prepare your program disk. Click on stegle or Dudule niedd cfrobed chives A and B, if you only have one drive, the Drive B handrow will be greed out. If you are unaxe whether your drives are single- or dudule-sided, click on Help

#### Whot Then?

This is where accessing your START programs gets easy. Just follow these three steps:

#### Format Disk

 Here, you can format a single- of a double-sided disk in either drive A or B Click on the drive containing the disk to format, sider Single or Double sided and then click on Format Formating a disk will delete that disk's contents. Do not format your START disk.

## Backup START Disk

2. We recommend that you make an archive copy of your STALT disk, which is no the opposite if your STALT disk, which is no the opposite if your that you have a single-index dire you can have a single-index dire you can have a single-index dire you can have a balance single-index direct system. The single direct system with a direct limit, and the single direct limit. The your can have a balance is adult as adult direct you can have a balance is adult of more single-index limit. It is a single direct limit, and the single direct limit, and the single direct limit. The single direct limit is adult with the single which direct is aff your which direct limit.

## Prepare Disk

3. This is the heart of the START mean program. The Propriet a Divis cytom to The system a Divis cytome a Divis cytome a Divis cytome of the programs, source (first and denomes of the programs, source first and denomes the divis the names of the programs are source of the programs are source of the programs are source of the programs, and the green full, you don't divis the division of the analysis of the division of the second barries of the second barries and an outry fuller downs would be "Searce Code for Avecut".

Next, a dailing box will ask for the distantistic directory, and whether you with to send the program files to a folder. The denomine directory may be a fleppy, hand drive or RAM drike. If you won to put the files as a folder, the program will offer you a default folder more. Press (Return) to use this name or exit the path directly. If the folder does not already exist, the program will create at if you select dark A or Bay your debitistion drive. The prostma will ask you if you want to format the destination disk. The menu program will then un-ARC the files directly to the destination drive, and will minimize disk swapping by analyzing the drive configuration you specified earlier.

#### **Bonus Options**

Each month, your START daik menu program will include special bonus information ranging from the usua's disk contents and coming attractions to special subscription offers and the latentbreaking atan news. Chick on the various menu buttoms and scredi through the main menu window to read this information.

#### And There You Have It

For more detailed instructions, click on the Help button. Click on Esk to return to the Desktop. And that's all there is to  $n \rightarrow un-ARCing START programs was$ never easer?

#### Credits

Your START disk format and interface were developed by some of the most talented programmers in the ST world. Contributing Editor David Ramsden wrote the interface for the menu program and the custom un ARCine routines that are as much as 60 percent faster then ARCX TTP. Contributing Editor Dave Small and Dan Moorewrote the Heidi formatter that made the back side of the START dark accessible for the first time. Charles Johnson of Codehead software wrote a custom version of the STARTGEM program that lets the mean program pup at boot time even though it's GEM-based

#### PHAŞAR

#### continued from page 65

you'll be set up to graph your Actual vs. Budget expenditures to see how you're doing and to make any necessary adjustments.

If you pian to write checks with PHXARA, you also need to enter all the appropriate information in the PHXARA more than the Thermonouslewing goale you here. If you're using version, 30,1 and you use or plan on using The Tax Advantage tax program by Double Engle Software, you also need to go to Set Up Tax Advantage Caches in the Strap Mercu The Tax Advantage Manual will supply the appropriate caches you'll need and the PHXARA more approximate caches you'll need and the PHAAAR manual relity you how to omer the caches.

Now, exit the program after saving the Register File one last time. Copy the

# don't even use a spreadsheet for budgets anymore.

register file to a backup disk and guard it with your life! Lay this because I once spent over a week rebuilding my file after I somehow trashed it. But I know the fault was all mane — PHASAR has not caused one error in over two years of daily use.

#### What's the Paint?

You may be wondering why all this work is necessary. I'll try to make all of this clear.

First, we've already discussed the inecessity for an accurate Gash Flow Report and NeW worth Statement. The Net Worth Statement can also aid you when you apply for a loan, so if you keep all of the relevant data there, it will suve time when you go to the hank or finance company.

Second, most people only show their loans and credit card payments



PHASAR's Net Worth Stotemen lets you colculote your total net worth bosed an your ossets and liabilities.

as expenses, so they don't have the capability of tracking these balances and checking their credit card transactions. By keeping these as liabilities and posting payments to the Inhibity accounts, you can monitor the actual remaining balances, and showthem on the Net Worth Statement. Remember, all assets and liability accounts must be according periodicalls (not just the back accounts), or at year's end you'll fill up next year's file with stuff you don't need. You need to do this arreative to track coucht card transactions and the like-Post caught more than one provide my coedit card statements this way.

Some people show these assets and liabilities as described above, bout do not have an expense category for them so they can track the actual psymens. This grows them an accusate Net Worth Statement, but ther actual "expenses twis ancome." That's why you also have an expense actegory for each liability payments.

#### Every Problem Contains Its Own Solution

Now that you have all this set up, there are two ways to enter your turnsections to support this activity. But first, a little background. PHASAR, as good as its, has one flaw, when entening split transactions, you can only split between different expense for income) categones; you cannot split between an expense and a liability, nor between an asset and an income category. It also forces you to treat payments to asset or liability accounts as transfers.

