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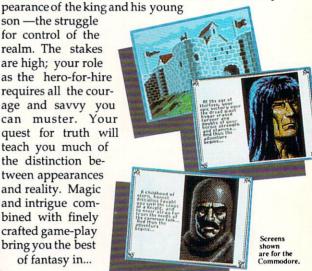


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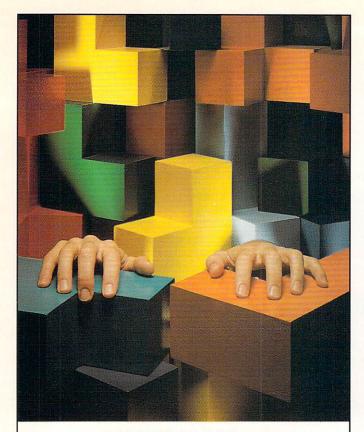
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| FEATURES   |     |  | M2DEBUG (Avant-G<br>A nifty symbolic debu   |
|--|-----|--|---|
| Top of the Midway  | 22  |  | the Benchmark: Mode   |
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| GHOSTS OF GAMES FUTURE By<br>Steve Peterson  | 34  |  | <b>I.C.E.</b> (King Publish Create customized mutors and add them to  |
| in the charts next season and in years<br>to come? We've done some educated<br>crystal-ball gazing to give you an idea<br>of what the future holds in store.   |     |  | <b>FINDEX V</b> (E. Arthu<br>A flexible, free-form a<br>base management.  |
| THE GREAT AMIGAWORLD GAMES BUYER'S GUIDE Compiled by   |     |  | GA  |
| Jan Jackson  | 39  | Amiga entertainment software has grown so fast that it is, literally, almost impossible to keep track  | THE GAME PRESE B.G. Hunter  |
| ARTICLES   |     | of it. To help all Amiga game enthusiasts,   | Game reviews follow l   |
| PICK A PATH By Louis R. Wallace<br>Upgrading your Amiga 500's memory is<br>not just a matter of deciding how much<br>extra memory you want. Your method of<br>memory expansion is a crucial considera- | 66  | AmigaWorld has added a separate Games Buyer's Guide (covering more than 500 titles) to our annual November Games Special—just in time for the Holiday shopping season! | SIMCITY (Praxis / B<br>POPULOUS (Electron<br>Two of the more talked<br>games square off in a<br>feel is the ultimate game |
| tion as well.  |     | NOTEPAD 10   | WAR IN MIDDLE I   |
| COLUMNS  |     | The Amiga shows up at a gala laser/music show at Sea World in Texas and in a Shake-spearian production in California.  | Travel with the Hobb<br>journey to Mount Do   |
| CHIEF CONCERNS By Doug Barney We're not sure about this new guy here at the helm of AmigaWorld, but he sure  | . 6 | WHAT'S NEW?  | KIKUGI (Image Tech<br>A battle of wits, not sv  |
| likes to shoot from the hip when it comes<br>to making sure Commodore keeps up its<br>efforts to support the Amiga community.  |     | HORS D'OEUVRES   | SPEEDBALL (Spotlig<br>Fast action in a 21st-co  |
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| DEPARTMENTS  |     | ONLINE! PLATINUM (Micro-Systems  | one of the more that<br>Prizes. You might ju  |
| REPARTEE   | . 8 | A versatile new version of the well-known communications package.  | your name on page   |

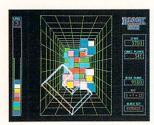
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## CHIEF CONCERNS

A call to action.

IT HAS BECOME a familiar and all too disturbing adage: "Commodore has the best engineering and the worst marketing." Everybody, it seems, knows what Commodore has done wrong, and not suprisingly, most of these same folks have advice for Commodore.

Everybody is right. Commodore needs help, and it ain't their engineering department that's ailing. The company has utterly failed to give the best PC in the business adequate visibility. The one million Amiga owners were resourceful enough to find out about the machine on their own, and made the wise choice to buy one.

The noises that are starting to come from Commodore are encouraging. The firm is committed to increasing the Amiga's visibility, working with third parties to make sure important half-finished products make it to market, and is working on some exciting new technologies that will keep the Amiga clearly ahead of the PC pack.

The firm also has a new, highly motivated crew with impressive resumes. These guys have been hard at work. They are planning an expanded and more consistent ad campaign, are insuring that dealers are competent, and are committed to gaining the ever-precious customer mindshare.

I think it will work. I wouldn't have left the safe confines of the general PC market if I didn't believe that Commodore has a real shot at the big time.

The time is now for Commodore to make its move. The IBM and Apple PR machines are cranked up, and are attacking areas that the Amiga dominates, such as multimedia, desktop video, and animation. Unfortunately, the naive computer press is giving the world the impression that these firms are inventing these categories, and that



these are "future" technologies.

Hogwash! We all know that the Amiga has been excelling in these areas for years. It is up to Commodore to let the rest of the world in on this secret. If it doesn't, then customers will buy Macintoshes for advanced applications such as video. Then they'll watch helplessly as the machine sucks up all their cash reserves, only to bog down while processing the simplest of images.

Here's what Commodore needs to do more of. Fortunately, it is already starting to crackle. President Harry Copperman recently paid personal visits to the major trade publications that are now discovering these new application areas. You may be wise enough not to read these magazines, but about a zillion potential customers do.

He also went armed with a strategy. He brought a long list of customers (maybe even you!) who can demonstrate that the Amiga is the best machine ever made. Loaner machines are being sent out so these newshounds can see for themselves how pathetic other machines are when compared to the Amiga.

Commodore also needs to respond every time the press ignores the Amiga when writing about applications that originated on the Amiga. It makes me sick to see Apple get the credit for inventing multimedia. It is even more sickening to hear some PC review lunkhead froth at the mouth over a black-and-white animation package for the Mac.

We reached the height of ridiculousness when the NEXT machine from Steve Jobs was introduced. Here was an example of hero worship at its worst. Jobs spends years developing a machine that is a blatant rip-off of the Amiga, and proceeds to get more press coverage than Gorbachev.

The only difference between a NEXT machine and an Amiga is that the Amiga has color, software applications, users, and actually works. The NEXT machine, meanwhile, costs five to ten times as much, has an installed base of about 25, and, let's face it, really isn't finished yet.

The most painful instances, though, involve more generic technologies like multitasking. IBM and Microsoft grabbed countless gobs of headlines with OS/2. After years of hype, OS/2 proceeded to fall flat on its multitasking face. Where was the Amiga during all this? Patiently and quietly multitasking away.

Commodore also has to convince the major PC software vendors that one million machines equals opportunity. Some of these jokers are writing for true niche machines like Sun workstations (no more than 200,000 installed, I'd bet) and the NEXT machine (you could fit its installed base in a Volkswagen Beetle). Participation by major vendors would mean mainstream software for the Amiga, and a shot at the huge general-purpose business market that continues to suffer under the yoke of IBM PC tyranny.

Come on, Commodore. The Amiga deserves better. Fortunately, we think with the new crew, it is starting to get it! ■

-Doug Barney

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### REPARTEE

Comments, complaints, and concerns

from AmigaWorld readers.

#### DISKMASTER DEVOTEE

I WAS SHOCKED and disappointed to see Bill Catchings' and Mark Van Name's haphazard and misleading review of DiskMaster, one of the best Amiga disk-utility programs available, in your September '89 issue [info.phile, p. 56].

The authors state that Disk-Master cannot display a file in hex. This is not true. By clicking the right mouse button on the READ command, the command is switched to HEXREAD, which displays a file in hex with ASCII interpretation at the right. Both the regular file reader and hex file-reader functions provide convenient, smooth mouse scrolling as well as scrolling with the up and down keys.

While it is true that Disk-Master does accept the convenient "\*" wild card for pattern matching (as ARP does), it *also* accepts the strange AmigaDOS "?" and "#?" pattern definitions, too.

The authors also state that DiskMaster is less robust than CLImate, because they found themselves "losing control" of DiskMaster while the program hung. I will admit that I have seen this bug, but as a very heavy user of DiskMaster, I have only seen this problem about three or four times in almost a year of use. I don't consider it a serious problem. I think it is misleading to

characterize DiskMaster as a buggy, unreliable program.

I admit that the documentation could stand some improvement. No doubt this is why the authors missed the HEXREAD function and did not realize that the program can use wild cards.

DiskMaster provides a great deal of easy user programmability of its many features, functions, and device gadgets. It has greater display capacity with real-time scroll gadgets in both vertical and horizontal directions than any other similar program I've seen. It gives you a one-stop source for almost any disk and file operations imaginable.

> René LeBlanc Scottsdale, AZ

We have heard from a number of users who like DiskMaster. We also agree that it has a lot of complex features. The problem with DiskMaster, as René LeBlanc concedes, is that the six-page manual does not adequately describe these features.

We also view bugs that cause utility programs to hang as very serious. These two factors make DiskMaster unsuitable for the average user.

—Bill Catchings and Mark Van Name Contributing Editors

#### **AMIGA GRAPHS**

IN THE REPARTEE section of your August '89 issue, Dr. Fred Klein notes the lack of

scientific plotting and graphics packages for the Amiga ["Scientific Graphics, p. 8]. I would like to point out that it is not simply a null field.

MaxiPlan Plus, an Amiga spreadsheet, can produce graphs. Graphics files created by MaxiPlan conform to the Amiga's Interchangeable File Format (IFF) protocol, and hence are portable to all conforming programs, such as DeluxePaint, excellence!, or PageStream.

MaxiPlan Plus has much greater graphing capability than the Macintosh program Excel (v. 1.5). Yet, I know of no Amiga equivalent to the Macintosh program Cricket Graph. Hence, I would like to second Dr. Klein's call for more scientific word processing, plotting, and data-analysis software for the Amiga. After all, it is the capability of the Amiga as a function of cost that makes the machine attractive for scientific work.

Frank Murray, Ph.D.
Claremont, CA

#### THE MISSING LINK

YOUR ARTICLE ON ARexx ["ARexx: The Missing Link," Aug. '89, p. 30] was right on target. The Amiga is perfectly suited to hypermedia, and if Commodore can act quickly to implement ARexx in the system software, I think that the Amiga will enjoy a new level of

recognition by professional non-Amiga users.

Robert Anderson Hamilton, Ontario Canada

#### KEYBOARD ENTHUSIAST

I APPRECIATE THE benefits of having both a Command Line and Graphic User Interface. I would like to make a recommendation that I believe would make Amiga applications easier to use: allow keyboard selection of options in requester boxes. For applications that rely on the keyboard, this would prevent having to take your hand off the keyboard to select an option with the mouse.

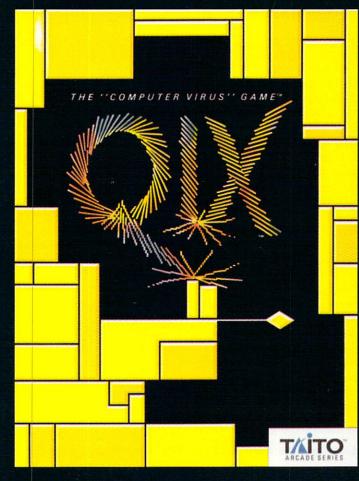
One example is IBM's Common User Access (CUA) method, which is their interface guideline for the Systems Application Architecture (SAA). It is very similar to the Apple Macintosh interface; operations can be performed with either the mouse or the keyboard.

I believe that giving users the alternative of keyboard selection would improve the Amiga interface.

W. James Roscoe Regina, Saskatchewan Canada

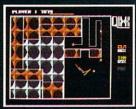
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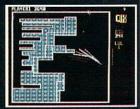


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## NOTEPAD

Compiled by Linda Barrett



Even lasers need Amiga control.

EVERY EVENING AT dusk, visitors to Sea World of Texas file into the park's circular amphitheater. Here, where just hours earlier guests thrilled to physical feats of water skiers in the lake below, they now prepare to witness the technical power of the Amiga. Most, however, never even realize the multitaskers are in charge. They have come to enjoy a laser light show and musical performance.

From the island in the center of the lake, a pair of two-meg Amiga 500s direct the production. The show begins when audio tape, embedded with

#### Lights in Action

SMPTE time code (a framenumbering system), begins to roll. A SMPTE-to-MIDI converter reads the code into a MIDI interface, which sends it on to the Amiga. The Amiga passes the signal to a digital-toanalog converter, and on to two specialized pieces of hardware developed by Laser Entertainment Technologies' Randy Johnson: a scan amplifier and a scan head. The scan head houses a group of mirrors and a tiny control motor called a galvanometer. When a laser beam is directed into the scan head by a state-of-the-art 32-watt argon Coherent Innova laser, it bounces from mirror to mirror and then out into space.

Software running on the Amiga triggers the galvanometer to adjust the mirrors' positions and thus change the direction of the beam. Programmed with tables of data representing the x and y positions on a grid, the software puts together sequences of positions (depending on time-code specifications) to form shapes. The Amiga outputs these sequences in rapid succession, triggering the galvanometers to line up each mirror with any x, y positions specified by the computer. Tracing shapes faster than the eye can detect, the beam projects images onto the clouds. The laser can draw letters and fairly complex pictures-even animations.

Software developer Adam Harris said that he and partner Randy chose the Amiga for this project for a number of reasons. They wanted their system to be easy to use, and felt that the Amiga's environment was ideal. Fast processing capabilities, color, and an easily accessible bus were other drawing points. The Mac, says Adam, offers nothing more than the Amiga, and costs twice as much.

Although the Sea World system is set up with SMPTE tape to allow for an automated presentation, the MIDI interface makes it possible for a musician to control the laser simply by playing a synthesizer. Nicholas MacConnell, president of MindLinks in Del Mar, California, which distributes Laser Entertainment's system, is excited about its possibilities. "The Amiga is at the head of a revolution," he said, "a breakthrough in the performing arts." -BGT

#### Amiga Upon Avon

THE TEMPEST OPENED at Sonoma State University with howling winds, thrashing waves, and an impressive cast. Unlike Shakespeare's original production, Associate Professor of Theater Arts Judy Navas' starred an Amiga 1000, an A500, two video cameras, three eight-foot by ten-foot rear projection monitors, Mandala (Very Vivid), Invision (Elan Design), the LIVE! digitizer, a Casio synthesizer, in addition to live actors.

The production was a group effort. Judy prepared most of the special effects herself on her Amiga. Consultant Rob Terry created the opening storm sequence using Invision, LIVE!, and clips from B-grade seafaring movies.

In the play's eight performances, actors triggered music and images via Mandala to enhance their lines. "This technology has genuine magic," Navas says. "It's a revolution that's going to change the way we look at performance." Mandala is an unsupported, buggy, but extraordinary software and hardware

interface for multimedia, interactive performance art. Mandala allows an onstage performer, while in a video camera's field, to trigger animations, sound effects, and music, "paint" on the screen, or even be imposed themselves into other live, taped, or computer-generated environments.

Unfortunately for other performers, Very Vivid has taken Mandala off the market. "This is a major loss to the Amiga," says Judy. "I've always been frustrated by the clunkiness of the theater in presenting the ethereal. With this technology, for the first time on stage, you can actually see the process, in action, in the moment. For the first time in my 20 years of college productions, my imagination could find concrete images that others could see."

Her next Amiga/Mandala production will be an interactive-surrealist performance combining T.S. Eliot's "The Love Song of J. Alfred Prufrock" with photographs of the French painter, Magritte.  $-Sue\ Albert$ 

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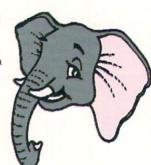
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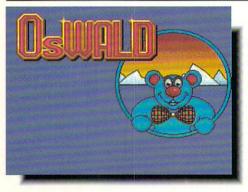




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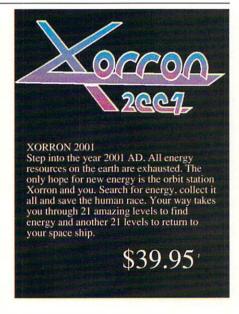
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## REVIEWS

#### **DIGI-PAINT 3**

Number three—the second is first rate.

#### By Roger Goode

IT'S TIME TO tune up your imagination and set your creativity free, kids, because Digi-Paint 3 is here, and it brings such power and ease to Hold-And-Modify (HAM) painting that it will quickly become a trusted friend.

NewTek's original Digi-Paint was the first program to break the color barrier, allowing simultaneous use of all of the 4096 colors available to the Amiga. It also introduced us to some of the now-familiar headaches associated with HAM painting: color fringing, huge demands on memory, and long waits for some operations. Since that time, a number of competing products have been introduced, each making more impressive claims than the last. Now, those competitors may want to head back to the drawing board, because Digi-Paint 3 is hard to beat.

No, there never was a Digi-Paint 2: the 3 in Digi-Paint 3 refers to the number of man-years that went into developing the program. From the look of things, it was time well spent. With the addition of new tools, modifications to the old tools, and a new interface—designed by Amiga artist Jim Sachs—that makes the program a joy to use, Digi-Paint 3 is an entirely different package. (NewTek offers

a \$29.95 upgrade deal to Digi-Paint users, and a \$49.95 trade to owners of other paint programs.)

#### IT'S IN THERE

Written entirely in assembly code, Digi-Paint 3 is compact, and its support of 60820 processors makes it the fastest HAM program yet. New features include 3-D texture mapping, improved colorizing, super bitmaps, overscan and ARexx support, anti-aliased fonts, and compatibility with Haitex's stereo-vision gogs, X-Specs 3D.

In the package are two non-copy-protected disks: the program disk plus another containing some tutorial art and an image-processing utility called Transfer 24 that Digi-View (NewTek) users will recognize. Transfer 24 is great for making overall changes (such as contrast, brightness, and saturation adjustment), and for making color separations, changing file formats, and resizing pictures.

The expanded 127-page manual is filled with useful tutorials, tips and techniques, and a complete set of references and appendicies. It is broken down to nine fully illustrated chapters that detail the use of all tools and menus, and provides useful discussions on everything from how HAM works to programming compatibility with ARexx. While the program requires just 512K to run, at least one megabyte of RAM is preferable.