Because of this limitation, use the "adjustment" account. When you set up the Standard Transaction Page for Liabilities, you should have entered the novment as a transfer from the peaking account to the Lability account. This will accurately reflect the balances in both accounts. You also should have set up a payment from the Adjustment account to the concernanting expense extensors for that liability. By the way, this theory also holds true when you have a normal newment from checking to savings. You should have an expense cotoport for analoge

A side effect of these humanors, we have the flyour of balanges as J ast described, normally your paying account will show a double payment which you would have to play around with to get your paying account to show the correct balance. If you remember, 1 day to the role to do the show the correct balance. If you remember, 1 and recorde the mas of 12/3/189, We're now using PMASA to overcome is som illustrated for correct is one functional

Any time you enter a transaction in the adjustment account, you'll specify the real date, which of course will be earlier than the last-reconciled date. PHASAR will then ask you if this is already accounted for. You will enthasistically answer yes. This causes the amount of the transaction to be correctly posted to the expense (or income) category, but not affect any other bializes, including the zero balance of adjustment? Your normal paying account is not affected, of course, because the payment was not issued from there. If you enter a dute of 12/3/189, you're still OK.

You should handle all payments to expense categories for liabilities (and assets, for savings and the like) this way. Your normal paying account will always be accurate and your Cash Flow Report will be tool

Remember to post transactions from cach against your Tayenne categories as accurately as you can. The ideal is to wind up at the end of each pay period with a zero balance in cash. This means that you have accurately (we houp elacounted for every permy apens. Now, of course the isin't going to happen in the easi Work to tag agve it your best shot. Any fellower in cash should be posted on Misc. Tapense, since one way or another, the cash wert, sourceshore

#### Come Tox Time

A comment or two on handling tax time: PHA\$AR has a nice program for doing your taxes, but I never used it. because I've used The Tax Advantage (Smon & Schuster) ever since it was released. I highly recommend you use this product PHASAR v. 3.01 lets you set Tax Advantage Codes in your Register File for use he The Tax Advantage. At tax tame, you just copy PHASAR REG to your Tax Advantage data disk and the program loads all your toy data for your Boar in mind that it will only load those categories that have Tax Advantage Codes entered in the Register File, so do the heat soly your care up wetting up your expense and income categories and applying the correct codes. It takes me less than one hour to completely do my Federal taxes this way including the Long Form. Schedule A and detailing of miscellaneous deductions

#### No Cosh Flow

Semetiness you have a deposed and/ or a payment that sub doesn't like into your regular category and account structure. Hyoo handle is in the normal way, it will skew the results of your cash How Reports to that it doesn't miller trading in this care you port the transaction to "No Cash How" and the amount will noo be shown in your Categoria How Reports how your overall financial position will use it your Category Shinnary, then are treated like not cash they are shown. In your Cashed

An example would be when your company gives you a check for \$2,000 to pay the movers when you're transferred to a new state. If your handle it this way, the deposit will not affect you at tax time, nor will it inaccurately inflate your overall income total. When it comes time to nay the movers, you nost the actual amount. if equal or less than \$2,000 to "No Cash Flow" expense and the remander to 'Moving Expense,' This amount also needs to be taken out of "No Cash Flow," income and shown as miscellaneous (taxable) income. unless you have to give it back to the company thanks it can be applied against your other moving expenses. If the payment to the movers is oreater, then the \$2,000 is entered to "No Cash Flow," expense and the rest

#### Conclusion

Thope this has been helpful to you. I have found the combination of PHASAR and The Tax Advantage to be more than capable of handling all of my needs financially. I don't even use my spreadsheet for my budget anymore.

Steve Roquemore is a freelance writer who lives in Scottsdale, Arizona. His past work includes a review of PHASAR 3.0 in the June 1989 issue of START.



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## START's 1989 Federal Tax Templates

#### TEMPLATES BY TOM CHANDLER ARTICLE BY ANDREW REESE, START GRAPHICS EDITOR

It's time once again to file those tax returns with the Internal Revenue Service. On your START disk is a template for use with LDW Power. If you have the program and 1MB of memory or more, you're all set to get your return filed accurately and on time.

April 15 isn't for off, but help is on the woy in the file TAX89.ARC on Side 1 of your START disk

earing your hair out doing your taxee? Almost ready to harea CPA? Before you go bald or broke, try loading our 1990 Tax Templates into the LDW Power spreadsheet program. These templates will help you prepare the following forms for 1995:

- · Form 1040 (Long Form)
- · Schedule A (Bemized Deductions)
- Schedule B (Interest and Dividend Income)
- Schedule C (Self Employment Income)
- · Schedule D (Capital Gains)
- Schedule E (Supplemental Income Schedule)
- · Schedule SE (Social Security Tax)
- Form 2106 (Employee Business Expenses)
- . Form 2119 (Sale of Home)
- · Form 3903 (Moving Expenses)

#### **Getting Started**

START's 1989 Tax Templates require an ST or Mega with at least 1MB of memory; LDW Power from Logical Design Works, your 1989 Form 1040 and Instructions; and your START disk.

For further tax assistance there are a number of books available at bookstores and newstands or you can pick up a free copy of Publication 17, Your Federal Income Tax, from the IRS: You may also want to have a printer connected to your ST, so that you can pint out your completed templates.

To get started, host this month's START disk; the START menu program runs' automatically. At the main screen, click on Prepare, then select "1969 Tax Templates." The specialsheet will un-AkG directly onto the destination disk you specify Included within the same directory is an ASCIT-exet READ\_ME file that liss all the forms used and where they're located within the template. Now, start up LDW Power . Load In 89TAX LDW and you're ready to begin.

#### Spreadsheets and Taxes

Each piece of information is encredin a spreadhexet ell—similar to the lines and columns on your tax forms. We've already derived and included the formulas you'll need. If your data changes (you find another stack of recepts, for instance) go to the appropriate location, change the number three to the correct figure and the relevant portions of your tax return will be recalculated.

Many different taxpayers can use the same tax template. For example, you can save your own template out to disk under the name MYOWN.LDW and then reload the blank template for your brother to use. He can then save hists o disk under the name BROTHER LDW, and your aunt can then use the blank template.

Keep your IRS Forms and Instruc-

#### TAX TEMPLATE

tions booklet nearby while you're preparing your taxes. While we have identified every line on the template with the line number from the forms, we couldn't include all of the notes, references and cautions on the original forms. You'll need the instructions to decide how to treat some of your income and expenses.

If you need to complete forms that are not a part of this template, you'll have to complete them manually and then transfer your figures from them into the specialsheet. The program and template can take over from there

You'll have to compute your own tax; we just couldn't include all of the Tax Tables and Tax Bates without ballooning the size of the template. Once you complete Form 10%0 down to Line 37, Taxable Income, follow the instructions from the IBS to calculate your tax and enter it on Line 38.

When you complete your template and arrive it a correct figure for the field of the field of the to disk Then, follow the instructions that came with your spreadhect programs to prior cat a copy. LDW Power comes with a utility that kess you prior spreadhects sideways, enabling you for wider prioritoms on a page. See the appendices to the LDW Power manual for directions Remember that the BS will not accept your printed spreadhects in ficial returns.

As with any complex and ingrouting project, he muse to save yours work discussion and examine your results with pract care if sementhing discuss holes right, check your genes area for your by you can if that any eners, seed has errors a property by the USA are incomercidate early and hittenetic errors. The energy of the energy source in the formation is that will make covere calculations, but you're exponsible (or energy you information group and the formation is that will make covere calculations, but you're exponsible (or energy you information group and the coverse is the same property of the same in your accurate and the same property of the same in your accurate calculations as an another plant angle is musicing by an angle of the same property of the same property of the same in your accurate calculations as

Good luck! And remember: tax avoidance is not a crime, but tax evasion is?

Andrew Reese is special Graphics Editor for START and a former attorney and tax preparer. Tom Chandler is a Certified Public Accountant in the San Francisco Bay Area.

#### PRODUCTS MENTIONED

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Fully computable with copy protection programs the ST Copy. Oxy II ST and ProCopy Back Trait creations you got presented programs on the backlade of your dask. For example unexpansing the backside of Dangeon Maater — then switch back and forth instantly without recording date. Ox, save a two-date set on a single date.

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opplications Gaming famour less you save almost arty game, then container playing If you get annotasuble, pass switch back as where you were, in many them is not like? Jonant setting?



playing E-you get reconstruction, play were some to see when you were in many times in you like' fature replay! What's meet, Sanch-Rack lets you save many protected programs as unclear TOS first - as to suced sugerher on Calo,

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"Alphe Seprem has done a game, Another programmedad"

LeRoy Valley ST Jedormer, August 1983

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recordings The first of stokend program actually lets your ST play back in seal same Record an expen plants, play back and work hower for an overlass of the self-sector actions A real-tane, fine-kase feature allows total pitch control

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## For The Fun Of It

## MANIACS, MISSIONS AND REMARKABLE MACHINES

In which Andrew Reese joins a cult, David Plotkin joins the military and Stephen Mortimer takes Atari by the hand.





On not Sexy Sandy has been obducted by psychopaths and is being held in the sinister Meeiac Mansion. De you have the stomach to save her in the latest BPG from Lucosfilm?

Interstellor worriors, arise in SSI's Stor Command! Take the captain's wheel and lead your crew of sight, recruited and trained by yourself, an critical missions

#### MANIAC MANSION REVIEWED BY JADREW REESE SUBJ CRAMMARS ENTOR

Just as there are cult movies, so too are there cult games. One of those is Lucasfilm Games' Manise Manston, a crazy and *furmy* adventure game filled with monsters and madness.

Munitic Mansion was the first graphics adventure game from Localitan Games, released in several formats in 1977, and quickly became a far. The game execution system used on 2ak. McKracken and the Indy Adventure Game is called SCUMM, the Script Creation Utility for Manise Mansion. It was in Munitic Marsuon that Localith's useque point and click semence builder for character control first agerent.

But it was not until late last year that Lucasflin moved Maniae Marine Marsion to the ST-Thankfully, they waited until they could use a late generation of SCUMM to produce higher resolution characters and screens. The wait was worth it, if you've seen Maniae Manison on an Apple or Commodore 64, you know what Treant I's also nice that you can install Maniac Mansion on a hard disk to speed up game play.