#### IN ONE BOX AND OUT THE OTHER

The default toolbox occupies the lower quarter of the working screen. Along with its strip of 16 basic (register) colors, a current color bar, and an area for defining color ranges along the top, this toolbox provides basic tools for most of the usual paint operations: freehand draw, straight lines, polygons, rectangles, circles, and ellipses. There's a fill button

that works with each of these, and a full range of brush shapes with a flexible, easy-to-use sizing option. Beneath these tools are buttons for the custom-brush grabbing tool, a magnifying option for detailed work, and the indispensable undo and repeat options.

The nicest features on the toolbox are buttons that call up the other three toolboxes: the Palette, Text Rendering, and Controls boxes. Each of these toolboxes occupies the same portion of the screen that the default box does, and each has gadgets that allow you to toggle between them quickly and easily. This is a particularly nice design feature; it keeps your work space uncluttered and provides a logical and intuitive method for dealing with the complexities of HAM painting. All of the boxes contain undo and repeat buttons and the color strip, so you need not return to the default toolbox every time you use them.

Digi-Paint 3's Palette box is the nicest I have seen on a HAM program. While retaining the 16-color register strip at the top, it expands to display a full-value range of each color directly below the register. A standard RGB slider control to the immediate right, with a numeric value readout of the currently selected color, makes precise color adjustment a breeze. To the right of that are the 4096 color-selection panels from the original Digi-Paint that change dynamically as you move around in them, allowing you to quickly choose a color for fine tuning in the RGB sliders. Finally, there is a Pick button that lets you choose a color directly from the picture screen so you do not have to waste time trying to duplicate colors you have used.

The Text Rendering toolbox lets you add titles and captions to your graphics.

Just type letters into the bar on the right side of the toolbox, choose a font and point size from the menu, pick a color, and click on any of three buttons for Bold, Italic or Underlined styles. When you are all set, click the Text to Brush icon and watch the string (or as much as will fit) render at the top of the screen and then attach itself to your brush. Then, simply place the text brush where you like it and click. Two degrees of smoothing help give your text a professional look, and best of all, once the text is attached to your brush it can be enhanced and modified with any paint mode and with the options in the controls toolbox.

#### TAKE CONTROL

Controls is the largest of the four toolboxes. Most of its display is devoted to two major functions, Transparency and Texture Mapping, both of which are wonderfully conceived and surprisingly easy to use. The Transparency control is centered around a large boxed display of a ball, representing the shape that will be drawn to the screen. Above this box are four icons (labeled Point, Vertical. Horizontal, and No Hotspot) representing the types of hotspots you can apply to a paint operation. Clicking on one of these icons causes a hotspot locator to appear on top of the red ball. (If you choose No Hotspot, the ball graphic is blanked out to represent an overall tint.) You can move the locator around in the box to determine where the center of transparency or opacity will spread from. To determine the degree of transparency at the designated hotspot and at the edges of your drawn shape, you adjust the two sets of sliders on either side of



Get on the ball in the Controls toolbox to determine the transparency of objects in your picture.

the ball. The sliders offer calibrated degrees of transparency for fine tuning, and both are flanked by three icons that deliver 100%, 50%, and 0% transparency. These icons, well-designed graphics that show the ball with various degrees of transparency at either the center or the edges, give the interface an intuitive feel. Once you have set your transparency parameters, just paint to the screen. If you don't like the effect, click undo, make some adjustments, and click the repeat button to try again. This tremendous flexibility is found throughout the program.

#### A BRUSH WITH EFFECTS

The Warping and Texture Mapping control is a two-in-one tool. To use it, you must first grab a custom brush from the screen, copy it to the brush buffer, and select TxMap from the Modes menu. This sequence enables Warping. The Warping control is set up similar to the Transparency control, with a boxed graphic of a grid-mapped ball, a slider on the left to set the degree of warp, and three icons on top for choosing vertical, horizontal, or point warping. Selecting an icon places a bar or point, which you can move to determine where the warping will be the most pronounced, on the grid ball display. The slider lets you set the amount of warping to the brush incrementally from none to extreme, and each of the three buttons alongside it graphically depict how much warping they will induce. This well-designed interface allows for the most intuitive use of an option that could otherwise be confusing.

Once you have set the Warping contols, you can move on to the fun part. Texture Mapping works with any custom brush, including text brushes, and with all shape tools, filled and unfilled. Choose a shape tool-freehand, circle, rectangle, or any other-and draw on the screen at any size. In a few moments your texture-mapped figure is rendered to the screen, complete with as much or as little warping effect as you chose. For powerful perspective effects, draw a simple polygon, wide at one end and narrow at the other, and your brush will seem to fall back into the third dimension. To ensure that the final effect is polished and convincing, there are two buttons to control smoothing. I tested these controls on a couple of drastically enlarged brushes, and was amazed at the amount of detail retained and the minimum of jagged transitions. ►

Along with these two major effects-producing functions, the Controls toolbox includes buttons for setting the type of dithering used. Random dithering, the default, produces the most natural look; Pattern gives a more ordered appearance, and turning the dithering off produces a banded look. Using the Random setting adds more colors to the screen by mixing two colors to simulate a third. According to NewTek, Digi-Paint 3 uses 30 bits per pixel accuracy (over 1 billion colors) to calculate dither patterns.

The Controls box also has a Tile function that works with TxMap mode to produce a repetitive pattern using the current custom brush. The number of tiles can be set from one to nine both vertically and horizontally.

#### IN THE MODE

The Modes menu, a significant source of the program's vast power and flexibility, has been cleaned up and steamlined since Digi-Paint's first incarnation. Gone are some of the obscure entries like ADD and SUBTRACT, as well as the familiar TINT, BLEND, and SHADING. They have been replaced by or revamped into the more intuitive NORMAL, RANGE, LIGHTEN, DARKEN, COLORIZE, RUBTHRU, BLUR, and TxMAP, all of which are pretty self-explanatory and perform as expected. I particularly like COLORIZE, which takes the place of ADD and TINT. Used in conjunction with the Transparency function, COLORIZE allows an unparalleled degree of control for tinting and overlaying color washes. The range of tint colors has become more natural, as well. AND, OR, and XOR are still on the Mode menu for producing a number of interesting, if sometimes unpredictable, false color effects.

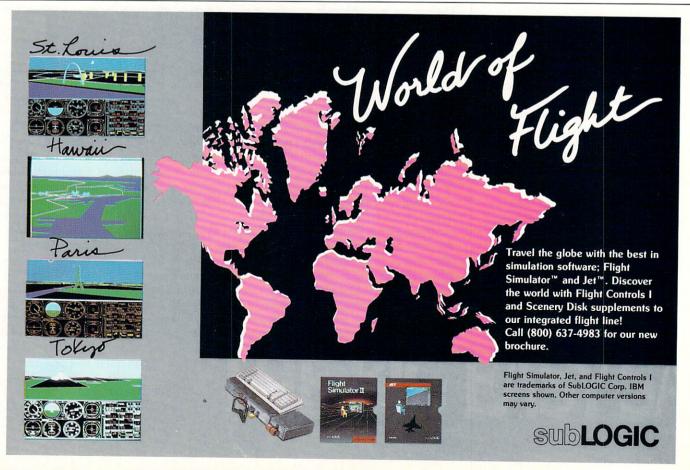
All of the Modes menu functions are capable of interacting with the full array of options in the different toolboxes. In fact, most everything in this program interacts with everything else for seemingly endless combinations (and combinations of combinations).

#### FULL SWING

I spent many, many hours testing all the options listed in the manual as well as many that are undocumented. Never did I find the program wanting. I designed

a few exacting projects to put the program through its paces, and for the most part, the results surpassed my expectations. Digi-Paint 3 is very fast, and very easy to learn and understand. The manual is a great help, but the tools and controls are so well thought out and intuitive that after a while, I hardly needed it. The sheer number of settings available is a potential source of confusion; a few times I came up with surprising effects when I had forgotton to turn off an option or two. That is, until I discovered that pressing the Tab key restores Digi-Paint 3's default settings. This clearing mechanism is a valuable inclusion, because it is easy to get tangled up in a creative frenzy. There is no default palette setting, however, which would be equally helpful, and a flood-fill tool is conspicuously absent.

The one thing I look for in any paint program is down-to-earth practicality. I want something that lets me realize the ideas and images that bubble up in my head, and develop without having to refer to the manual continually, and without having to use lots of complicated procedures. Digi-Paint 3 is that kind of

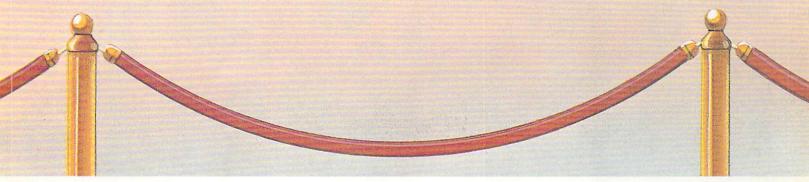


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#### MUSIC-X

It's all here, at last.

#### By Steve Ouinzi

AFTER A PAINFULLY long period of pre-release advertisement, Music-X has finally hit the stands. If you've been paying attention, you might already know that Music-X has two main applications. It is an open-ended MIDI sequencer

with features like synchronization to SMPTE and MIDI Time Code, graphic and text editing of MIDI events, and IFF sample support. Also, it is a self-configuring patch librarian that can store sounds from MIDI synthesizers.

The package comes with three disks: the program disk, one with utilities, and another filled with examples. Music-X is not copy protected, and although it requires just 512K to run, one megabyte or more is strongly recommended. If you intend to use Music-X with MIDI devices, then you will also need a MIDI interface and some kind of controller keyboard and sound source.

#### PAGING DR. MUSIC

Music-X is divided into eight "pages," or screens. The first of these, the Sequencer page, appears on boot up. At the top left of this screen is the Transport window, which contains Play, Record, Pause, Fast Forward, and Rewind buttons to emulate the functions of a tape recorder. It also has auto-locate buttons that cue instantly to the beginning, end, or to any one of four predetermined points of a sequence.

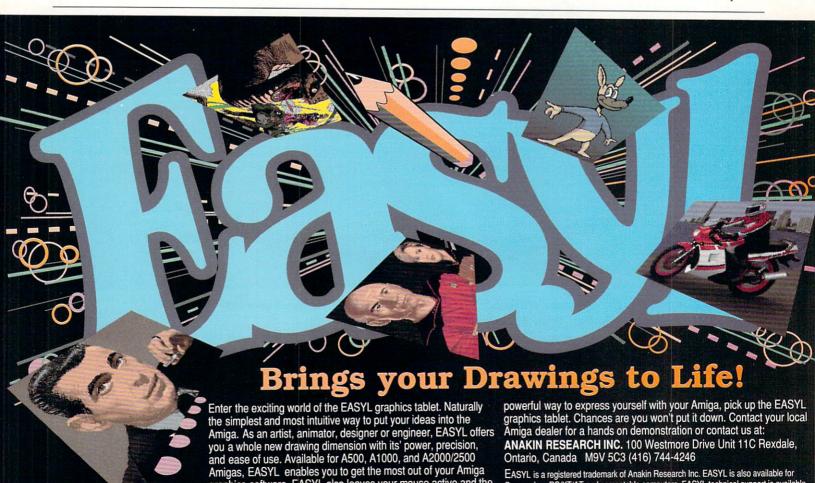
Below the Transport window is the Clock window with its two displays: a musical counter, which expresses elapsed time in terms of measures, beats, and clock pulses (192 per quarter note), and a real-time counter, which reads out hours, minutes, seconds, and frames. Below this, the Tempo Display window indicates the current tempo and the number of MIDI events that have been recorded. Just to the right is the Time Signature window, which shows you the current meter.

At the bottom of the screen is the Sequence List, a database display that accommodates up to 250 entries. For each sequence listed, there are nine fields of data: a reference number, the amount of RAM it requires, its length in measures, the MIDI channels used, CST (an indication of special Music-X events within the sequence), a Time field that shows whether the sequence was recorded in relative (measures, beats, and clocks) or absolute time (hours, minutes, seconds, and frames), the sequence name, its out-

R E Continued on p. 100

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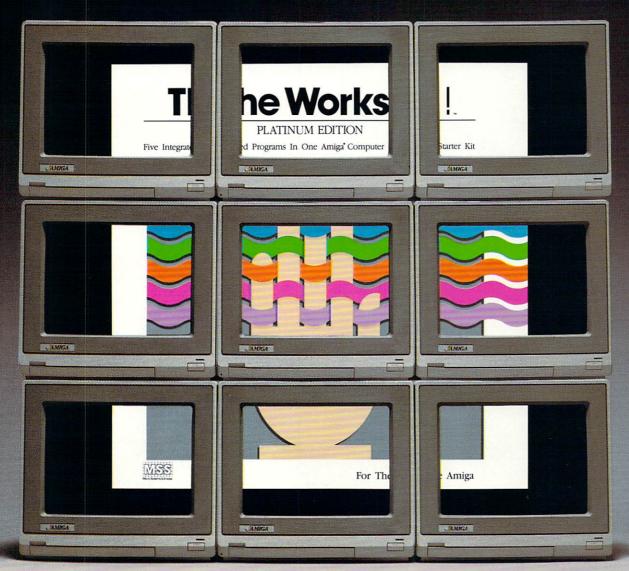
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# Top of the Midway

The carnival's in town,

and we'll show you which games

to spend your allowance on.

AT YOUR FILL of cotton candy, fried dough, and candied apples, then follow along on a tour of the Amiga Midway's 20 best games. You'll sample shooting galleries, houses of horror, tests of strength, space-age rides, mazes within labyrinths, even an intellectual challenge or two. As the barkers say, "You don't play, you can't win. Get a prize every time!" Unlike the old duck shoot, ring toss, darts, knock-over-the-milk-bottles, and dime-pitch games, which rewarded you with stuffed animals in day-glow colors, Amiga games offer you extra lives, magic powers, and control of the universe.

Our AmigaWorld Players won (and lost) plenty during their many testing sessions. Control of the galaxy changed hands more times than the manager's office of the Yankees, and enough aliens to populate an entire solar system were destroyed, all in the name of research. Testers rated each for quality of presentation (Does the game have good graphics and sound?), durability (Does it hold its appeal for a long time?), and, most importantly, entertainment value (Is the game fun?). Only games released since last year's top 40 ranking (held in July of '88 and appearing on p. 29 in the November '88 issue) were eligible. Along with the overall rankings, we picked a winner in each class (see the sidebar "Before You Play" for an explanation of the categories) and the "Best of Show" game of the year.

While we guide you through only the top 20 games, the Amiga midway offers many more attractions. For a complete map, check out our buyer's guide to games and manufacturers (p. 39).▶

By Linda Barrett and the *AmigaWorld* Players: Bill Catchings, B.G. Hunter, Sheldon Leemon, Dave McClellan, Peter Olafson, Patrick Quaid, Mark Van Name, Lou Wallace, and Dodson Yaple.



## 20 Where in the World Is Carmen Sandiego?

#### Graphics Adventure Broderbund Software \$44.95

Log onto the Acme Detective Agency's Crime Computer to find out which of the world's priceless treasures Carmen's band of theives have made off with most recently. Beginning at the scene of the crime-one of 30 cities around the globe-you gather clues from the locals. Unraveling the clues with the aid of The World Almanac (supplied with the program) leads you on an educational chase. Arrest the thug within the alloted time, and you win a promotion (there are five detective levels) plus a tougher assignment. Stunning graphics depicting famous landmarks greet you as you land in each city.



#### Action/Strategy Medalist International \$44.95

Prepare for war. In Carrier Command's 3-D world, you command an aircraft carrier, its four fighter planes (Mantas), and its four amphibious drones (Walruses) in an attempt to wrest control of an archipelago's 60 islands from an even faster computer-controlled carrier with tendencies just as aggressive. You'll need to establish a resource island on which to

construct mines and oil rigs, a factory island to transform the raw materials into weapons and fuel, stockpile islands to store the products, and, of course, a ring of defense islands to protect the more vulnerable ones. When you run out of neutral and friendly islands to colonize, launch a few Walruses and Mantas to attack a hostile island.

"You can ambush the enemy carrier if you wait just out of range of an island you think the computer will attack. Launch your fully-armed Mantas when you receive word the island is under attack and head for the carrier at full speed. With luck and good timing, you will catch the carrier without its own Mantas nearby. Act fast though—it moves as fast as the planes do."—Peter Olafson



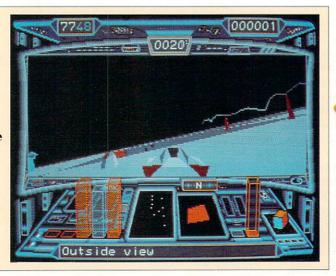
#### Arcade Psygnosis \$29.95

With over 60 varieties of attackers, six levels of play, and two degrees of difficulty, Menace makes you appreciate a rapid-fire joystick. If you destroy an entire wave of nasties, a bonus cube appears. You can take it for its point value, or transform it into an icon by shooting it. Grab the icon and you gain a temporary advantage (lasers, cannons, more speed, a force field, or repaired sheilds). You'll need the extra help when you go up against the guardian at the end of each horizontally-scrolling level. The 64color graphics combined with digital speech, sound effects, and background music set the scene.



Be a space-age

fly-boy.





#### Best Flight Simulator Spectrum Holobyte \$49.95

Without joining the military, Falcon is about as close as you'll get to the cockpit of an F-16 Fighting Falcon jet fighter. The game's graphics are excellent and the physics behind the flying is realistic. Be prepared for some heavy manual reading, however, before you take off on air-to-air and air-to-ground missions. Falcon is very detailed. The game eases you into international warfare by giving you a choice of five ranks from First Lieutenant (no crashes or enemy fire) to Colonel (you're in the Air Force now) and 12 missions. Choose your weapons, then take to the air for the program's forte-dogfights. You can even fly against another player via modem on a one-meg system.



#### Action/Strategy Medalist International \$44.95

A cross between a flight simulator and an arcade-style shootout, Starglider II never lets up. Through space dogfights and careful scavenging you must accumulate enough skill and equipment to rout the dreaded Egrons from the Solice System. You can destroy your foes with gas plasma lasers, projected time-warp cuboids, fire-and-flee missiles, bouncing bombs, and a neutron bomb. Need a short cut? Just slip through the tunnel networks. While you're there, stop in at a service depot; the technicians can be a big help. The surprisingly effective plot, 3-D graphics, fast screen-refresh rate, and great sound effects will keep you riveted to the screen.

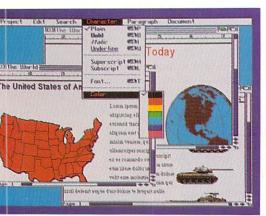
#### Zak McKracken and The Alien Mindbenders

Graphic Adventure Lucasfilm \$44.95

Poor Zak the tabloid reporter, he has to cover a two-headed squirrel instead of a ►

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| Wrap Text Around Pictures                      | <b>V</b> |             | <b>✓</b>   |            |          |
| WYSIWYG Display                                | <b>V</b> | 1           | sometimes  | 1          | 1        |
| Spelling Checker                               | <b>√</b> | V.          | <b>V</b> , | 1          | V        |
| Mail Merge                                     | V        | <b>V</b>    | V          | V          | V        |
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| Spell Check as You Type                        | V        | 1           |            |            |          |
| Simultaneous Text and Graphics Printing        | 1        |             | <b>✓</b>   |            |          |
| Automatically Adjust to Printer's Capabilities | <b>√</b> | Mark Argent |            |            |          |
| PostScript Support                             | optional | <b>✓</b>    |            |            |          |
| Paragraph Sorting                              | <b>√</b> |             |            |            |          |
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real story. When the alien mindbenders infiltrate the ranks of the telephone company and start infecting the population with stupidity, however, Zak gets his chance. You control Zak and three women on their around-the-world (and Mars) quest to stop the aliens. Difficult-but-solvable puzzles and an understated sense of humor run through the game's huge and interactive world. Unlike Zak, you don't need to type anything. To control the game, click the action icons and the objects you wish to act on.

"Liberal use of the What Is command upon entering a new scene will get you a long way. If you're getting no place, well, there's no place like home." — Peter Olafson



Arcade Psygnosis \$49.95

Simultaneous two-player action, four almost-endless levels, and great graphics make this space shoot-'em-up a standout. Check your ethics at the door, though. In Bloody Money, you can turn around, shoot the aliens in the back, and collect money for making a kill. You can buy more powerful weapons from the equipment shops or save your booty and buy a new ship or rocket pack when you complete the level.

#### Battle Chess

Strategy Interplay (distributed by Mediagenic) \$49.95

While still a game for intellectuals, chess goes into the trenches with Battle Chess, in which 3-D animated pieces duke it out for control of contested squares. Each piece moves and fights with a distinctive flair. Queens saunter and throw lightning bolts, knights march and clash with swords. For more traditional players the game offers a 2-D mode, an opening library with 30,000 moves, an option to retrack moves, and playing hints. You

can play the computer or a friend on any of ten levels, and even over a modem.

"Try starting off with P-K4. After that, read a chess book."—Dodson Yaple



Action/Strategy Cinemaware \$49.95

As a rocket-powered, leather-clad hero, you fly around the world fighting relentless hordes of Nazis and gathering rocket parts. The Nazis are mining lunarium (which fuels their spaceships and bombs, plus your rocketpack) from the moon; you must steal enough rocket parts to build a spaceship that you can fly to the moon for the Big Showdown. Besides cunning, your only assests are your rocketpack, radium pistol, wrist monitor, and secret decoder wheel. While the quest for rocket parts requires strategic planning, the game is peppered with arcade sequences to keep your joystick jumping. "When you go up against planes, try to guess where they will end up. Lay down fire along that line and get out of the way before the planes even fire. Try to get one or two each pass." - Patrick Quaid

"Use your agents to search for rocket parts and Nazi bases for a turn or two, then set them to organizing resistance. The South American base eventually becomes too tough to handle, but you'll always be able to load up on lunarium at the base in Africa."

—Dodson Yaple



Strategy Strategic Studies Group (distributed by Electronic Arts) \$39.95

Explore, conquer, colonize, build. Explore, conquer, colonize, build, and soon the galaxy will be yours in Reach for the Stars. Complicating matters are three computer- or human-controlled opponents and various catastrophies (novas, natural disasters, viruses, and solar debris). Not only must you plan your exploration and attack strategies, you must manage the resource points your planets produce; should you spend them on building ships and defenses now or on increasing navigational and industrial technology to build more powerful, further-ranging ships later?

"Don't try to be strong everywhere. Keep small forces around, plus a couple large counterstrike groups. Be offensive, and try to get your opponents on their heels."

-Patrick Quaid



Arcade Spectrum Holobyte \$34.95

Want to stretch a five-minute break to last an entire evening? Play Tetris. As various configurations of blocks fall from the top of a pit, you must rotate and position them to interlock with a growing stack below. When you complete a solid row, it collapses on itself to give you ▶



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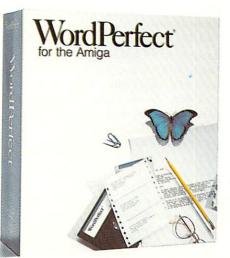
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#### **Before You Play**

The type of game that leaves one player grinning with glee may leave another foaming in frustration. To make it easier for you to find the games you like and avoid those you know you'll never win (Ever see anyone land a dime completely in one of those little red circles?), we've classified the games in the AmigaWorld Midway into the following categories:

#### **Arcade**

Limber up your trigger finger. In these games you use a joystick or mouse to shoot, catch, avoid, or deflect objects. Although many arcade games require strategic planning, their emphasis is on dexterity and speed.

#### Action/Strategy

Trying to appeal to action lovers as well as thinkers, this category contains strategy games that have arcade or arcade-like elements. In the best examples, the arcade sequences are seamlessly integrated into the play of the game. In poorly-designed games, the arcade aspects seem tacked on as an afterthought.

#### **Sports**

These games simulate the play of a particular sport such as hockey, basketball, or golf. Although some sports games stress arcade skills while others stress strategy, they all let you act out your athletic fantasies.

#### **Text Adventures**

These games put you in imaginary worlds where you must use your wits to explore and survive. The worlds are created by descriptions supplied by the game. To specify your actions, you type commands; no pointing and clicking allowed, but practice your map drawing.

#### **Graphics Adventures**

Also called illustrated adventures, these games use pictures to supplement or replace text descriptions of an imaginary world. In some graphics adventures the images serve only as illustration, while in others they serve as the interactive interface. You point and click on action gadgets, then on the image you wish to investigate or move towards.

#### Flight Simulators

Zoom into the air realistically with these games. You are at a flying machine's controls as ever-refreshed 3-D graphics simulate its movement through the skies. The best flight simulators sustain the illusion of flight by updating the display screen many times per second through complex computations reflecting changes you've made in speed, altitude, and direction.

#### **Role-Playing Adventures**

Assemble a party of adventurers, outfit them with supplies bought from the local store, and send them off on a quest to (usually) wipe out some monsterously evil being. As the category name implies, the challenge is to develop characters with the necessary attributes to successfully face the final challenge.

#### Strategy Games

With strategy games, joystick prowess takes a back seat to cool, calculating thought. The category encompasses games of logic, as well as games based on real-life scenarios.

more stacking room and adds points to your score. When the blocks no longer have room to fall, the game ends. Play on one of ten standard levels, ten advanced (double-time) levels, or in tournament mode against five opponents.



#### Best Graphic Adventure Infocom \$59.95

A prequel to the Zork Trilogy, Zork Zero sends you back to (or under) the old sod in the final days of the empire. The evil wizard Megaboz destroyed the ruling Flathead family with a curse that now threatens the entire kingdom—only you can save it. While the story is in the Infocom tradition, it is supplemented by an on-screen map, on-line hints, a mouse interface, and some graphic diversions. For a break from adventuring, try your

hand at playing Snarfem, the Tower of Bozbar, Peggleboz, or the legendary game of Double Fanucci.



Action/Strategy Cinemaware \$49.95

Lavishly set in 12th-century Japan, Lords of the Rising Sun values judgement and leadership over battle and joystick skills. As one of two brothers, you must avenge the death of your father by capturing all the country's castles and becoming Shogun. The other clans are not about to let you rise to the top unchallenged, so be prepared for battles, sieges, and a ninja raid. Even if you can keep the ware under control, the arcade sequences will keep you on your toes. "Don't bother trying to play as Yorimoto until you can deal with the uniformly fatal shirken sequence." —Dodson Yaple



#### Strategy Interstel (distributed by Electronic Arts) \$49.95

Built around the premise "This planet's not big enough for both of us," Empire starts you off with possession of one city and an urge to take over the rest of the planet. Your cities will produce armies, fighter jets, submarines, aircraft carriers, and battleships that you can use to capture other cities and, eventually, continents. Of course, two rival conquerers are doing the same and are out to get your cities. Careful management of resources and positioning are the keys to success.

"Start building ships early. You're probably on an island, and you'll need ships for invasions." —Peter Olafson

"Explore fast. Build transports early. Always choose unconquered territory over enemy-held. Wait, build, then destroy." — B.G. Hunter ▶

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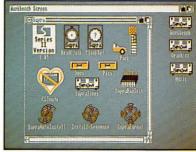
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#### Sports Cinemaware \$49.95

Play football against a friend or the computer, and lead your team through one game or an entire season. Choose your plays from a separate screen, then control your player with the joystick. In season mode, the program sets up a schedule and plays pairings where both teams are computer-controlled. It even keeps track of statistics and standings as the season progresses. With detailed graphics, bone-crunching sound effects, arcade action, strategy, and cheerleaders, TV Sports: Football offers something for all types of football fans.

"If you can't pass well, try running a wishbone. Actually this works a lot better if you are playing teammates, because the computer does not expect the laterals."

-Patrick Quaid

"Pick a few good plays and stick with them. When running out the clock, pick the formation but not the play and wait for the clock to run down to about three seconds, then pick and play." —B.G. Hunter



#### Best Strategy Maxis Software (distributed by Broderbund) \$44.95

Want to move, but can't afford the new house? With Sim City you can build a new city right in your own house. A city simulator based upon an American Urban Architecture model, the game lets you plan, develop, and manage a city's growth, taxes, budget, transportation, power sources, and more. Sadistic players can even inflict disasters (floods, fires, tornadoes, earthquakes, and monsters) on their cities. Before you take any action, you can poll the residents on how you're handling things or study the maps and graphs for more information. If you don't want to build your own, you can save the eight provided cities from their eight accompanying disasters within the allotted deadlines.

"As always, embezzlement is an undocumented option. Hold down the shift key and type

FUND. You'll be \$10,000 richer, and no one's the wiser, eh?"—Peter Olafson "When commerce demands an airport, put one in, but hook it up—it only causes plane crashes."—Sheldon Leemon



#### Best Arcade Discovery Software \$49.95

Large, gorgeous graphics make this vertically scrolling medieval slice-and-dice fest a stand out. As the hero or heroine, you must fight your way to and through the Castle Craggamoore and defeat Zoras the Necromancer to avenge his murder of your father. You are armed with only your sword, but will find other helpful items and magic spells along the way. Of course, you'll also find plenty of traps and Zoras' hench-creatures blocking your path. With a hot joystick and a judicious use of magic, you might make it through unharmed.

"Don't be scared off by the giant. He's big, but he's slow." — Peter Olafson



#### Best Sports Bethesda Softworks \$49.95

Wayne Gretzky Hockey simulates the good, bad, and ugly of hockey—fast action, teamwork, excitement, fights, fouls, and even bad calls. You can control a player for on-ice participation, stay be-

hind the bench to coach, or coach and play. You view the horizontally scrolling rink from above and control your player with the mouse or joystick. Whether you play the computer or a friend, you can handicap each other to play at high school, college, junior or professonal levels. As coach, you not only call the plays, but also make player substitutions. Each team member is rated from zero to nine for 11 characteristics. Make sure you have the best (and freshest) line on the ice for the situation.

"Chances are the moron who went offsides was you. The officials will make bum calls, so don't cut it too close." — Patrick Quaid



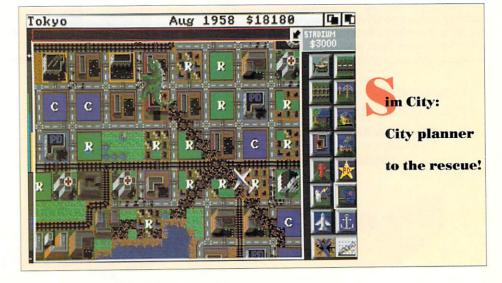
#### Best Action/Strategy Electronic Arts \$49.95

You play a god (evil or benevolent), aiding the expansionist policies of your own people and visiting earthquakes, floods, volcanoes, swamps, and more on the Other People, who are watched over by the computer or another omnipotent human. Essentially an icon-driven arcade chess game with real people, Populous offers 500 worlds to conquer, or use the world maker to design your own. "A good basic strategy is to create as much

"A good basic strategy is to create as much flat land (hence ripe for settling) as possible. Focus first on expanding settlements."

-Peter Olafson

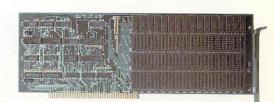
"Never cause a flood when your own people occupy the low lands!" —Sheldon Leemon ▶



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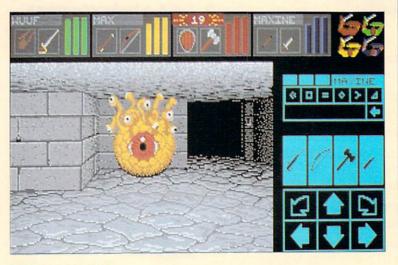
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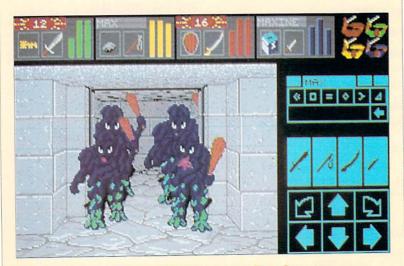
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The paramount dungeon adventure, Dungeon Master leaves all others of its ilk lurking in the shadows. You select four heroes, each with unique characteristics, and set out to recover the Fire Staff, stolen by Lord Chaos and hidden in his dungeon. As you descend through the 14 levels of serious hell, puzzles and foes get progressively tougher. Luckily, you can hear the sounds of approaching monsters. Don't get so busy fighting that you and your band forget to eat, drink, and rest. The game is played in real time (with the mouse), and you'll need your health and stamina. Keep your eyes open too for weapons, armor, and scrolls of magic spells strewn around the corridors. The complex puzzles combined with a simple interface make Dungeon Master accessible to beginning adventurers and intriguing to even the most jaded.

"The early nasties can be taken on head to head. The trees are even edible. Bash it out then, but don't be afraid of retreating from some of the ones that follow. Lure them from corridors into wider spaces where you can practice the 'Dungeonmaster Two-Step:' Float like a butterfly and sting like a purple worm." —Peter Olafson "Here's a handy way to inflict damage when you're weaponless: Lure monsters into a gate or doorway, then click to close the door on them."

-Peter Olafson

"You can only move as fast as your slowest member. Keep your two front scouts suited in the best armor and your supplies evenly distributed."

—Lou Wallace

"Look at what's on the walls, including dungeon fixtures you see constantly. Items are hidden everywhere."

-Linda Barrett ■



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## GHOSTS OF GAMES FUTURE

Unlike the bleak vision shown to Scrooge by Marley's Ghost, the future of Amiga games is full of promise and excitement.



F THE 1989 Computer Game Developers' Conference in San Jose was any indication, we should be seeing some dazzling new innovations in the Amiga game market for 1990 and beyond.

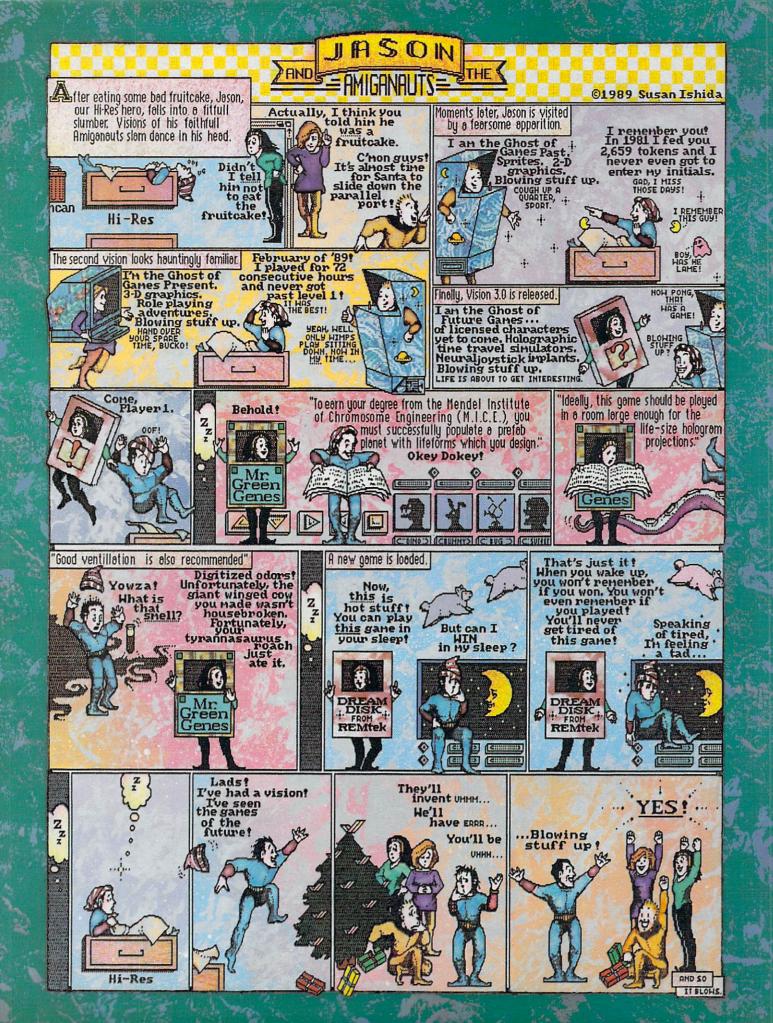
With over 300 game designers and developers in attendance, the Conference confirmed that the Amiga is currently the fastest growing computer for game software, and in 1990 it should pull into the No. 2 slot behind MS-DOS machines. And although many publishers may still develop their games first on MS-DOS machines, the majority will be following up with Amiga versions almost immediately—with some planning to develop specifically for the Amiga and its special capabilities.