#### Uniquely Lucasfilm

Like other Lucasfilm emphase adventures the Maniae Mansion screen is disorted into fise smass. At the too is a message line and immediately below it is the Animation Window, where all the action takes place. Next down is the Sentence Line, followed by Verbs and your Inventory To make your character(s) do anything you form a command nontunea by elicizing on a comburation of verbs, items in your inventory and objects and creatures in the Animation Window, Since the parser search through every possible word you can think of, it can handle its limited vocabulary much more intelligently. For example, if you want to change a noun in your sentence, you just have to click on the new item and it will replace the appropriate noun

#### Maniocal Plat

It seems that Sandy, a weet, young cheersleer, is brieginghelf in the basement of the strange marrisen owned by maid scientisi Dr. Pred. Aliou in the mansion are Narse Fahns, Weer Jak, Deat Coults "Test, the weet Jak, Deat Coults "Test, the veet, Javani tak, to rescues Sandy from this collection of workook by directing a strain of forairenzages, including Daves, Sandy's boyferind, and leves often syou can choose Etch of the sterages has a "taken" from playing bavey metal to ryping.

The amazing and delightful thing about Maniac Mansion is that you can solve the game with anyiesm of three, but the gamephay and puzzles will be different, depending on the make-up of the team. Win the game one way and you won't put it away—you'll want to ty a different team ... and then another. The graphenes are quite sould and the 'un-senser' (meeting). azimition scenes that show you what's going on elsewhere) are very well done. This is a game that's fain to play with three of your friends (or kids) hinging over your shoulder, telling you what to ity next, but be sare that you save the game often, as there's ne telling when one of your team will meter an untimely demise — lifes ust going to the kichen for a nanck!

#### Liked the Game, But ....

Thise this kind of game, although for all the convenience of the command structure, I'd like to have the alternative of typing in the same words. It would be quite a bit faster, provided you can type reasonably well. The

Maniac Mansion was the first graphics adventure game from Lucasfilm.

best of all possible worlds would be for Lucasfilm and Sierra On-Line to combine their interfaces.

Lucasfilm nuts out the absolute best hint books I've ever seen and the one for Maniac Mansion is superb. It gives you four ways to chest, color-encoded carettoos and answers, a list of objects and their uses a map of the six floors of the manijon and finally a scene-by-scene explanation of one solution. You can get as much help as you want. I have moved feelings about whether to recommend that you buy the birt book. The same is so much furwithout it, that it's a shame to take short cuts and miss out on some of the designers' humor

If you like graphics adventure games, you'll want Maniac Mansion. Absolutely. It's not only a cult classic, but a fun way to spend (gutte) a few hours.

#### STAR COMMAND REVIEWED BY DAVID PLOTON START CONTRIBUTING AUTHOR

Star Command is a role-playing game where you guide a eight adventurers around the galaxy on their missions and battles in the far future. Game play is fun, but hampered a bit by cumbersome controls.

(Editor's Note: According to SSI, some copies of Star Command usere released with a key-type virus. Any virus killer, such as George Woodstale's V-Killer, util remove the virus. You can also return your disk to SSI and they will shadly replace it free of charge.)

#### Storting Out

Start or, By packing your pury of eight PHots, Mannes and sidden. You needs at least two pliths (cone to By your ships and one to By the dropbest down to planest). The other six members should be having in the six of the purses should be having in the six of and the six of the six of sources and the six of the six of sources and the six of sources and sources and and exhore a higher shift ming mercuit and networks a high a poordy performing mercuit and networks a high a firsh one best of the six of the

The first thing you must understand is that you're poor. It quickly becomes apparent that you carri amass enough funds to get the equipment you need by honest means, so you must resort to miding high-lech worlds and stealing items to self at the space station. There's simply no choice.

#### Spatial Relations

The playing area consists of the enterior playing area consists of the enterior which is considered relatively safe. It's hourd by three space sistions, which are used for fueling and supplies. To one side of this triangle is a zone almost completely overvus by plantes of human descent, and on the other side, an allen insectiol arce holds swary. Needless

continued on page 80



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#### FOR THE FUN OF IT

#### continued from page 77

to say, they are hostile.

The main playing screen consists of three sections. The first is an area across the bottom that lists commands. The second shows the status of each person in your party, and the last maps your environment.

The galaxy is divided into a grid 32 sectors high by 32 sectors wide. A scale while course represents your shap move it uround the galaxy with the arrow lays. You must be careful, though because traveling from sector to sector uses fuel. If you run out, you will eventually he rescued, but some of your men muy starve to death waiting.

#### Two Things Can Happen

Basically only two things can happen in Star Command: communicating and fighting. Your encounters with other ships and heings are either friendly or hostile.