Look for some Amiga games to require even one megabyte of memory and two disk drives, although the majority of games will still keep to the 512K standard as long as the A500 retains that amount as its base memory. Some developers plan to support extended memory to help buffer the flow of graphics or sound data from disk, creating a faster-playing game. Now that 68020 boards are more common, all games will be compatible with it.

More games will take advantage of some of the Amiga's unusual capabilities, such as HAM mode, multitasking, and four-channel stereo sound. Some publishers (most likely the smaller European developers) may initially use these as gimmicks to attract attention to their products, but they will probably be more widely exploited given a little more time. The new Fat Agnus chip will make possible larger graphics and sound files, but most publishers won't take advantage of this until the majority of machines have one (perhaps in 1991). Also, as hard-disk drives become more common, more games will work from one (the way Zany Golf from Electronic Arts or BattleChess from Interplay Productions do now). On-disk copy protection is becoming less popular, as publishers increase their use of code wheels, maps, and other tools that make copying difficult and annoying.

Many developers are adding a modem option to their games for multiplayer action. Modem options are usually found on a flight simulator, but developers plan also to use them in role playing and strategy games. Information services and networks will be offering more games with greater sophistication—

By Steve Peterson



Amiga-specific "front ends" with stunning graphics and sound and the ability to play the game with dozens or even hundreds of other people.

SAMES FUTURE CATCHING UP WITH AMIGA PRESENT

Much of the progress in game development will come about as software publishers begin seriously to tap the present capabilities of the Amiga. Graphics is one area developers are always striving to improve. Many current games use only 16 colors in 320 × 200 mode, as that makes it easy to move game graphics from the Amiga to the IBM or the Atari ST. But increasing competition has ruled that out for most games, and 32 colors are becoming the standard. Some games, particularly those from Psygnosis (such as Menace) are using Extra\_Halfbrite mode for 64 colors, and overscan for even larger screen sizes than normal. We have seen already a HAM mode game (Pioneer Plague from Terrific Software) using all 4096 colors at once. Because many games are being ported to the Amiga from the IBM's 256-color MCGA mode, we will see more Extra\_Halfbrite and HAM games in the future, as developers use the larger palettes to their fullest extents.

Animation is, of course, a key strength for the Amiga, where the blitter allows for faster animation than on any other personal computer. More publishers are trying out larger-size characters (à la Sword of Sodan from Discovery) for more realistic action. Silent Software (for upcoming games such as 20,000 Leagues Under The Sea) is using ex-Disney animators to give its animation that extra level of realism.

Sound is one of the Amiga's most powerful features, and more games are taking advantage of it. In order to keep music "portable" between different machines, many Amiga scores are being written for a synthesizer and stored as MIDI data. This data is then used to drive digitized instruments through the Amiga's stereo sound channels. Increasingly, developers are optimizing their scores for the Amiga's four-channel sound, adding stereo effects for added impact. In the future, a MIDI output option may be available on some games. (You will, of course, need MIDI equipment to use such an option.)

Sound tracks and sound effects will get better as developers become more familiar with the technology. Expect continuous music sound tracks (as in games such as Menace from Psygnosis) to be the standard in the near future. Eventually, we will hear interactive, context-sensitive music that responds to the current game situation: When your character is in trouble, the ominous piano tones will boom, and when the villain appears, the violins will shriek. (Sierra On-Line is developing in this area now.)

THE SOUL OF THE GAME

While graphics, sound and hardware considerations are important, they are only the exterior of a game. The soul of a game lies in its design and story, and more effort is being put there. MicroProse, for in-

stance, has hired a staff of experienced game designers from board-game and role-playing-game companies specifically to design (not program) its games. Other publishers are now bringing in writers and designers to help make their games better-written, more involving, and more exciting.

Many developers are trying to go beyond the basic shoot-'em-up or dungeon crawl. Cinemaware brought a new mix of arcade action and storytelling to the Amiga with Defender of the Crown and other titles. MicroProse is trying to blur the boundaries between action, simulation, and role-playing games. Its F-19 (coming soon for the Amiga) has RPG and simulation elements in its flight simulator combat missions, while its upcoming Samurai uses RPG, action, and war-game elements.

One of the few things that future games will have in common will be simpler interfaces. More games will have rows of icons (as in Dungeon Master from Software Heaven), rather than text commands, making international versions easier. Less violent themes and more cooperation will be another future trend.

Fantasy, science fiction, action, and sports will continue to be popular subjects for games. Licensing of popular movie and book titles will become even more common. In fact, there will be more efforts at making licensed products come close to the original. With Lucasfilm's Indiana Jones and The Last Crusade, several scenes that were cut from the movie appear in the game, and both George Lucas and Steven Spielberg participated in the design process. We will also see more cross-marketing of computer games with other media—such as paper games, comic books, and novels-to create multimedia game experiences. At present, for instance, a board-game version of the Ultima series from Origin Systems is planned, while Infocom's BattleTech role-playing game is also available in paper-game and book formats, and an arcade game is currently in testing.

Beyond the next few years, future visions include CD-ROM technology, which allows 600 megabytes of data. The results on an Amiga would be stunning: How does TV-like graphics and animation with full orchestral sound tracks grab you? New ways of interacting with the computer, such as individual eyescreens, body-movement sensors, or even direct neural connection, will completely transform the game interface. The games that are being forged now in the cauldrons of software development are the tools that will build this new industry. (*Note*: For addresses and telephone numbers of game developers mentioned in this article, consult the "Manufacturers' Addresses" box at the end of the Games Buyer's Guide on p. 58.)

Steve Peterson founded his own role-playing-game company in 1981, has worked for a major game developer, and written a choose-your-own-adventure book. Write to him c/o AmigaWorld, Editorial Dept., 80 Elm St., Peterborough, NH 03458.

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# The Great Amiga Games Buyer's Guide



FEEL THE URGE to conquer medieval Britain? Hop a spaceship to the planet Drax? Maybe you'd prefer a Rambo-fest of destruction? Whatever your fantasy, our Games Buyer's Guide offers a way to live it out.

With the entertainment market expanding at warp speed, we decided it deserved a product listing all its own (stay tuned for our annual applications software buyer's guide next month), and deluged games manufacturers with questionnaires. The *AmigaWorld* offices were then equally flooded with responses, which we sorted and cataloged in the eight categories listed below. (For an explanation of each, see the sidebar "Before You Play" on page 28.)

To keep the listing from being a complete flight of fancy, we listed only games already on the market or with a promised release date of November 31. Such promises—as well as prices and product names—are subject to change. If a company had decided on a release date but not a price, we listed NA (Not Available) in the Price column. For descriptions of last minute pre-Christmas goodies, watch our New Products column, "What's New?."

| Action/Strategy     | Role-Playing Adventures 5 |
|---------------------|---------------------------|
| Arcade              | Sports                    |
| Flight Simulators   | Strategy5                 |
| Graphics Adventures | Text Adventures5          |

\*\*\*\*\*\*\*

By Jan Jackson

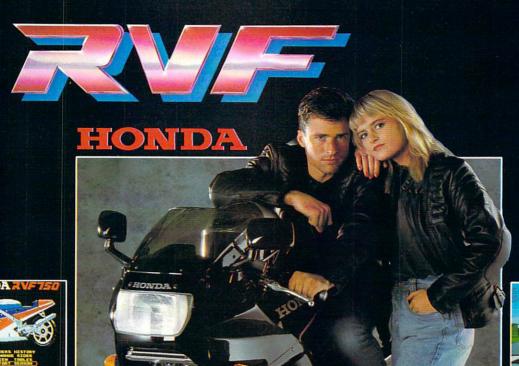




### ACTION/STRATEGY

| PRODUCT                           | COMPANY         | PRICE   | DESCRIPTION                                    |
|-----------------------------------|-----------------|---------|--|
| 4-In-One: Easy But Fun            | Polyglot        | \$14.95 | Play Slot Cars, Circuit Mania, Shuffle Puzzle. |
| Andromeda Mission                 | Demonware       | \$39.95 | See M31 in style.                              |
| Axe of Rage                       | Epyx            | \$49.95 | Avoid cave crud, lava rivers, dripping gore.   |
| Battleship                        | Epyx            | \$29.95 | Naval combat.                                  |
| Beyond Dark Castle                | Activision      | \$39.95 | Bomb and jetpack thru catacombs, swamps.       |
| Carrier Command                   | Medalist        | \$44.95 | Strategy—resolve the energy crisis.            |
| Death Sword                       | Ерух            | \$29.95 | Head-to-head medieval sword battle.            |
| Defcon 5                          | Cosmi           | \$39.95 | Star battle simulation.                        |
| Defender of the Crown             | Cinemaware      | \$49.95 | Lead Saxon swordsmen against the Normans.      |
| Destroyer                         | Ерух            | \$19.95 | Command a US destoyer.                         |
| Devon Aire                        | Epyx            | \$49.95 | Prowl a wealthy household for diamonds.        |
| DinoWars                          | DigiTek         | \$39.95 | Interactive game-includes encyclopedia.        |
|                                   | Interstel       | \$49.95 | Join an elite international strike force.      |
| Dragon Force<br>Federation        | Cinemaware      | \$39.95 | Strategic space trading, combat adventure.     |
| Fire Zone                         | Datasoft        | \$34.95 | Simulates combat scenario in the 21st Century. |
|                                   | Titus           | \$44.95 | Foil an alien take-over.                       |
| Galactic Conqueror Gold Runner II | Microdeal       | \$39.95 | Defend yourself from space pirates.            |
|                                   | Strategic Sim.  | \$39.95 | Advanced Dungeons and Dragons module.          |
| Heroes of the Lance               | Microdeal       | \$39.95 | 4-pack of Microdeal favorites.                 |
| Hits Disk Vol. I                  | Datasoft        | \$49.95 | Submarine simulation based on Clancy no .      |
| Hunt for Red October              |                 | \$39.95 | US forces in Central America.                  |
| Ikari Warriors                    | Elite           | \$19.95 | Explore eight towers, avoid robots, mines.     |
| Impossible Mission II             | Epyx            | 100     | Space battle.                                  |
| Insanity Fight                    | Microdeal       | \$39.95 |  |
| It Came from the Desert           | Cinemaware      | \$49.95 | Suppress giant, flesh-eating insects.          |
| King of Chicago                   | Cinemaware      | \$24.95 | Violence, intimidation, bribery.               |
| Kingdoms of England               | Incognito       | \$44.95 | Strategy game with graphics.                   |
| Knights of the Cryst.             | Terrific        | \$39.95 | Five inter-dependent, HAM mode games.          |
| Lazer Squad                       | MicroIllusions  | \$39.95 | Pack of MicroIllusions' hits.                  |
| Licence to Kill                   | Broderbund      | \$34.95 | As 007, bring a drug-lord to justice.          |
| Lords of the Rising Sun           | Cinemaware      | \$49.95 | Command armies of samurai.                     |
| Major Motion                      | Microdeal       | \$39.95 | Drive in jeopardy against the Lawless League.  |
| Manhunter San Francisco           | Sierra On-Line  | \$49.95 | Adventure strategy.                            |
| Matrix Marauders                  | Psygnosis       | \$34.95 | Maze action.                                   |
| Mighty Nerd                       | ISM Inc.        | \$49.95 | Edit powers of an odd superhero.               |
| Mind-Roll                         | Ерух            | \$29.95 | Maneuver a globe through astral planes.        |
| Pioneer Plague                    | Terrific        | \$39.95 | Stop a terra-forming robotic space ship.       |
| Police Quest                      | Sierra On-Line  | \$49.95 | Law-enforcement simulation.                    |
| Populous                          | Electronic Arts | \$49.95 | You play god—500 worlds to rule.               |
| Project Neptune                   | Ерух            | \$39.95 | Underwater in a sub or in scuba gear.          |
| Purple Saturn Day                 | Epyx            | \$39.95 | Intergalactic sports with aliens.              |
| Quadralien                        | Spinnaker       | \$39.95 | Destroy evil Quadaliens infesting Astra.       |
| Return to Atlantis                | Electronic Arts | \$19.95 | Aquatic adventure.                             |
| Revenge of Defender               | Ерух            | \$34.95 | Laserize otherwordly opponents.                |
| Rocket Ranger                     | Cinemaware      | \$49.95 | Battle 1940 Nazis and their machines.          |
| Rubicon Alliance                  | Datasoft        | \$29.95 | Pilot a Starfox fighter, planetary conflict.   |
| Sinbad and the Throne             | Cinemaware      | \$29.95 | Battle dark and mysterious forces.             |
| Skyfox                            | Electronic Arts | \$19.95 | Combat flight simulation.                      |
| Skyfox II                         | Electronic Arts | \$19.95 | Travel faster in a 3-D environment.            |
| Snow Strike                       | Ерух            | \$39.95 | Attack South American drug lords.              |
| Space Station Oblivion            | Ерух            | \$19.95 | 3-D terrain to explore by land or air.         |
| Star Trek V                       | Mindscape       | \$54.95 | Assume the role of Captain Kirk.               |
| Starglider II                     | Medalist        | \$44.95 | Interplanetary battle strategy.                |
| Stargoose                         | Spinnaker       | \$39.95 | Steal power crystals from one of eight cities. |
| Street Cat                        | US Gold         | \$24.95 | Multi-event feline sports activities.          |
| Sub Battle Simulator              | Epyx            | \$19.95 | Command US or German subs of WWII.             |













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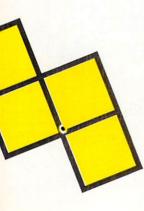


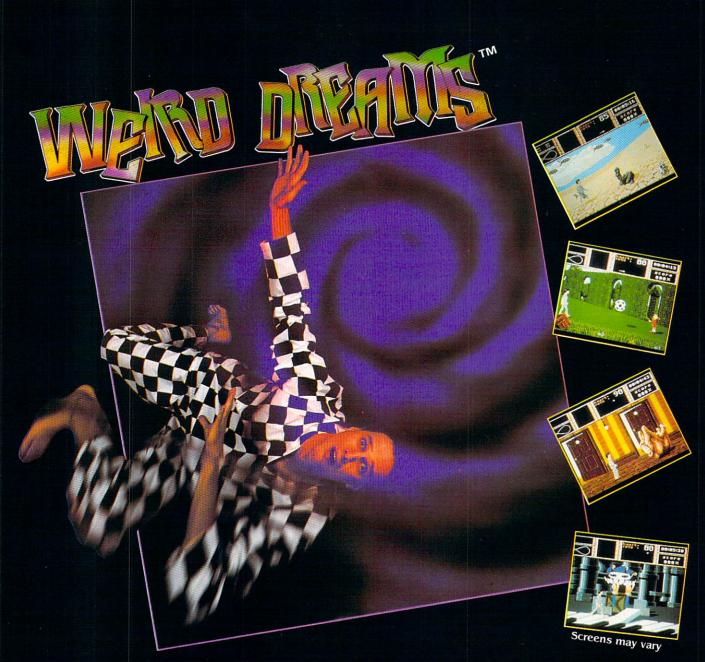


| Technocop             | US Gold        | \$49.95 | Cops and robbers of tomorrow.            |
|-----------------------|----------------|---------|--|
| Telewar               | Telegames      | \$39.95 | Tank, naval, and space battles by modem. |
| The Colonel's Bequest | Sierra On-Line | \$59.95 | Solve a murder.                          |
| Titan                 | Titus          | \$66.95 | Solve 80 levels of challenging puzzles.  |
| Total Eclipse         | Cinemaware     | \$39.95 | Locate and destroy an evil shrine.       |
| Tower Topler          | US Gold        | \$49.95 | 3-D spiraling, rotating towers.          |
| Turbo 20-20           | Gainstar       | \$39.95 | 3-D road war simulation.                 |
| U.F.O.                | SubLOGIC       | \$49.95 | Spacecraft flight simulator.             |
| Victory               | Demonware      | \$39.95 | Arcade-action, strategy.                 |
| Welltris              | Spectrum Hol.  | \$34.95 | 3-D Tetris-style game.                   |
| Zero Gravity          | Microdeal      | \$39.95 | Play ball in weightlessness.             |
|                       |                |         |  |

### ARCADE

| PRODUCT               | COMPANY          | PRICE   | DESCRIPTION                                     |
|-----------------------|------------------|---------|---|
| Aaargh!               | Arcadia          | \$39.95 | Your monsters munch through 11 cities.          |
| Action Fighter        | Mindscape        | \$39.95 | Careen in a crime-fighting motorcycle.          |
| After Burner          | Mindscape        | \$49.95 | Pilot an F-14 Tom Cat.                          |
| Airball               | Microdeal        | \$39.95 | Play ball in a house full of sharp objects.     |
| Ajax                  | Konami           | \$44.95 | Command attack copter and jet fighter.          |
| Alien Legion          | Gainstar         | \$39.95 | Horizontal scrolling-shoot'em up game.          |
| Alien Syndrome        | Mindscape        | \$39.95 | Rescue crew of alien-infested space ship.       |
| All Dogs go to Heaven | Polarware        | \$49.95 | Three dog's antics as in the film.              |
| Aqua Ventura          | Psygnosis        | \$49.95 | Move solid objects on scrolling screen.         |
| AquaBlast             | Elite            | \$34.95 | Complete your mission via complex waterways.    |
| Archipelagos          | Logotron         | \$39.95 | Quasi-tropical landscape with aliens.           |
| Arcticfox             | Electronic Arts  | \$19.95 | Arcade tank game.                               |
| Arkanoid              | Discovery        | \$29.95 | Breakout-style arcade with 66 levels.           |
| Artura                | Arcadia          | \$39.95 | An arcade adventure with enemies and traps.     |
| Aunt Arctic Adventure | Mindware         | \$39.95 | Help Charlie the Chimp and Penguin Pete.        |
| Awesome Arcade Action | Arcadia          | \$49.95 | Xenon, Blasta Ball, and Sidewinder.             |
| Baal                  | Psygnosis        | \$29.95 | Scrolling screen features 100 monsters.         |
| Ballistix             | Psygnosis        | \$34.95 | Play alternates between soccer, pinball         |
| Barbarian             | Psygnosis        | \$39.95 | You are Hegor the dragon-slayer.                |
| Battle Squadron       | Innerprise       | \$49.95 | Battle chameleon-like enemy.                    |
| Black Shadow          | Scorpion         | \$34.95 | Save earth from a deadly asteroid.              |
| Blood Money           | Psygnosis        | \$49.95 | Sequel to Menace.                               |
| Bomb Busters          | ReadySoft        | \$29.95 | Bombs to defuse.                                |
| Bubble Bobble         | Taito            | \$39.95 | Brontosaurus pair rescue friends from villain.  |
| Bubble Ghost          | Accolade         | \$19.95 | Maneuver a bubble-blowing ghost.                |
| Capone                | Actionware       | \$39.95 | 1920's-style arcade shoot-'em up.               |
| Captain Fizz          | Psygnosis        | \$29.95 | Two-player, co-operate-or-die alien blasting.   |
| Castlevania           | Konami Inc.      | \$44.95 | Tour past blood-thristy rogues gallery.         |
| Charon 5              | Mindware         | \$34.95 | Strategy and arcade action through 11 levels.   |
| Clever and Smart      | DigiTek          | \$34.95 | Help two bumbling detectives.                   |
| Combat Course         | Mindscape        | \$29.95 | Train at a top-secret training camp.            |
| Combat Zone           | Keypunch         | \$19.95 | Tank and helicopter combat.                     |
| Contra                | Konami           | \$39.95 | Guerilla warfare for the survival of the earth. |
| Cosmic Bouncer        | ReadySoft        | \$29.95 | Tennis ball comes to life.                      |
| Creature              | Actionware       | \$39.95 | Alien-eliminating while avoiding creature.      |
| Crystal Hammer        | Reline           | \$19.95 | Breakout-style arcade game.                     |
| Dark Castle           | Three-Sixty      | \$44.95 | Battle the Black Knight.                        |
| Datastorm             | Visionary Design | \$39.95 | Futuristic shoot 'em up.                        |
| Denaris               | HardWired        | \$39.95 | Help the Denarians shake the yoke of bondage.   |
| Double Dragon         | Arcadia          | \$39.99 | Amiga version of a popular arcade game.         |
| Double Dragon II      | Virgin Mast.     | \$39.99 | Martial arts for your Amiga.                    |
| Double Diagon II      | viigin mast.     | φ33.33  | martial arts for your Allinga.                  |





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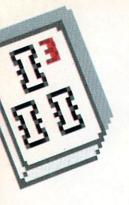
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Coming soon for IBM-PC/Tandy/compatibles, C-64, Amiga, and Atari ST. Can't find Weird Dreams? Call (301) 771-1151 x208 weekdays 8:30 am - 5:30 pm EST. © 1989 MicroProse Soltware, Inc. © 1987 Best Ever Games Company. Co-conception: Herman Serrano and Tony King. Co-design: Herman Serrano, James Hutchby and Tony King.



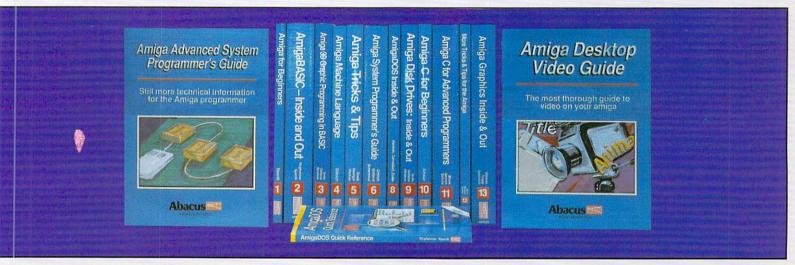


| Dragon's Lair           | ReadySoft            | \$59.95            | Save the princess from Singe.   |
|-------------------------|----------------------|--------------------|---|
| Ebonstar                | MicroIllusions       | \$24.95            | Arcade space game.  |
| Eliminator              | Hewson               | \$34.95            | Space highway arcade action.  |
| Emerald Mine I & II     | Kingsoft             | \$19.95            | Puzzles, each sold separately.  |
| Evil Garden             | Demonware            | \$39.95            | Arcade action.  |
| Exolon                  | Hewson               | \$34.95            | Space adventure, arcade action.   |
| Eye of Horus            | Logotron             | \$39.95            | Assemble pieces of body to vanquish evil.   |
| Fiendish Freddy's       | Mindscape            | \$49.95            | Play circus games while tormented by clown.                                       |
| Final Mission           | DigiTek              | \$29.95            | Dig and climb through 350 levels.   |
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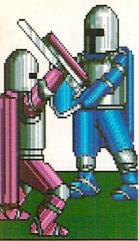
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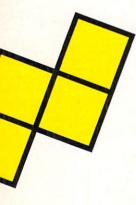
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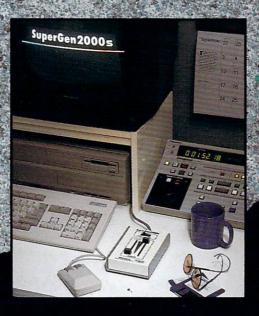


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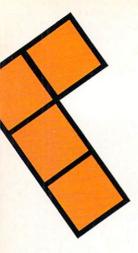
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| Black Tiger        | Capcom U.S.A.   | \$39.95 | Conquer foes and evil dragons.                |
| Code Name: Ice Man | Sierra On-Line  | \$59.95 | Role playing adventure.                       |
| Deathbringer       | Cinemaware      | \$39.95 | Bring down resurrected wizard.                |
| Demon's Winter     | Strategic Sims. | \$39.95 | Fantasy combined with adventure.              |
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| Last Duel          | Capcom U.S.A.   | \$39.95 | Pilot a futuristic craft for princess.        |
| LED Storm          | Capcom U.S.A.   | \$39.95 | Futuristic road-race, changing environments.  |
| Might & Magic II   | New World       | \$59.95 | 250 animated monsters and auto-mapping.       |
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| Phantasie II       | Strategic Sims. | \$19.98 | Locate and destroy Dark Lord's evil orb.      |
| Phantasie III      | Strategic Sims. | \$39.95 | Final confrontation against the Dark Lord.    |
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| Side Arms          | Capcom U.S.A.   | \$39.95 | Defend Earth from armed aliens.               |
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| Swords of Twilight | Electronic Arts | \$44.95 | Travel to other worlds, fight shodowlords.    |
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| Ultima III         | Origin          | \$39.95 | A fiery island marks the return of evil.      |
| Ultima IV          | Origin          | \$59.95 | Vanquish evil in this fantasy land.           |
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| Electronic Arts | \$39.95  | Miniature golf with unusual field of play.  |
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COMPANY

DESCRIPTION

### STRATEGY

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| Blackjack Academy  | MicroIllusions  | \$24.95 | Teaches and plays.                         |
| Blackjack & Solitaire  | Erisian         | \$29.95 | Carlos Monte's blackjack and Klondike.     |
| Blitzkrieg   | Command Sims.   | \$52.95 | Battle of the Bulge simulation.            |
| Boomeraid  | TSA Media       | \$30.50 | Define math functions to proceed.          |
| Breach   | OmniTrend       | \$39.95 | Tactical squad combat game.                |
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| Centerfold Squares   | Artworx         | \$29.95 | Pits you against a centerfold opponent.    |
| Chessmate  | Dark Horse      | \$29.95 | Chess simulation.                          |
| Clue Master Detective  | Leisure Genius  | \$39.00 | Computer version of popular board game.    |
| Colossus Chess X   | Artworx         | \$34.95 | Computer opponent learns strategy.         |
| Computer Scrabble  | Electronic Arts | \$39.95 | Computer version of crossword board game.  |
| Craps Academy  | MicroIllusions  | \$24.95 | Learn and play craps.                      |
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| Crossword Creator  | Polyglot        | \$49.95 | Create crossword puzzles—3-D graphics.     |
| Distant Armies   | Eagle Tree      | \$44.95 | A playing history; historical versions.    |
| Dominoes   | Polyglot        | \$24.95 | Classic board game, sound, 3-D graphics.   |
| Empire   | Interstel       | \$49.95 | Interplanetary imperialism simulation.     |
| Fidelity Chessmaster   | Software Tool.  | \$49.95 | New and improved chess.                    |
| Financial Time Machine   | First Row       | \$39.95 | Economics simulation.                      |
| Fire Brigaid   | Panther Games   | \$44.95 | War simulation.                            |
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| Golden Pyramid   | Micro Entert.   | \$19.95 | Patterned after Wheel of Fortune.          |
| Gone Fish'n  | Interstel       | \$44.95 | Fishing without bait.                      |
| Halls of Montezuma   | Strategic Stud. | \$39.95 | You are thereIwo Jima, Mexico City.        |
| Hollywood Poker  | DigiTek         | \$34.95 | Strip poker game with digitized opponents. |
| Ishido   | Epyx            | \$49.95 | Ancient oriental board game.               |
| Jigsaw Puzzlemania   | Artworx         | \$29.95 | Place jigsaw shapes in six puzzles.        |
| Kamfgruppe   | Strategic Sim.  | \$59.95 | WWII tank warfare.                         |
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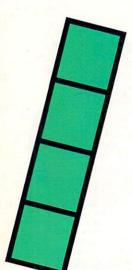
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| Rebel Charge                              | Strategic Sims.  | \$59.95 | At Chicamuauga: the South's last offensive.    |
| Red Lightning                             | Strategic Sims.  | \$59.95 | Simulation of potential war in central Europe. |
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| Sorceror Lord                             | Datasoft         | \$34.95 | Stop the advancement of the Shadowlord.        |
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| White Death                               | Command Sims.    |         | Wheel-of-fortune type game for up to six.      |
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| World Snooker                             | Artworx          | \$24.95 | Pool and billiards simulation.                 |



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| Ballyhoo                | Infocom | \$14.95 | Mail order only.                       |
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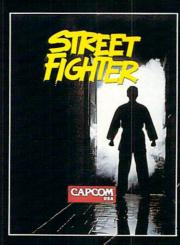
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Discovery Software International Inc. 163 Conduit St. Annapolis, MD 21401 301/268-9877

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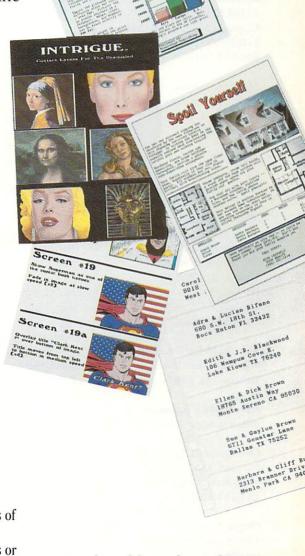
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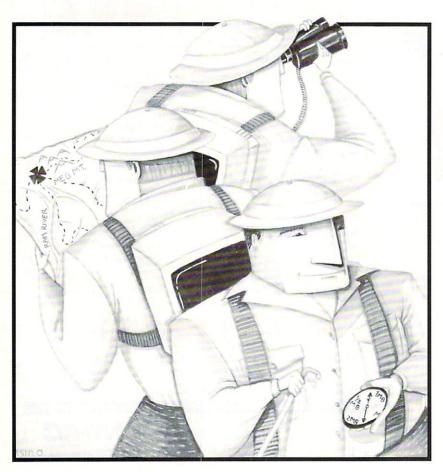
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# Pick a Path



If 512K cramps your Amiga 500's style, follow our upgrade map to a multi-meg paradise.

By Louis R. Wallace

THE STRAIGHT AND narrow is not always the best road to take—especially for upgrading your Amiga 500's memory. When you feel the pinch of a 512K system heavily multitasking or trying to load a one-meg-plus animation or program, the easiest solution is to buy the cheapest memory expansion you can find. While a quick, straightforward solution, it may limit how you can further upgrade your system.

A500s, although lacking the slots of the Amiga 2000, are surprisingly flexible to expand. You can add memory on two buses, internally, or in combination with a hard drive. As expansion memory is transparent (it changes system behavior only by adding more space for programs to operate), your prime considerations when shopping are not speed and performance but future expansion plans and power consumption (the A500 has a notoriously minimal power supply). Above all, be sure the device you choose conforms to the auto-config standard (all devices mentioned in this article do) that lets the Amiga detect the device automatically on boot up and install it in the memory map—no installation routines are needed.

The first step is to buy an internal 512K RAM cartridge to bring your A500 up to one megabyte. The module plugs onto the bus in the recessed area under the machine. In addition to Commodore's A501, several models are available. (See the accompanying chart for details.)

### HOP ON THE BUS

The easiest path to a multi-meg system is through the 86-pin bus on the left side of the A500. With the computer turned off, you simply snap a cartridge or small box on to the bus connector. The extra RAM is instantly available when you turn on the computer.

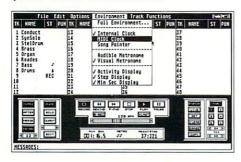
An excellent example of such a device is the tiny **Mini-Megs** cartridge from M.A.S.T. You can purchase it populated with 512K (\$223), one (\$299), or two (\$449) megs of RAM. If you buy Mini-Megs with less than two megabytes, you can later send it to M.A.S.T. ▶

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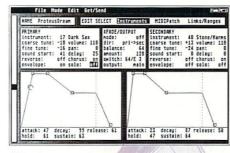
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for additional RAM. If you do not mind voiding your Mini-Megs warranty and feel technically confident, you can open the case and install the chips yourself. Mini-Megs' major limitation is that it does not have a pass-through port (i.e., a second port that accepts another expansion device and passes information between it and the computer). On the plus side, not expanding any further means the A500 has ample power for both the computer and the Mini-Megs cartridge. If you want only extra memory, then this limitation is not a problem. If you plan on someday expanding your system even more with a hard drive or specialized devices, Mini-Megs is not for you.

A more versatile bus upgrade is the **StarBoard-2/500** from Microbotics. Larger than Mini-Megs, the StarBoard-2/500 also snaps onto your expansion bus and is socketed for one megabyte of memory. You can purchase it unpopulated (\$339) and install the chips yourself, or buy it complete with one megabyte of memory (\$489.40). To keep strain off the A500's power supply, it comes with its own. The StarBoard also provides a pass-through bus expander.

The StarBoard-2/500 offers a more comprehensive upgrade path than just mere memory expansion. You can open your StarBoard-2/500 and install yet another megabyte of RAM or a multifunction board (\$90) with a clock, parity-checked memory, an optional Motorola 68881 floating-point coprocessor, and a StickyDisk recoverable RAM disk, which retains its contents during a warm boot. More important is the StarDrive SCSI Module (\$129.95), a SCSI harddrive interface. With this option you can later add a standard SCSI hard-drive without having to scrap the investment already made in the StarBoard-2/500. Like all Microbotics hardware, the StarBoard-2/500 is a well-designed, well-supported product, and a good intermediate step between a standard system and a multi-meg, hard-drive system.

### MASS TRANSIT

If you know from the start you want expansion RAM and a hard drive, you should consider my favorite method of expansion—the all-in-one solution. Several companies have combined a hard-drive chassis and a memory-expansion cartridge into one easily installed product. After installing the hard drive, you

just open its case and pop the RAM card in the slot. The accompanying power supply eases the load on the A500's original one.

A good choice is the **Impact A500-HD/XX** hard drive chassis from Great Valley Products. This small box quickly connects to the Amiga 500's bus and can contain from a 20MB (\$650, including unpopulated RAM card) to an 80MB (\$1429, including unpopulated RAM card) autobooting SCSI hard drive. For RAM expansion it has a slot for an optional two-megabyte RAM card (\$550 populated). Should you need help setting up the system, GVP has an excellent record of customer support.

If you prefer the security of an all-Commodore system, check out the **A590** hard disk and RAM expansion chassis (\$999). Pop it on the expansion bus and you add a 20MB hard disk and up to two megs of RAM.

Pacific Peripherals' **Synergy 500** hard disk and memory expansion system offers from a two megabyte RAM board (\$149 unpopulated; \$449 fully populated) and a hard disk ranging from 20MB (\$599) to 60MB (\$749). The drive is tethered to the bus expansion cartridge by a five-foot ribbon cable that gives you plenty of flexibility in positioning the drive on your desk.

Supra Corporation also designed its expansion in a two-piece system. The **SupraDrive SCSI Interface** (\$199) hooks to the bus, contains up to two megabytes of memory (\$549), and connects to any SCSI hard drive. (Supra sells from 20MB drives (\$599) to 250MB custom-built drives.) Supra recently reaffirmed its commitment to product support by upgrading the performance of their hard drives and controllers.

A new entry in the RAM expansion market, Xetec now offers RAM boards for its A500 Fasttrak expansion chassis. Connected to the bus via a small host adapter (with a pass-through for other bus devices), the Fasttrak is an expansion chassis that contains an autobooting SCSI hard-disk controller (\$399.95 alone), hard drive (complete systems from 20MB to 80MB for \$699.95 to \$1499.95), and RAM expansion slots. Xetec RAM boards can come configured with 512K (\$99.95) to a full eight megabytes (price market dependent) of RAM.

### THE SUBWAY

If you do not mind some extra work and risk, you can install a memory board inside your computer. The A500 was not designed for internal expansion, but at least two companies (Spirit Technology and Progressive Peripherals & Software) have successfully engineered internally mounted piggyback RAM boards that install on top of the motherboard.

To install either board, open your Amiga 500's case (thereby voiding your Commodore warranty), then remove the top, the keyboard, and the metal shield that covers the motherboard. The next phase is the most dangerous and delicate: Remove your 68000

| Internal | 512K | <b>Upgrades</b> |
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| 512K Clock/Calendar | Datel       | 129.95   |
| 512K Clock/Calendar | Skyles      | 139.95   |
| 512K RAM            | Supra Corp. | 149.00   |
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CPU chip from the motherboard and carefully install it in the waiting socket on the piggyback board. Finally, insert the pins on the bottom of the piggyback board back into the now empty CPU socket on the motherboard. Be very careful to not bend any pins. When you reassemble your Amiga and power up, you will have the additional memory. If you are not comfortable with a screwdriver or leary about dismantling your computer, let an authorized Amiga service center perform the upgrade for you.