Space huttles are broken into movement and filing phases. During the movement phase, you can rotate the ship lano any direction and position your sepaid around, or jump ano hyperspace if you thank you're overmachetch. In the listing phase, you can shoot ships in range and see results. Each tarm flies off routifield shots, the exact number depending thang the weapter. One annoying thang



TIGER for Atari ST and Amiga "The music program for the rest of us." /Realtime Recording /Graphic Editing / Quick Searing / Fully Interactive / Conductor Truck / One Step Editing / Object Orlented /Loon Recording / Step Time Recorder /Seart Instrument Setup / 384 PPO Resolution n.and Group / Supports Amiga IFF

/ And It's FUNTR

about combat is that all the guns that are targetted continue to fire even after the target is destroyed, wasting ammunition. After awhile, however, 1 was able to anacipate when a target was nearly destroyed and save my bullets.

You can try to board the energy vessel, in which case the action becomes a personal confrontation between your six men (excluding the pilets) and the energy crew. Such a confrontation can also occur if you send your party down to a planet surface. On a planet, you can retreat from the enemy, however, on a spaceship the combat must be resolved Bersonal combatis much like ship combat. If talking fails, fight, One thing the manual never mentioned is that pirates can surrender. and you won't be allowed to shoot at them if they do, even though their surrender is not reported until the combat is over

#### Questionable Commonds

The controls for Star Command are committee comborroome. These consists of single-key commands, and cuestion/answer interaction. Sometimes the mouse pointer will work to make the selections. The graphics are also relatively simple, if not crude, but they do show you what you need to know. The game does not work under TOS 1.4, and pressing [Controll-IC breaks into it A number of bugs also showed up, including the Fact that the unproduct averaging rating doesn't show up properly when you inspect your sound. There are also some things I priver did figure-out, such as why a weapon sometimes showed up with an saterisk next to it.

Despite these small annoyances, Star Command is quite playable. Since different missions show up each time you start a new game, it remains a challenge, and with all the complexities involved can absorb you for a long time.

### THE LYNX HAND-HELD GAME SYSTEM

## START CONTRIBUTING EDITOR

The Lyme — is it a car, an animal No, it's Ataris vero kinanay color portable entertainment system? I was hocky enough to parthase one of the 70.00 units shipped to sources. Comined with Iscal I'V sisk and features in magazines, most of these units were sold one. If of the first were a direr their introduction in the November Of courses, all of the first addring in yours and overall but system hore November Of a means of the system hore November Of a mean low system hore November Of a means by the first and were all of the hore system hore November Of a means by the system hore November Of an mean low out of the water.

## All the hype is justified: games available for Lynx are some of the most addicting in years.

The batteries have a life of approximately four hours of use, and the unit shuts off automatically after a period of inactivity.

Game cards that can hold up to 80HB of information are inserted into a slot that is revealed when a hatch is opened on the side of the Lynx. Volume and screen contrast controls are on opposite sides of the unit that fits comfortably in the hand. Headhones can be connected for ntrivace

and the screen can be flipped for left-handed users.

#### **Games Included**

Included with Lynx is California Games by Epyx. Four events — BMX racing, surfing, halfpipe skateboarding and footbag provide for a great introduction to the system without the immediate need to

purchase additional games

Other games that exist include a Blue Lightning, Electrocop and The Gates of Zendocon.

#### **High Quality**

Atari's layers in high-quality game, system Game action is very realistic, fast, and smooth. Hawe gone through these sets of batteness and several houses of AC power in only invo weeks of use. Although Inavent Kourd another Jayne to fest this, multiple utilis can be connected by a Conflyrux calific to allow multipliying games with each player having their own perspective on the action. The numperispective on the action. The numbrisher has utilizen so with the sets two people surf together at the same time, either helping or ramming each other. Atari has a hit in their hands, literally, in Lynx.

#### PRODUCTS MENTIONED

Monioc Monsion \$49 95, and Maniac Monsion Hint Book, \$12 95. Leastim bd., P.O. Box 2009, San Robael, CA 94012, 14151 c62-1966

#### Stor Commond \$49.95

SSI, 675 Almonor, Sunnyvole CA 94086, (408) 737 5800

#### Lynx Game System

\$150 Atoi Cosp., 1196 Iorregos Ave., Sustavole, CA 94086, (408) 745/2000





Here it is! The Lynx, Atori's new color, portable entertainment system.

#### Impressive Package

The Lynx is made from high-lenpact plastic and features a color LCD screen with a resolution of 160x102 pixels Sixteen colors are available from a paletic of 4,096. The 4MHz processor keeps the action fast paced and custom chips handle tasks pormeliv dene in a effware.

The hardware allows for an infinite number of spittes, has a built-in scaling system to create realistic scenes as you approach or move away from objects and has collision detection. Iterarally, the joyped and buttons use awtiches with conductive rubber contacts that pervide hap reliability.

Finally, the Lynx is powered by sit AA battenes or an AC powerpack



BY MARK SIEGEL

With flashing lights, buzzers, bells and the chance to win some big money, slot machines can be very tempting. Unfortunate-

ly, playing them can be bazardous to your bank account. Now, with Mark Siegel's Super Jackpot Slots, you can get

the feel of playing these one-armed bandits on your ST and it won't cost you a dime. The program runs in low resolution onty. A winner everytime in the file JACKPOT.ARC on Side 1 of your START disk.

You've ever hern to Las Vegas, you've seen them: slot machines, rows and rows of slot machines. Cicking, clacking, buzzing and ngong, these machines can lead you to fortune or disaster, depending on how mach you're willing to spend and, more importantly, how mach you're willing to lose.