I installed a fully-populated, two-meg SIN-500-2 board (Spirit Technology, \$623; unpopulated \$263) in about one hour. Each step is described clearly in the small manual. The only problem I had was that I inadvertently bent a few pins on the CPU while I was installing it in the piggyback board. Luckily, I was able to straighten them using needle-nose pliers. On power up I had two additional megs of autoconfig RAM in my A500.

The SIN-500-2 does use some of the A500's meager power supply, but, according to Spirit, it will work properly with the available power. Any additional expansion devices should have their own power supplies, or you should purchase Spirit's optional external power supply (\$21) for the internal board.

In an earlier review, AmigaWorld criticized Spirit Technology's first internal A500 memory board for not being fully autoconfig and giving you incomplete access to the RAM on the board. I was happy to see that the problems were eliminated in this model. Before I installed the SIN-500-2, I was skeptical of the internal piggyback board technique, but now I must admit it's a viable upgrade option.

Progressive Peripherals & Software also has an in-

ternal RAM board, the **EXP-1000** (\$299.95 unpopulated; \$429.95 one megabyte). Offering the same features as the SIN-500-2, it provides only half the memory. The board does require more power, however, enough that Progressive recommends that you upgrade your power supply before installing the RAM board. I suspect the EXP-1000 has larger power requirements because it uses the cheaper 256K DRAMS chips, while the Spirit board uses one-meg DRAMS. The Spirit board has only 16 RAM chips for its two megs, while the EXP-1000 requires 32 RAM chips to give you one meg. More chips require more power.

### WORTH THE TRIP

While expansion memory is easy to install and transparent to run, the configuration you choose can make all the difference in your system. If you have no future upgrade plans, get a simple, easy-to-install external RAM cartridge, such as Mini-Megs. If you want to keep the possibility open for additional upgrades, then take a look at the StarBoard-2. An internal board, such as the SIN-500-2, could be the answer for the technically adept who want their RAM out of sight and expansion bus free. The best solution, but the most expensive, is to upgrade with more memory and a hard disk at the same time. Before you buy those extra megs, however, carefully examine your needs both now and in the future. Otherwise, you might look back and regret the road not taken.

Louis R. Wallace is AmigaWorld's Senior Editor, Technology. Write to him c/o AmigaWorld Editorial Dept., 80 Elm St., Peterborough, NH 03458.

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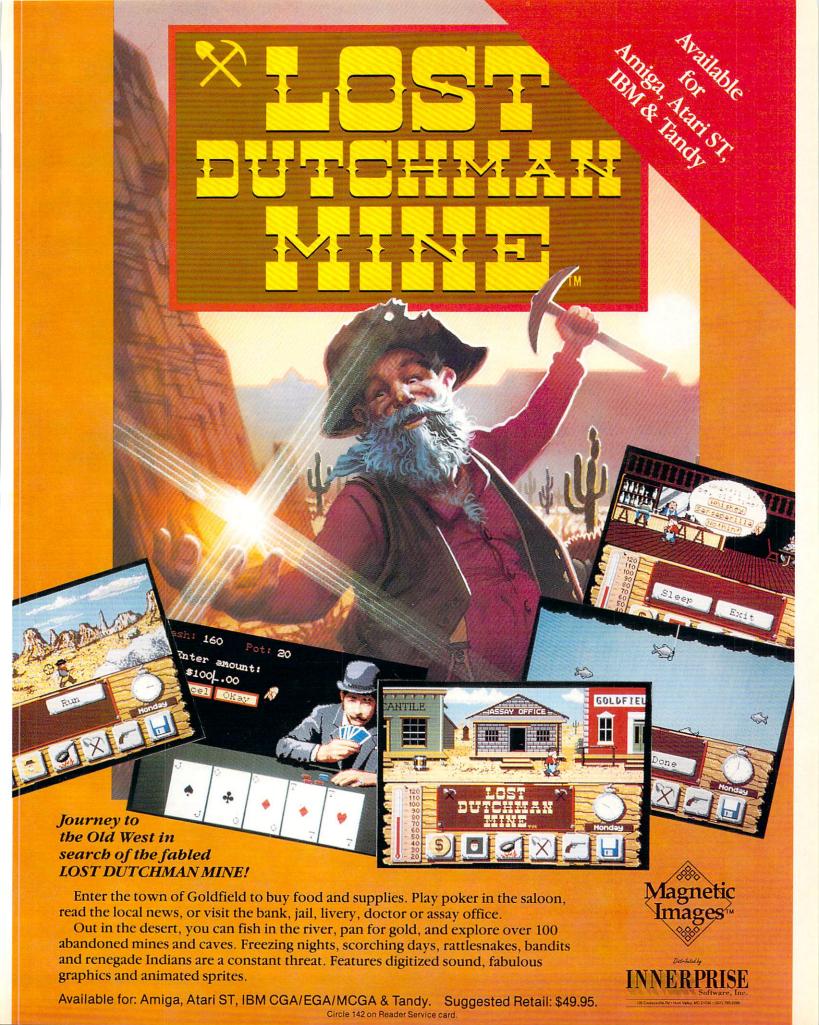
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|   | BATTLE CHESS. BATTLE SHIP BATTLE SHIP BATTLE SHOP BETTER DEAD T/ALIEN BEYOND ZORK BEYOND ZORK BIONIC COMMANDO BLACK CAULDRON BLACK LAUP BLACK LAMP BLACK LAMP BLACK SHADOW BLITZKRIEG (1 MEG VR). BLITZKRIEG 572 K   | 32 46<br>38 95<br>19 46<br>32 46<br>21 95<br>33 76<br>25 97<br>28 95<br>22 00<br>22 95<br>38 95<br>34 41  |
|   | BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETTER DEAD T/ALIEN BETOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLIACK JACK HOLDEN BLACK LANGE | 32 46<br>38 95<br>19 46<br>32 46<br>21 95<br>33 76<br>25 97<br>28 95<br>22 90<br>22 95<br>38 95<br>34 41<br>32 46   |
|   | BATTLE CHESS BATTLE HAWKS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK AJACK ACADEMY BLACK AJACK ACADEMY BLACK LANDOW BLACK LANDOW BLITZKRIEG 19 ME VR) BLITZKRIEG 19 ME VR) BLITZKRIEG 19 ME VR) BLOOM MONEY  | 32 46<br>38 95<br>19 46<br>32 46<br>21 95<br>33 76<br>25 97<br>28 95<br>22 00<br>22 95<br>38 95<br>34 41<br>32 46<br>25 95  |
|   | BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLETS HP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLITZKRIEG 19 MEG VR) BLOCKBUSTER BLOOD MONEY BOBO   | 32,46<br>38,95<br>19,46<br>32,46<br>21,95<br>33,76<br>25,97<br>28,95<br>22,00<br>22,95<br>38,95<br>34,41<br>32,46<br>25,95<br>23,36   |
|   | BATTLE CHESS BATTLE HAWKS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK SALUDADON BLACK JACK ACADEMY BLACK SALUDADON BLACK JACK WELVEN BLACK SALUD BLA | 32.46<br>38.95<br>19.46<br>32.46<br>21.95<br>33.76<br>25.97<br>28.95<br>22.00<br>22.95<br>38.95<br>38.95<br>34.41<br>32.46<br>25.95<br>23.36<br>21.95   |
|   | BATTLE CHESS BATTLE SHIP BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVEN DEAD T/ALIEN BETVOND ZORS BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK LAMP BLACK SHADOW BLITZKRIEG 15 72 K BLOCK BUSTER BLOOD MONEY BOBO BOMB BUSTER BREACH  | 32.46<br>38.95<br>19.46<br>32.46<br>21.95<br>33.76<br>25.97<br>28.95<br>22.00<br>22.95<br>38.95<br>34.41<br>32.46<br>25.93<br>36.21,95<br>25.95   |
|   | BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK SALUDRON BLACK JACK ACADEMY BLACK SANDOW BLACK SAN | 32 46<br>38 95<br>19 46<br>32 46<br>21 95<br>33 76<br>25 97<br>22 95<br>38 95<br>22 00<br>22 95<br>38 95<br>34 41<br>32 46<br>25 93<br>36 21 95<br>25 95<br>16 95   |
|   | BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD TALIEN BETTER DEAD TALIEN BETOND ZORE BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLITZKRIEG 11 MEG VR) BLITZKRIEG 157 K BLOCKBUSTER BLOOD MONEY BOOD MONEY BOOD BUSTER BREACH SCENARIO DISK BREACH SCENARIO DISK BREACH SCENARIO DISK BRIGGE 50 K   | 32.46<br>38.95<br>19.46<br>32.46<br>23.37<br>28.95<br>29.95<br>22.95<br>38.95<br>22.95<br>38.95<br>23.36<br>21.95<br>23.36<br>21.95<br>25.95<br>21.95<br>22.95<br>22.95<br>23.36<br>21.95<br>25.95<br>26.95<br>27.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95<br>28.95 |
|   | BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYOND ZORK BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK JACK ACADEMY BLACK SHADOW | 32.46<br>38.95<br>19.46<br>32.46<br>21.95<br>33.76<br>25.97<br>28.95<br>22.00<br>22.95<br>38.95<br>22.00<br>22.95<br>38.41<br>32.46<br>25.95<br>23.36<br>21.95<br>25.95<br>25.95<br>25.95<br>25.95<br>26.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95 |
|   | BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD T/ALIEN BETYER DEAD T/ALIEN BETYOND ZORS BEYOND ZORS BEYOND ZORS BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK LAMP BLACK JACK BLOOM BLACK JACK BLOOM BLACK JACK BLOOM BLACK BLOOM BLACK BLOOM BLOOM BLOOM BLOOM BLOOM BEACH BREACH SCENARIO DISK BRIGGE 50 BUBBLE BOBBLE BUBBLE BOBBLE BUBBLE BOBBLE   | 32.46<br>38.95<br>19.46<br>32.46<br>32.76<br>25.97<br>28.95<br>29.95<br>22.95<br>38.95<br>34.41<br>32.46<br>25.95<br>23.36<br>21.95<br>23.36<br>21.95<br>24.10<br>24.10<br>25.95<br>24.10<br>25.95<br>24.10<br>25.95<br>26.95<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10<br>27.10 |
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|   | BATTLE CHESS BATTLE CHESS BATTLE SHIP BATTLE SHIP BETTER DEAD TALLEN BETTER DEAD TALLEN BETTER DEAD TALLEN BETOND ZORE BIONIC COMMANDO BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK JACK ACADEMY BLACK SHADOW BLACK SHADOW BLITZKRIEG 11 MEG VR) BLITZKRIEG 15 TZ BLOCK BUSTER BLOOD MONEY BOOD MONEY BOOD BUSTER BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BREACH BREACH SCENARIO DISK BRIGGE 50 G BUBBLE BOBBLE BUSTER BUSTER BUSTER BREACH BUSTER BREACH BREACH BREACH BREACH BUSTER BREACH BREACH BREACH BUSTER BREACH BR | 32.46<br>38.95<br>19.46<br>21.95<br>33.76<br>25.97<br>28.95<br>22.00<br>22.95<br>22.00<br>22.95<br>23.36<br>25.95<br>22.00<br>22.95<br>23.36<br>25.95<br>24.10<br>22.95<br>24.10<br>22.95<br>24.10<br>22.95<br>24.10<br>25.95<br>26.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95<br>27.95 |
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## A Monochromatic Approach

# 9

A continuing series
of tips, techniques,
and tricks for
creating more
imaginative Amiga

graphics.

By Joel Hagen

ALTHOUGH THE AMIGA is capable of displaying 4096 colors, only 16 value levels of a given color are possible. I have always enjoyed painting in the 16 grayscale colors for the special quality of depth and dimension one gets from a monochromatic palette. Recently, however, I have been exploring techniques that retain that feel, but stretch the apparent value scale to the full 32 colors available in DeluxePaint.

If you view the palette of a 32-color image captured with NewTek's Digi-View (or most other digitizers), you will find the colors arranged in ascending order. Digi-View actually makes palette position 0 the darkest color, and position 1 the lightest color for menu readability, with the remaining 30 colors in a smooth sequence from dark to light. Even though adjacent colors may share the same "V" value level, one or two of the "RGB" levels will be different, creating a logical value differentiation. The result is a 32-level palette—the foundation of the techniques that follow.

#### CREATING THE PALETTE

It is possible to create such a 32-level palette from scratch using the tools in the Palette requester, but in this case I prefer to create a digitized palette. Soft, neutral colors can be elusive to build, and the visual context of adjacent colors makes objectivity challenging. For this technique, you create a palette with the objects you select for the camera. Avoid bright colors, or a broad spectrum; the point is to limit color and seek a smooth Range of values. Using such objects as shells, stones, pieces of wood, bones, and the like should yield excellent results. The palette in the accompanying illustration, "Biomech," is the product of digitizing a piece of notebook paper lying on dark wood. The incidental colors in the

value scale add vitality to the final painting while retaining an overall monochromatic tone.

I recommend working in 320 × 400 screen format, lo-res interlace. For convenience, I leave colors 0 and 1 for my menu colors, adjusting color 1 down the value scale to a soft amber to reduce interlace flicker. The remaining 30 colors are the painting palette. Set all Ranges but one in the palette requester to color 0 by clicking color 0, then Range, then color 0 again. Make the last Range the 30-color painting palette. With the mouse, make the background color the darkest color (color 2) and the foreground color any intermediate color. In the menu, set Prefs to Fast FB and Be Square. I toggle the cursor off with the Delete key, preferring to just look at my brush. Shift-K clears the screen to the background color, and F10 removes the menus. F5 will then put you in Shade, the primary mode for all painting that employs this monochromatic technique.

In Shade mode, tools respond only to those colors within a defined Range. One button lightens colors step by step through the other colors in that Range, while the other button darkens them in the same fashion. With the entire painting palette as a Range, your brush becomes a unique tool. One finger lightens as you move, the other darkens. The method is analogous to a favorite drawing technique of mine in which you rub graphite powder onto paper with soft leather to create shadow areas, then cut highlights back in with a kneaded eraser.

I began painting the alien skull in "Biomech" with a two-inch round brush.

## By mastering this group of subtle techniques, you can extend that unique feel of monochromatic painting to the full 32 colors available in your paint program.

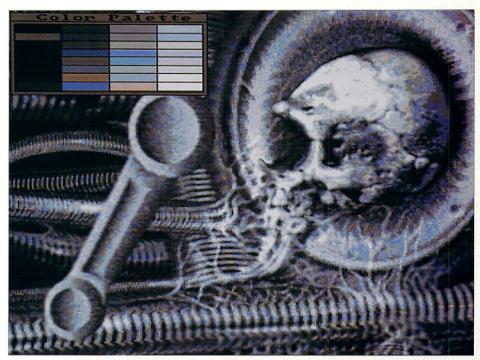
Working quickly and spontaneously, I lightened large areas, then carved them back by darkening to the background. You will come not only to accept, but also welcome the accidents and unpredictable shapes that emerge. The painting becomes a compromise between serendipity and control. In the early stages of the painting, I yield willingly to whatever character the medium itself has to offer. As the painting progresses, I exert tighter and tighter control to add the necessary definition to the image.

Having roughed out the skull, I used the "-" key to reduce the brush size as needed, working increasingly finer detail into the image, shifting rapidly between light and dark. Final details in the suture lines were done with a single-pixel brush, still in Shade mode. Shift-J copied the skull to the spare screen. I cleared the screen and began the background.

#### BACKGROUND AND FOREGROUND

Clicking any line tool with the right button brings up the spacing requester. I clicked Every Nth Dot, and returned to the screen to begin the large circular form. Using the unfilled circle tool in the Shade mode, I produced a disk of kaleidoscopic patterns with my two-inch brush. Still using the circle tool, but bouncing back and forth in the spacing requester between Every Nth Dot and Continuous, I highlighted the shape with a smaller brush, shaded it with another, then used Smear in the Nth Dot mode to add a ribbed texture.

The spring-like shapes were made with a quarter-inch round brush and straight-line tool, using Every Nth Dot,



"Biomech" (above) shows the extra warmth and vitality possible with a 32-level palette, while still retaining an overall monochromatic tone. (Note the colors in the palette, as reproduced in the inset, upper left.)

in Color mode (F2). By drawing a line I was able to lay down a series of quarter-inch dots. I picked up the whole line of dots as a brush and then returned to Shade mode and the curve tool (q). I drew a short curved line, and the row of dots made the entire spring. This was picked up and shrunk, and then Sheared, Rotated, and Bent, all from the Brush menu. I used it many times, overlaying it upon itself to create the background. After I placed the skull into the image, I used Blend and Smooth with small brushes to help soften edges and eliminate the "cut-out" look.

The mechanical foreground object was created with the filled-circle and polygon tools. I used the Horizontal Line gra-

dient fill with dither control set all the way to 15. After the first shape was drawn, I returned to the Palette requester and flipped the Cycle Direction arrow. This reversed the direction of the gradient fill, so that a second shape drawn within the first one created the concave illusion. Using Shade mode, I added dents, cracks, and other details as final touches.

Joel Hagen's credits include work in art, astronomy, science fiction, and software development. Write to him at 10512 Sawyer, Oakdale, CA 95361. Please include a stamped, self-addressed envelope.

## Mystery Sweeps Winners and Prizes

If you read last month's issue, you now know the solution to "Murder at Saratoga" and the names of our 12 Finalist Prize winners. This month we award Consolation Prizes to some of our many, many readers who participated in the Mystery Sweeps.

As all of the people who submitted entirely correct solutions to the mystery received Finalist Prizes, our consolation winners were drawn from the next closest solutions.

First preference was given to entries identifying the correct victim (Syl Vestry) and Buford Langtry (the next most likely choice) as the murderer. Second preference was accorded to entries specifying the correct victim but a murderer other than Davis Longfellow or Buford Langtry (although there were two consolation winners who identified the correct murderer, Longfellow, but the wrong victim). Remaining consolation winners were chosen from otherwise correct entries that listed Jimmy "The Satchel" Mikaros as the victim (a common mistake of many contestants who correctly solved all but the very last clue in Part I).

As you can see from the list below, we were able to award a significant number of Consolation Prizes. We were pleased to acknowledge at least some of the many people who spent a considerable amount of time following our mystery throughout the summer. We are extremely grateful to the sponsors-the many developers of fine Amiga products, whose names appear next to the prizes they donated-who made the

We thank all of you who participated and we hope those who didn't succeed this year will come back winners next year. And be assured, we will endeavor to make our 1990 contest-whatever the theme will be-match the challenge of the 1988 Treasure Hunt and this year's Mystery Sweeps.

#### Finalist Prize Sponsors

Before listing the Consolation Prize Winners, we would like to acknowledge the sponsors of our top 12 prizes, the winners of which were announced in last month's issue.

Grand Prize: GO AMIGO! of Redwood City, CA First Runner-Up Prize: LIGHTSPEED Distribution of Portland, OR

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Consolation Prize Winners

Complete Abacus Amiga Library-John Orwig, Columbus, OH; Photon Paint (Microlllusions)-Lewis Hatch, Los Lumas, NM; SupraModem 2400 (Supra)-Tony McLaughlin, Stittsville, Ontario, David Hahne, Newport News, VA; Clip Art Disks (Magentic Images)-Ken England, Hammonton, NJ; Falcon (Spectrum HoloByte) - Sylvia Bennett, Tampa, FL; Tetris (Spectrum HoloByte) - Debbe Loebrich, Maumce, OH.

Superbase Pro 3 (Precision)-Stephanie Bartz,

South River, NJ, Jesse Smith, Arlington, TX, Brent Hunter, Salt Lake City, UT, Hector Gutierrez, Lindavista, Mexico, Brad King, Hayesville, NC, Jeffrey McHarg, Acton, MA; Superbase Personal 2 (Precision) - Jonas Winfield, Augusta, ME, Jean Augsburger, Ellicott City, MD, Arthur Entlich, Bergenfield, NJ, Billy Ray Justice, Sumter, SC, Ken Smith, Charlottesville, VA; SuperPlan (Precision)-Dennis FitzGibbon, South Haven, MI, Jacob Fetsch, Schererville, IN, Dewilton Haslup, Arlington Heights, IL, L. Crawford, Harrisonburg, VA, Linda Adams, Highland Heights, OH.

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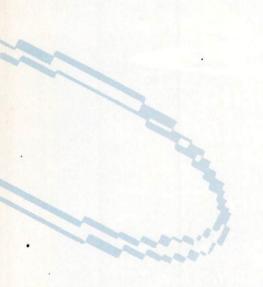
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### info.phile



TYPING THE SAME commands over and over again for often-used routine procedures is one of the most annoying and time-consuming tasks. A powerful feature, however, of AmigaDOS 1.3's new Shell—its ability to create scripts—can lighten the load considerably.

Scripts are sequences of commands that you can execute as if they were single commands. Scripts (also called batch files or command files) are actually ASCII files that contain lists of commands. When you execute a script, the Shell treats it essentially as if you had typed the commands in the file.

You can create scripts with any text editor that can save its output as pure ASCII. This includes ED and MEMACS, as well as Notepad—although with Notepad you must stick to one font and you cannot use any styles. You can put any of the normal Shell commands in a script, as well as such special commands as IF that work only in scripts.

Let's start with a very simple example: a script that saves the files in your current directory to a directory named BACKUP on the disk in your external drive, dfl:. First, create the directory BACKUP on the disk in dfl:. Then, using your text editor, create a file named

## Scripts For Success Part 1

This three-part series from our AmigaDOS directing team will demonstrate why 1.3's new Shell, not Hollywood, is the hot spot when it comes to writing and producing blockbuster "scripts." Ready to roll on Act One...

#### By Mark L. Van Name and Bill Catchings

SAVEIT that contains the single line COPY #? DF1:BACKUP

There are three ways to run a script. Two work from the Shell, while one runs from Workbench. All scripts, however, work the same way within each method, so our example will suffice to explore all three approaches.

#### EXECUTING SCRIPTS FROM THE SHELL

The traditional way to run a script is with the EXECUTE command. Simply follow that command with the script file's name, as in

#### EXECUTE SAVEIT

This approach appears to require you to put the script you want to run in your current directory, which could be a problem if you use several scripts regularly. Don't worry; EXECUTE is smarter than that. When you enter

#### EXECUTE <file>

EXECUTE first checks for <file> in the current directory. If it is not there, EXE-CUTE then checks both the S: directory (usually Workbench1.3:S) and all the directories on your path. (S: is the standard AmigaDOS script directory, in the same way that C: is the standard com-

mand directory. If you use a script often, you should put it in S:.)

In AmigaDOS 1.3, however, a new, shorter approach to running scripts has been added. To use the new method, first you must tell AmigaDOS that your script file is a script. To do so, use the PROTECT command to set the file's script protection bit, as in

#### PROTECT SAVEIT +s

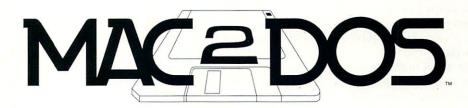
Now you can treat the script file almost as if it were an executable program. To run it, simply type its name at the command prompt:

#### SAVEIT

Because the Shell can tell that SAVEIT is a script file, it calls EXECUTE to run that file. This approach works even if EXECUTE is not resident, although EXECUTE must be in a directory (usually C:) where the Shell can find it.

#### EXECUTING SCRIPTS FROM THE WORKBENCH

The ability to execute scripts from the Workbench, courtesy of the program IconX, is another feature of 1.3. (You never run IconX directly—in fact, you cannot run it from the Shell—but Workbench does use it to execute scripts.)



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- Mark R. Brown, INFO #26, May/June, 1989

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First, write the script in the usual way. You may set the script bit, although it is not absolutely necessary to do so. Because you want to use the script from the Workbench, you must give it an icon. (Make sure it is a Project icon, not a Tool icon.) An easy way to obtain a Project icon is to copy the icon of the file ReadMe in the main directory of the 1.3 Extras disk. With that disk in dfl:, you can assign SAVEIT an icon by entering

COPY DF1:ReadMe.info SAVEIT.info

The next step is to edit your script's icon so that IconX can work with it. Go back to the Workbench screen, open the drawer containing your script file, and click once on its icon. Then move the mouse cursor to the Workbench menu and select Info. What appears is a full-screen window labeled "Info 1.3" in which you will perform your editing.

Make sure the icon's TYPE (right under its NAME) is Project. (If it is not, click QUIT to exit Info, go into the Shell, delete this icon, and get a Project icon for your script.) Click in the Default Tool field. Delete any characters that are already in that field, and then enter

#### C:IconX

We assume here that you use the standard C: directory. If not, enter the full pathname of the IconX program on your Workbench disk.

Now check the Tool Types field. If it is blank, click on the up and down arrows (next to the words "TOOL TYPES") to make sure that there are no hidden tools. If no tools appear, you are all set to run your script. If you obtained your icon by copying ReadMe's icon, however, you have some additional work to do. In fact, you will find four tools here. Click on the Delete button next to the Tool Types text field to delete the currently visible tool. Repeat that process until all the tools are gone. Verify this by using the up and down arrows. Do not merely delete the characters in this text field; a blank tool will confuse IconX and stop it from running your script. Use the Delete button to remove them all.

Now we're ready to go. Click SAVE to exit IconX and save your changes. To run your script, double-click on its icon.

A Shell-style window will appear in the same spot and in the same size as the standard Shell window, but its label will be IconX rather than Shell or CLI. The output of your script will appear in that window; SAVEIT will display the names of files as it copies them. When the script is done, the window will disappear immediately and you will be back to the Workbench.

#### GETTING AROUND THE GLITCHES

That rapid disappearance can be annoying when you need to read your script's output, but, fortunately, the problem is easily remedied. Bring up Info on the icon as before. Go to the Tool Types field, and this time click on ADD, not DEL. Type the following line into that text field:

DELAY = 150

This line will make IconX wait 150 "ticks" after the script is done before it closes the window. An AmigaDOS "tick" is one-fiftieth of a second, so that a value of 150 will give you a three-second delay. You can substitute any number you wish to achieve the delay of your choice.

Be sure to type the line given above just as it appears. If you leave any spaces before or after the equal sign, or if DE-LAY is not all in uppercase, IconX will ignore your new instructions. Also, beware of a bug in the AmigaDOS 1.3 Enhancer Software manual. It states that you can use a DELAY = 0 here to make the IconX window stay open until you type CTRL-C. That is not the case. To verify that the delay works, click SAVE in Info and then run the script again.

While this procedure solves one difficulty, two nagging problems persist: You are stuck with that default window, and the window's name is IconX, not that of your script.

Go back to Info. The solution is to add another tool, so click on ADD in the Tool Types field. This time, however, you will need to add a Window tool that will define the location, size, and title of your script's window. To do so enter the following line in the format:

WINDOW = <handler:><startx>/
<starty>/<width>/<height>/<label>

where <handler:> is the name of the

window handler you want—either NEW-CON: for the new Shell handler (which we recommend), or CON: for the CLI's handler.

The next four entries define the placement and dimensions, in pixels, of the window. <startx> defines the left margin of the window in relation to the edge of the screen, while <starty> sets the depth of the window's starting position from the top of the screen. To begin the window at the upper left corner, for example, make both of these 0. The <width> and <height> of the window are also defined in pixels. To make the window the width and height of a full, non-interlaced screen, use a <width> of 640 and a <height> of 200. (The slashes (/) between the entries are required.)

With <label> you assign the name that will appear in the upper left corner of this window, replacing IconX. The label can contain spaces, and unlike with the Shell, where you must surround a label containing spaces with quotes, here you can simply type in the spaces. (If you were to use quotes here, they would appear as part of the window's title.)

Thus, to create a full-screen window whose label is My Script, enter

WINDOW = NEWCON:0/0/640/200/ My Script

Again, be careful: WINDOW must be all caps, and no spaces should appear before or after the equal sign.

It is perfectly okay to have both the Delay and Window tools in the same script icon, even though you are not using them at the same time. Remember, however, that you can edit or delete only the tool that is currently visible. Use the up and down arrows to make visible the tool you wish to edit.

Click SAVE, and you are ready to proceed. Now when you run SAVEIT, its window will follow your specifications, not the Shell standard.

You should now have enough general background on *running* scripts. In the next two columns we will look at the commands and features that you can employ to *write* powerful scripts.

Bill Catchings and Mark L. Van Name are contributing editors to AmigaWorld. Write to them at 10024 Sycamore Rd., Durham, NC 27703.

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## Bad Games Anonymous

What happens when you can't just say no.

#### By B.G. Hunter

A FEW MONTHS ago I noticed a disturbing theme in the letters I received from readers. Many Amiga owners are so addicted to computer gaming that they compulsively play inferior games they shouldn't even like. To rescue these readers, I've started a self-help-by-mail organization, Bad Games Anonymous (BGA). Here are some confessions from the charter members. If, as you read these letters, you catch glimpses of your own gaming behavior, then it might be time for you, too, to join BGA.

Consider "Head Lock's" plight:

Dear B.G.,

I'm hooked on International Championship Wres-



tling (Avatar Consulting, \$32.95). ICW is as bad as the real thing, maybe even worse, but, like many wrestling fans, I can't help myself.

I usually start out as the high-flying Eagle, master of the Texas Bulldog. I'm sorry, but I just love fighting my way through Ivan, the Russian assassin, and Khan, the Mongolian Killer, so that I can finally meet Bruiser, the ICW Champ, mano a mano. First I box with them, wearing them down, and then I switch to wrestling mode and trash them with a suplex or two, an atomic drop, maybe a power slaw, and my favorite, the piledriver. I love the grunts and groans, the satisfying thump as my opponent hits the mat.

Getting him to the thump is guess work. It's almost impossible to remember which joystick position does what, and every bit as hard to learn to control the joystick so that you can finally lay a hand on your opponent, but I don't care—I'm hooked. I don't even mind the fact that all I can do when my opponent has me down is shake the joystick wildly and scream at the screen. Help!

"In the Gutter" no longer leaves his home he's so thoroughly afflicted:

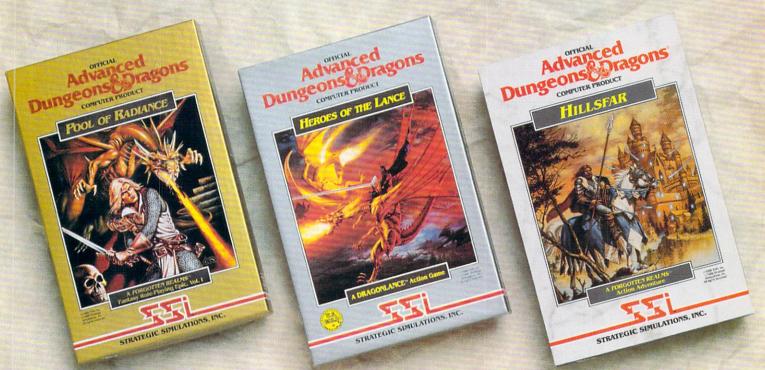
Dear B.G.,

I want to stop playing Superstar Indoor Sports (Mindscape, \$49.95), but I can't. I keep thinking it will get better, but it never does.

Five hours of bowling made my hand ache as if I ▶

Bruiser's on a wrestling rampage.

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had been at the lanes. If I kept fiddling with the ball weight, the alley slickness, the aiming arrow, my release point, and the skill level, I knew I could win. The next problem would be reproducing the complex formula for future games.

Bowling is tolerable, however, compared to darts and ping-pong. I wasted hours trying to master the overly complicated dart-throwing technique: depress the joystick button to aim, release it to determine the throwing angle, and then click again at the appropriate power setting. With all the dials spinning and power bars pulsing I lost track of the dart. In pingpong, I understand the backspin and the smash techniques, but I can rarely get to the ball to use them. The paddle always drifts across the screen at the same speed, no matter how quickly I react or how fast the ball is moving. I often flail at air. Please help me.

Written in crayon in a large, barely legible scrawl, a letter from "Little Rumbler" said:

Dear Mr. B.G.,

I got tired of doing math problems in that Discovery game. I went to my daddy's room and took Thunder Boy (DigiTek, \$34.95).

A little blond boy in diapers jumps over spiders with stingers and runs away from bats and other bad things. He has to go fast before he runs out of energy. The boy tries not to get killed by these things. He's supposed to save "his woman" that some dragon kidnapped. I don't understand why he'd even want a woman, but I figured it was okay because it was only a game. Besides, he makes a really neat, bad scream when he dies. He dies a lot. I can't make him jump and run very well. I read the rules, but they were shorter than my reading group lessons at school. Why is something so silly, so hard?

I don't want to keep playing this game. Don't let me try to save that woman any more!

I vow to do my part, Little Rumbler and bad game junkies everywhere. I'll be ever vigilant, ever honest in my quest to separate good games from bad, to try to stop any more innocents from being sucked into the painful trap of bad game addiction. □

Although not the type to be caged in an office, B. G. Hunter does skulk in occasionally to pick up his mail. Write to him c/o AmigaWorld, Editorial Dept., 80 Elm St., Peterborough, NH 03458.

#### G A M E R E V I E W S

#### SIMCITY POPULOUS

#### By Peter Olafson

QUITE A transformation has been wrought in my life with the arrival of SimCity and Populous, two delightful programs that allow would-be Apollos to be omnipotent on scales both global and municipal. It's long past the seventh day since these two arrived, and I haven't rested. I haven't even come up for air.

SimCity permits you to design a city from the ground up, and to try to master the problems plaguing the "sims" who then build and inhabit it: pollution, traffic, unemployment, the whole bit. In Populous, you have to build up or tear down the ground itself to encourage your people—an

animated lot of top-tappers in *Flintstones* outfits—to build the settlements themselves, while stomping the minions of an enemy god.

The animation provides the initial tickle; it's easy to forget playing the games, and just watch the little people run around your creation like madmen. Things will come

apart quickly without your guiding hand. In SimCity, you lay out streets, bridges, parks, commercial, residential and industrial zones, power plants, airports, and seaports. The residential zones sprout houses, cars appear on the roads, ships on the waterfront, planes in the sky. The stadium >



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All packages require AmigaDos V1.2 or V1.3, a minimum of 512K of memory and a paint package.

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Deluxe Paint II is a trademark of Electronic Arts; Amiga and Amiga-Dos are trademarks of Commodore Amiga. fills up for home games. Put a nuclear power plant in the middle of a suburban neighborhood and people will move away. And woe betide the simulated city that doesn't have enough money to cover its budget come January 1st. You can track your progress via the graphic overlays, charts, annual budget, year-end population survey, and opinion poll. While this game is the most sophisticated ant farm a kid ever had, it's not so sophisticated that you can't just boot up and fool around.

If you get bored with your

you raise and lower land to provide a nice level surface for construction, while using earthquakes, swamps, volcanoes, and floods to give your opponent—either the computer or another schnook with a modem—a nasty pitted and rocky one. (Building volcanoes on top of one another in the enemy's chief civilized plain effectively makes that territory unusable for the next millennium or so.)

The overhead view of Sim-City is impressive, but Populous has to be seen to be believed. The bulk of the



The fate of Populous dwellers is in your hands.

creation you can select a cataclysm to rain down upon it. There are also a number of pre-built, problem cities—such as post-meltdown Boston and post-firestorm Hamburg—to redeem. If you master all of the above, the file format for cities is identical on the Amiga, IBM, and Macintosh versions, and you can exchange your creations; I've already spotted a handful on the networks.

Populous isn't the social wars on crime and poverty; it's more like war, period. You help your people settle land, increase their number (and hence your power or "manna") and give the hardest of times to rival settlers in red suits who are aided and abetted by another god. To do so,

screen is taken up with two maps: a "Book of Worlds," showing the full playfield, and a glorious perspective view of a closeup map complete with settlements from grass huts to turreted castles, people, trees, mountains, and coastlines. The icon system isn't quite as painless as SimCity's, but it's the next best thing, and you'll be cutting down the heathens in no time. The atmospheric, Gregorian chant-like music and special effects (heartbeats, for instance) provide just the right apocalyptic touch as your civilization does the dance of death. ►

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| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>4.00   |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>4.00<br>4.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00 |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>3.00<br>4.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00 |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00<br>7.00<br>3.00<br>4.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00<br>6.00 |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>3.00<br>3.00<br>3.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00<br>4.00 |
| Interchange  | 2.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>7.00<br>3.00<br>6.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00 |
| Interchange  | 2.00<br>9.00<br>9.00<br>3.00<br>4.00<br>5.00<br>5.00<br>5.00<br>5.00<br>7.00<br>3.00<br>7.00<br>3.00<br>7.00<br>3.00<br>7.00<br>3.00<br>4.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>6.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00<br>7.00 |
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Both Populous and SimCity have a few surprises, but none are nasty bugs. In Populous, I occasionally wished for a second, independent computer opponent to keep me looking over my shoulder at critical junctures and prevent outcomes from being too much a sure thing. My only laments about SimCity are its occasional rigidity (roads can curve, but bridges and tunnels can't) and the inability to mix some elements. (Try running a power line under a bridge.) Version 1.1 clears up the multiple drive and partition bugs of the original.