With Super Jackpot Slots on this month's START disk, you can play the slots, absolutely free and in the privacy of your own home. You still get the clinging and clanging but at least you won't lose any money (real money, that is).

#### **Getting Started**

To play Super Jackpot Slots, boot this month's START disk, the START memo program runs autorastically. At the main screen, click on Prepare, then select "Super Jackpot Slots" The program will un-ARC directly onto the destination disk you specify. Make sure the files SLOT.PRG and SLOT.DAT are an the same directory.



Super Jackpot Slots was written in GFA BASIC 2.0 and runs in low resolution only.

At the Desiston, double-click on SLOT. PRG to run the program. The game will take a few moments to load and then the screen will display. six one-armed bandits traiting eagerly for your money. Click on the small dollar bill in the upper left corner, and an alert hox will appear. giving you the choice of gambling with \$50. \$100 or \$200 in computer cash. Decide how much you can afford, then click on any of the six skit machines to play. There are two 25-cent machines, two \$1 machines, one \$5 machine for all you high rollers and a 5-cent machine for the conservative aurobler

#### A Typical Super Jackpat Slat Machine

Let's finalitative ourselvers with one of these highly sophisticated gambling devices before we take it for a spin. The upper section of the slot machane diaplays all the possible winning combinations of symbols and the number of coins each pays. As with many of the slot muchines in Las Vegas, you with the biggest packpot if you line up three 7s in a you.

On each of our six machunes, the normal payoff for riple 7 is is 200 coins. Of course, that's condy \$100 on the nickel machine. But you're not risking much. It's much more on the \$5 machine where those 200 coins add upto \$1,000. However, each machine also has it's own progressive "super yickpot," which can get a high as \$950 yrb. This jackop gets larger as more and more money is any into the machine. The amount continues to grow until some lucky devil wins it, and then the jackpot is reset to a lower amount.

To make things interesting, the jackpotogales on or off with each coin inserted into the slot machine, so you may not always spin with a chunce to with the larger amount. To collect the super jackpot you must hi dree 7 while the super jackpot total three 7 while the super jackpot total there 7 while the super jackpot total the roomal jackpot of 200 coins. The lower half of the sket machine consists mailpoil of the three receils that spin when the arm is pulled and then randomly come to reat, displaying different combinations of symbols. These symbols way from machine to machine. Some machanes have cherries, ether-have gaapes. Some may have gold bars, or dice, or neither or both. And by the way, if you get three lemons in a row, don't get extired. A tenon on these

continued on page 85



Super Jackpat Slats brings all the excitement of Las Vegos slat machines to your ST. At the opening screen, choose the machine you wish to play. Dallor omounts range from five cents to SS.



Amozingly realistic, Super Jackpot Slats' game screen simulates slatmochine action almost perfectly — just put your coins in and pull the slat!



Which has the greatest speed, elegance and ease of handling?



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you debug interactivly in the interpretive mode. Just try that with a Porsche 928.

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🔄 GFA BASIC, of course.

Sure, both are designed in Germany by engineers deficited to being the best. And although Poruche has a tudy enviable record on the reac track, only GPA BASIC 3.0° can claim to be the fastest of its kind. With over 300 commands and the ability to substitute a single keyword for a screenfal of conventional code, GFA BASIC 3.0 boosts your programming speed like nothing on wheels.

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Even writing code is fast, because GFA BASIC 3.0's remarkable smart editor instantly checks your syntax as you enter lines.

Sure, the Porsche 928 is the epitome of automotive elegance and timeless desgn. But it car's compile your program. Not only will GFA BASIC 3.0 compile your program, but you'll only have to compile it once. That's because in GFA BASIC 3.0

## Your winnings will spit out from the bottom of the machine.

#### continued from page 83

machines is just as good as a lemon at a used car dealer.

On the lower right of the slot machine is the slot for inserting coins, and on the lower left is the "win meter." This meter counts out how many coins were awarded, if any, on the preceding spin.

You'll also notice a stack of coins to the right of the slot machine. This is your eambling money, thoughtfully provided by your ST. No more then 25 coins are shown on the screen at one time even if you have hunderds of oning But as soon as you have less then 25 cours your stack of money will begin to shrink If there are no coins showing on the screen, you don't have enough money to play that machine, but you max have enough to play another. For instance with \$4 remaining would have no online to alter the \$5 slot machine, but you'd have 16 mins for either of the 25-cent machines and a hune study of 80 coins if you played the 5-cent slot mahine

To switch from one dot markine to anchor, click or the link yellow batton marked TF (for estil), suite the tengdto of the warm meter. This will take you back to the opening screen, when you'l markets matter has polyting in flashing. You can policity on the single machine or any one of the others just by dicking on IV you cannot leave a machine after you're inserted money into IV, You walkin't do that at Las Vegas waveld you? You'l have to wait utill after you selin.

While you're playing a slot machine, your gambling bankroll is displayed in green, in the upper right of the screen. When you have less than 25 coins, this display will turn red to wam you of impending poverty: Of course, if you were actually playing the sices, you probably wouldn' know exactly how much money you had at all itimes, unless you counted your money after each spin. So for you purish, cike (on the list eyellow humon marked 1% to the left of the win-mener. Privity, you gamhling amount is no longer shown. Cikk on the button once more to restore the diaplay.

#### **Playing Super Jockpot Slots**

Okay, enough preliminaries, let's phy. Move the mouse pointer over it the stack of coins and click. A coin should a poer increase up, in place of the mouse pointer. Press the left mouse pointer. Press the left mouse paint of the left of the mouse again. If you did this correctly the coins will dial harminesh back into the mouse rule if you mouse the short and the sponynise polyine marker will fight they fly our mised the short her coin will fail harminesh back into the mouse they show on the storem, but it's here, that must

You can be from one to three ceises on each spin Hyop Jay Jaya one coin, the slot muchine will pay off on the muchine will pay off on the muchine will pay off on the muchine you of do na waning combination. Waper the maximum of three coins and all three raws of symbols are possible willnews. You can traje to one than three coins in a muchine at one time. After three coins have here inserted, you will not be able to pack up another one from the stack.

If you've finished feeding the slot machine, you're ready to roll. Move the mouse pointer onto the red ball at the top of the arm. Now click the mouse and pull the arm down. The three reels will take a few spins and then stop from left to right. If a winning combination of symbols comes up on a payline which is lit, you've won. The number of coins you've won will be displayed on the win meter, and your winnings will spit out from the bottom of the machine.

If you wanto play there coins a a time, there is an alternate way to work the muchine. Click on the batton just to be left of the coin as lot Distant just to be left of the coin as lot muchine (25 corns), st.ect. Three coins will automatically be subtracted from your burknoff and the receive will spin immediately with no need to pull down the away. This method will net work if you don't have enough coins of you've leaded justed a coins into the slot. The batton will darken to indicate this.

The game ends when you're out of mensey. You can go take the the opening screen and get more money to lose, or you can quit the program by clicking on the green cut sign in the upper right of the screen. When you end the program, the file JACR/OT.DAT will be updated and he next time you play Super Jackpot Slots all the slot machines will be just as you left them.

#### Progrom Info and Wrop-Up

Super Jackpot Slots was written in compiled GFA BASIC 2.0. All of the program's graphics were designed with DEGAS Ellie: Some of the sound effects were digitized using REPLAY 4 from Microdeal. Special thanks to 2-Bit Systems Replay for helping get those sounds into the program.

Good luck and may your super jackpots grow forever.

Mark Siegel lives in Van Nuys, California. This is his first program for START.

## **Getting Started**

been stranded in last six months. you're probably aware that the San Francisco area experienced a major earthouake last October I have been employed for several topore ne o soleemon for an ST dealer located about 100 miles north of the enicenter of the make - we were pretty shaken up but experienced no major damage.

Wolf Ldon't know what seismic radiation drifted up our way after the earthquake come into the store the following week with data disks that they could not access and for which they had no backup. In most cases it was while trying (too late) to make a backup the they discovered that the disk or some particular file (always an important one) nate no longer modatelo

After helping the fifth person to recover lost data, I decided to

write this article to prevent others from ever finding themselves in this position. While there are both commercial and public-domain programs that might repair your disk, exercising some basic principles of

SAVING CAN SAVE YOU FROM AFTERSHOCKS



computing storage is a much better safeguard against that inevitable day when a disk dies.

#### 10 Steps to Healthier Data

Disks do die! They die because they

are old, they die because they are worn out: they die because they get dirty: they die because of poor media (wou bought them at a flea. market for 50 cents each) they die because the computer not confused on the dick drive max out of whack and wrote some earbage onto the disk Least of all they die because you had a power surge or failure while accessing the disk. Remember, the question is not if, but when,

Following are some basic principles that will prevent the loss of your valuable information:

1. Clean your drive heads moulasty A speck of dirt can land on an unused track of a disk en unnoticed then transfer styelf to your drive head and proceed to wine out a few disks, or rodepositional on a serve important track of some other diale Head-cleaning kits cost only shout \$10 and are good for up to 30 cleanings.

Clean your heads every three to six months if you're an average user. Once a month is about right if you're a daily user, if you work in a dusty or smoky environment or if you receive a lot of disks from non-commercial

## Save your work every 20 to 30 minutes.

sources outside your control (e.g. swapping with friends, public domain from clubs, etc.). Anytime you get a reid-write error more than once, the first thing to do is clean your drive heads.

 Same your work every 20 to 30 minutes, especially if a car't be easily re-created it never seems to fail that dusting a period of intense concentration, two bours and three pages later, If Orget to save and then it happense the system crashed Word/Verfect has a unique feature that lets you set a time period for an auto-awe. Most people set this for 10-15 minutes.

3. Same your work twice on two spranter /kpipus, or once to your hard disk and once to a /kpipy unitout availing until you and back to the Doskip. This cannot be emphasized too much. It guarantees that you'flave an immediate backapus to everything you do. If you have ongigatal disk, then take r out of the drever and pat in your backap and save your file again, then put the ounsal disk back in.

If you have its odreves or a hard drev, save to be fin to on, then dick on "save sa..." and change the three identifier (most cash) done with Universail lines "section or the new Anni Rainbow 'TOS), make sure the tilt and sub-directory (fideler) are correct and save signs. I don't do tros aves every single time, but I do it at least once an hour, or especially if I have made many significant changes and certantly before I quit the program.

 Store one recent backup of a longterm project in a remote location. There was a story in the local papers a couple of years ago about a man who had been working on his doctoral thesis for free years and was almost ready to solunit F. His house, unfortunately, houred to the ground, and along with it, all of his backup disks and a hard copy of his theory. The man stated he could not reconstruct it as his notes and research files were burned also. The lesson to be learned, leepa sayare copy at the office, at a friend or relative's house or in a safe-doposit box.

5. Check the number of lypers at the end of the formating percess. It is single-sided format does not end up with 357.576 bytes available, or a double-aided format with 786.016 bytes, do not use that dask, well give you poblement socore or later. Try reformating, Il you all doo'n get the correct number, toos he disk because it has some hud modula sectors on it. These numbers perturn to the standard Atari 60-rack, ninesector format:

Thave found the formatting programs built into some software or on public-domain disks to be unreliable. The only ones I use are the Atan TOS format, or Twister (START magaznoe, Summer 1987) when I need a little extra space (400K singlesided or 800K double-aaded).

6. Wintly your disk-drive light any time you cick to something under the Pile mean. The light as there to monitor the operation of your disk drive. If the light doesn't come on, you have either at a handware problem (Drive B notturned on, cickles not plaques) in poperly, power supply lishare or computer maffunction(b): bu human problem (your hand signed while clicking or you gave the word while clicking or you gave the word while clicking or you gave the word with diffunction. 7. Do not use any one disk for more than one year—make that six months if you use the disk on a daily besix. The main reason was given at the beginning of this antick eides do die. If the label is getting duty from your thanh, it's time to remarke that disk. Use a baread new disk, format it, then put the date in timy letters in a corner of the label.

When backing up the disk, do not make a disk copy (i.e., do not drag the A icon over the B icon). Make a file copy by dragging the individual files from the A window to the B window (or your RAM-disk window or hand-disk partition, then drag the files buck from the ram disk or hard disk to the freshly formatied disk.)

Backing up your disk this way is important because when you delete a file it leaves a "hole" of unused sectors on the disk. You then save a file that is larger, and the file can't fu in the first empty hole, so the computer divides it into two or more papers, depending on how many little holes there are. Once it has filled an all the holes, it will prote the balance of the file st the end of the disk. After months of this, the files on has been been the one shifts and fragmented into many pieces. The drive time actually slows down looking for all the pieces to a file when loading it. Drung a Copy File momentum the file porton into sequential order for each file, thus restoring the integrity of the files for eventer reliability and long-term use

 Check your drace speed occasionally. Most user-groups and BBss have a drive-speed tester in the public domain. Get one and use it. If your drive is running at 302 RPM or more or at 258RPM or less, have your nearest Atari Service Center adjust it for you. The cost will be minimal.

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#### GETTING STARTED

## Always back up your disks.

 Check your disks for thrases: Get a public domain vanas checket such as George Woodside's WAILLER from the same sources and use it, especially if you get disks from a wide variety of nonconnercial sources. Damaged disks are often the end result of a malicious virus.

10. Each directory bars a limit of 1126 file (identi). Note the number of limit at the top of your directory window while at the Desktop. If you save a lot of small files, you can easily surgass the 112-66e limit, especially on a double-added disk. Proy with one a program that gives a valie error message when you try save the 1136h files to a particular directory. GA directory can other be a folder or the "vost directory" when

you're not inside a folder.) Create some folders to store similar items and you'll solve the problem. Each folder can also contain 112 items so there's really no limit to the number of files on a disk if you're aware of this situation.

#### And There You Have It

I hope the above guidelines help you manage your files more efficiently. I especially hope that they save you from the devastuting "aftershock" of losing a valuable file or disk

Mark Taylor is a salesman for Software 1st of Santa Rosa and is cofounder of ST ACE of Sonoma County, a very active Atari User Group.

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#### BY MARTA DEIKE, START JUNIOR EDITOR

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Now available from Neth Light Biocks is the comprehensive desktop-publishing minual for arisis, **Basic Desktop Design A Lipout** The book includes explanations of bina: Dirp francples and apply subge domensurations of procedures. A variety of projects — from the simple to the complex — are analyzed in terms of design profects, to teach you how to sanicipate and solve peckid problems you'll be likely to face in your work. Basic Desktop Design R Lipoux, 19/27 25 North Light Dooks 19/27 Dana wee. Concinant, UH 43/207, 51/V431-2227.

A first for the ST: Maxwell's Silhauettes autlining program.





## Maxwell Silbouettes

Maxwell Computer Products has released the fint cultiming program for the ST, Silhouster. Silhouster produces vector graphic files in the form of GEM methiles from Degus or 100 craster files. Converting mater files to vector graphic files lets Lanotype machines produce the image at high resolution and gives you more fileschildly in modifying images—a prosuing accessory for desktorp publishing projects. Silhouster, 549:55 Maxwell CPU, 5007 W. Baseline. Lafarvice. CO8005. SW0566-7754

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