The real joy of these pro-

grams is the interlocking relationships. Sure, vou're a creator. but even more a facilitator, influencer and stage-setter for little computer people who act on your wishes in their own time and fashion. Of the two, I prefer the more intimate urban controls of SimCity to the sweeping omnipotence of Populous. (Populous: \$49.95, Electronic Arts, 1820 Gateway Dr., San Mateo, CA 94404, 415/571-7171, no special requirements. SimCity: \$44.95, Maxis Software, distributed by Broderbund Software, 17 Paul Dr., San Rafael, CA 94903-2101, 800/521-6263. 415/492-3500, one megabyte required.)

#### WAR IN MIDDLE EARTH

#### By Neil and David Randall

WE THOUGHT WAR in Middle Earth would be the ultimate Tolkien game, combining the best elements of the book with the most intriguing aspects of strategic war games then we started playing. (By all means, read the manual first.)

The game captures the feel of the different stages of the Hobbits' journey to Mount Doom. The dreaded Nazgul, even though you can discern their location, are fast and deadly. The trip from Hobbiton to Rivendell is frightening, as it is in the book. Detouring to find needed objects and treasures increases the Nazguls' chances of detecting you and thus heightens the immediacy of the race. While you can change the game speed (Normal, Hasty, and Very Hasty), everybody's speed does not change by a common ratio. When trying to evade the Black Riders, changing from Normal to Hasty increases the Nazguls' chances of finding you. If you leave the speed on

Normal, however, the game slows to a crawl.

To move, you order the characters to a specific place and the computer picks the best route (you can alter it if you wish). Movement commands can only be executed on the Campaign level, which shows a detailed, beautifully scrolling map of the immediate region. Most of the game is played on this level, but you'll want to spend some time watching the colorful animations on Animation level. which uses strong graphics (albeit some strange depictions of Tolkien's characters) and interesting sound effects.

When you meet characters, be prepared to work for your information. You cannot communicate with most of them, but when you can, the character will give you clues. A good feature, but they stay on the screen only briefly. If you click



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the mouse, the information is gone, and not retrievable.

A more significant problem is the game's crashes. Animation screens are frequently obliterated by a series of data numbers, and when trying to move multiple forces we usually had complete software lockup.

Most irksome to Tolkien disciples, the game misses the point. The Lord of the Rings was about characters, not about warfare. We liked the combination of characters and armies in the game, but feel that the characters were given short shrift. Somehow, Tolkien's great humanity was lost in a sea of only partially appropriate details. (\$49.99, Melbourne House, 711 West 17th St., Unit G9, Costa Mesa, CA 92627, 714/631-1001. No special requirements.)

#### KIKUGI

#### By Shawn Laflamme

KIKUGI IS AN ancient Japanese game of concentration and strategy, brought to the Amiga by Image Tech. Unlike other current Amiga games with Japanese themes, this one is for the thinker rather than the samurai.

The disk includes 15 different game boards, all of which are variations on the same theme. The Original board contains 32 marbles arranged in a cross pattern with one empty space in the center. You jump one marble over another into an empty space, removing the one that you jumped. The idea is to remove all but the last marble, which should be left in the center position on

the board. If you succeed, you are rewarded with a fortune cookie.

All of this sounds very simple until you attempt to do it. You will quickly discover that you need to develop some sort of strategy for removing the pieces; slow down and think ahead as many moves as you can. Each move becomes more critical as you go along.

If you find that you need some practice, you can make a humble retreat to the Beginner's board, which has only 19 pieces to worry about. The other 13 boards on the disk

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- ☐ #117 Business III DataBase, a bunch of great new fonts,
- RSLClock-great clock utility, AmigaSpell.

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"99 Modem Madness! - Terminals include StarTerm, ATerm, and Kermit. Telecommunication utilities such as Archive are also here. Other types of programs and utilities are also included in the price of admission

#### UTILITIES

- ☐ #60 AmigaBasic Two programs that are truly of commercial quality, Cell-Animate and Graphit. Some Deluxe Paint picture files are also included.
- #97 Tutorial Disk1 A disk full of information and programs to instruct Amiga Programmers and users. Several C & ASM source files are included.
- #98 Tutorial Disk2 More of the best of Amiga Information.
- □ #129 Amiga Utilities II A hard disk backup; Target-sounds a gunshot whenever the left mouse button is pressed; Dpaint Tutor; WinSize-change window size from CLI easily, and lots more. #132 Videomaker Utilities - This disk is packed with utilities
- to make your desktop videos easier to produce and more professional looking.

  #133 DOS Helper - Designed to help you with the AmigaDOS
- commands. Supports multitasking.

APPLICATIONS

☐ #135 Applications II - Long Movie-plays several Iff pictures, creating animation. QuickBase-a mail manager DBase. Persmaita DataBase for keeping records.

SOUND/MUSIC

#18 Future Sound Demo - Another great sound demo of digitized sound. Includes the wicked witch of OZ, breaking dishes, sea gulls, car crash, ducks, others.

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  □ \*108B Juggler Famous demo that shows the beautiful
- graphics of the Amiga
- if #120 Pictures6 Great Iff and Ham pictures that can be displayed from Workbench with their own icons.

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#### THE TOP 10

- #23 Monopoly Excellent color and graphics in this adaption of the famous board game. Play against computer opponents. This program is definitely of commercial quality a must! Requires 512K.

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- ennanced color and digitized sound. Four find more great games on this disk.

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- #158 Sinking Island II (TWO Disk Set!) By Terry Fike -Great text graphic adventure. 4 map scenes, underground chambers and much more.
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- small businesses and clubs.

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- system of Jupiter.

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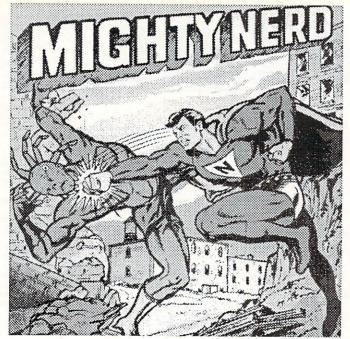
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offer some interesting variations: Classic Marble has 104 pieces on a marble board; Sea Shells gives you 28 shells arranged on a beach; Short Circuit gives you a taste of contemporary Japan with 36 chips arranged on a circuit board; Insanity has 332 pieces. Other boards mercifully allow diagonal moves.

Options allow you to back up one move or preview all possible moves; the Meditate option gives you a rest and lets you review your jumps. You can play a solitaire or two-player game. You can the Insanity board or the Meditate option to load on a 512K A1000.

Kikugi has colorful, Amigaquality graphics. It has stereo digitized sound effects. It has 15 game boards. It's challenging. But Image Tech has made much of little here. All you're really doing is jumping marbles. You can buy games that will let you fly a helicopter, pitch to Babe Ruth, conquer a galaxy, or save a city. Kikugi doesn't have what it takes to keep most people intrigued for very long. Besides, these are frustrating little games.



Hop, skip, and jump to win.

also watch the computer play itself, which is a rather silly option because the computer plays worse than most humans, so you won't glean any useful strategy hints from watching it.

Image Tech recommends a minimum of 512K to run the program, but I couldn't get Unless you have the patience and concentration of a Shinto priest, you are probably going to lose very often. And he who often loses grows impatient and loads another game. (\$39.95, Image Tech, 9276 Adelphi Rd., Suite 102, Adelphi, MD 20783-2029, 301/439-1151. No special requirements.)

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#### By Peter Olafson

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launcher (in lieu of a puck dropping ref), goals at either end of the playfield, and high walls for ricochets. The ball looms up on the screen when it is airborne. You can tackle, too. Against the more powerful computer opponents, however, hanging on to the ball is a challenge. You can play

rious, you might not even notice the floating tiles. Some are money, which you can spend after the final whistle to improve your stats, tamper with your opponent's or bribe officials. (Officials in future sports are not very honest.) Some are power tiles that you can use immediately for tackling, pro-



Choose your team and captain.

against a friend or the computer in elimination tournaments or leagues of up to 100 weeks.

A few elements step in to prevent this from being a futuristic hockey-handball hybrid or a member of the Sports in Hell series. One is the warp tunnel in the arena's side walls, which permits a ball thrown in from one side to come out the other. Less helpful are the bounce domes that repel the ball and appear in various configurations. Often the action is so fast and futection against tackling, freezing the opponent, and so on.

About the only drawback is that the digitized sound of cheering on my occasional goals comes through muffled sometimes. I'm no great fan of sports invented for the computer, but Speedball, an English import, is a pip. What else can I say but WHAM, WHAM, WHAM! (\$39.95, Spotlight Software, distributed by Cinemaware, 4165 Thousand Oaks Blvd., Westlake Village, CA 91362, 805/495-6515. Joystick required.)

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AmigaWorld Tool Chest Submissions Dept. AmigaWorld Magazine 80 Elm St. Peterborough, NH 03458 jections I have so far are the long load times and the blackon-black steering wheel on one of the three available cars.

Grand Prix successfully adapts the technology of Accolade's earlier attempts, Test Drive and Test Drive II: The Duel, to the closed circuit. The dashboards' graphics aren't quite as detailed, but the setup screens have the same glossy look. The screen changes have the same windshield wiper swish. Then, there are the tunnels. Coming out of a tunnel in the middle of the pack is better experienced than described. I only wish there were an echo.

One of the friendlier racing programs around, Grand Prix has no mysterious requester boxes but plenty of options. I especially like the map that indicates your progress and how ing from practice to the full eight-race circuit.

The designers paid great attention to detail. When you blow your engine, you hear a convincing bang and watch billowing black smoke in your rearview mirrors. When you nudge the car in front of you too hard, your hood crumples and he spins out in a full 360. The engine sound is even a little throatier than usual.

The slim manual is thorough, but does not provide much game color. It says the other nine drivers have their own styles, but profiles would be more helpful than the bestto-worst chart.

I finished second in my first race (Brazil), but haven't managed any better than a close sixth on the second (Monaco). At least this time I'm just driving, and not driving myself



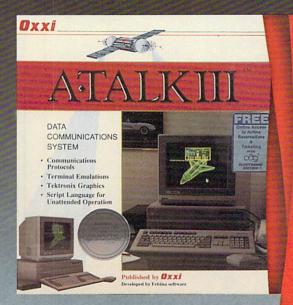
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sharp the approaching turn will be. Pit stops, mercifully, are limited to wheel replacement. You can choose among five difficulty levels from rookie (automatic shifting, sometimes nudgeable cars) to pro (you have to work to make it out of the straightaways) and three types of rac-

crazy. (\$49.95, Accolade, 550 S. Winchester Blvd., Suite 200, San Jose, CA 95128, 408/985-1700. Joystick required.) ■

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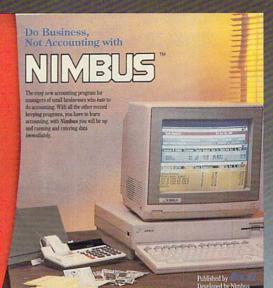
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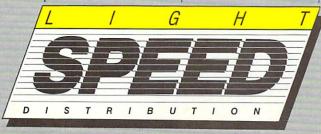
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#### R E V I E W S Continued from p. 18

put status (MIDI or Amiga internal samples), and an offset control that delays the start time of the sequence by a number of measures.

#### THIS OR THAT

Music-X's approach to sequencing is a bit confusing. A sequence can be thought of as one entire musical part extending from the beginning to the end of a song, or as a fragment to be strung end to end with others to form a complete part. It can be triggered by a control sequence, and it can also be a vertical arrangement containing more than one part (for example, you could record drums, bass, piano, and brass parts on separate MIDI channels into one sequence).

Up to 20 sequences can run simultaneously, and in the Track window at the top right of the screen, you can see which are playing at any given time. This display is just for monitoring purposes, though; the only control you have here is the ability to mute a sequence by clicking on its name.

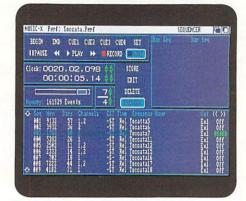
Click Record in the Transport window and the program presents a number of recording options. The choices include Punch-In Manual (which you control with the Return key), Punch-In Auto, Loop mode (which allows you to record multiple passes of a part without restarting the recorder), Mix Down mode (merges a number of sequences into one), and a Count-In setting (which backs the recorder up a specified number of bars before starting to record). While these options can make the recording process convenient, their presentation-in a window that appears every time you select Record, regardless of whether you need to reset your parameters-is inconvenient. A better approach would be to offer them in a pulldown menu.

Once you have made your selections, you can start the recorder either by clicking on "Go" or by playing a note on your controller.

It is unfortunate that the Sequencer page's metronome is in the form of a looped track, as this setup complicates the changing of time signatures. In order to retain an accent on the first beat of each measure, you must program any time-signature changes into the metronome track—otherwise you are stuck with an unaccented metronome.

#### THREE DOWN

The Sequencer screen offers three pulldown menus. The Options menu is the



From the Sequencer page, you can keep tabs on all your tracks.

place to go for sequence manipulation: a Copy Sequence selection duplicates the current sequence and places it in another location, while Merge Sequence combines two sequences into one. Extract Sequence removes MIDI-channelized data, System-Exclusive data, or Music-X events (commands) from a sequence. For example, you could split a sequence containing a bass part on MIDI channel 1 and piano part on channel 2 and copy it to separate sequences, or you could transfer all controller data to another sequence. Erase All Sequences wipes out all sequence data, but leaves everything else intact. Output Channels lets you globally remap MIDI channels: Any data on MIDI channel 1 could be routed to channel 10, for instance,

Items on the Synchronization menu help you sync Music-X to other timingintensive devices. Music-X can slave to MIDI, MIDI Time Code, SMPTE, the Amiga's internal clock, or the Amiga's internal video clock (the chip that controls the monitor's Vertical Blanking Interval generates a timing frequency that is the same as the NTSC standard frame rate for television). A Time Code Offset enables you to set your start time to zero even though it may be starting 20 minutes into the code (SMPTE or MTC). Music-X can also serve as a timing source, generating MIDI sync, MIDI Start and Stop, and Song Position

Pointer. Finally, a Delay option attempts to compensate for older MIDI gear that may not be correctly implemented with Song Position Pointer.

#### THE EDITORIAL DEPARTMENT

You can tweak your sequences in either the graphic (Bar Editor), or text (Event Editor) page.

A good portion of the Bar Editor page is taken up by a Graphic Score window, which displays notes and other MIDI data as bars on a grid, piano-roll style. Running down the left side of the window is a five-octave keyboard that acts as a note reference. An octave slider to the right scrolls the display up and down to show notes that fall in outer octaves, while a scroll bar beneath the window moves the display back and forth in time. Through a pull-down menu, you can determine what types of data (notes, controllers, Music-X events, and so on) are shown on the grid.

The Bar Editor accepts input by either real-time recording (there are Record, Play, Pause, and Stop buttons at the lower left of the screen), step-time recording, or manual placement of notes (via mouse) on the grid. By selecting one of the boxes numbered one through 16 you can determine which MIDI channel the notes will play on, and on the grid, each MIDI channel is represented by a different color.

Along the right side of the screen you will find a list of tools for adding, inserting, moving, and erasing data, and more. The Lock tool removes a selected MIDI channel's data from the grid, so that it is heard but not seen. Select and Mark are two options for partitioning off data for editing. Zoom changes the magnification of the grid, while Snap, a sort of auto-quantizer, is useful for entering new data onto the grid. Quiet silences the sound source when entering new data onto the grid. Scroll determines whether the display moves as sequences play (scrolling in the Sequencer page is great, by the way), while Grid sets the display resolution. The Parameter selection opens a window full of sequenceplayback options, including Play in Context, which determines whether the sequence plays solo or with others. While Play in Context is a nice feature, it would be easier to use if you could trigger it via a gadget.

The Bar Editor's Cut, Copy, and Paste functions let you move groups of data to different locations in time. You can select data using either the Select or Mark tools; a small window below the Graphic Score shows you the beginning and ending points you have selected. When you copy or cut, a line appears to paste the data onto the grid. Position the line and click; if you have chosen the Select tool, the new material will be inserted into the score; if you chose Mark, it will be pasted over existing data. Cut and Paste double as transpose functions: By copying data to a higher or lower position on the grid, you are transposing it.

#### **EVENTUALLY**

There are no global methods for making changes in tempo, time signature, or loop, but you can accomplish these operations on separate pieces using Music-X events—commands that you place into the sequence like any other data.

One global feature Music-X does offer is Quantize, with its array of options such as minimum and maximum threshold, quantization by percentage, velocity scaling, and the ability to determine whether the operation affects a note's start time, duration, or both. Unfortunately, these options do not include the quantization factor (eighth notes, quarter notes, or other); you must return to the grid setting for that.

The Event (text) editor displays sequence data in alpha-numeric format. It has some of the same features as the Bar Editor, but offers very limited control over the display: You can determine only whether durations or note-offs are shown. Keyboard editing is easy—the cursor arrows move you around the screen while the + and — keys change note values. There are two things I do not like about the Event editor, however. Selecting groups of events can be time consuming because you must click each event individually. Also, unnecessary dig-

its clutter up the display. For instance, the measures column in the durations field is taken out to four digits. . .how many events will last 1000 measures?

#### MY BACK PAGES

The Samples page lets you arrange samples in a list, and offers tuning, octave-



Would you like something from the Bar Editor?

shift, and envelope-editing features.

events. MIDI notes can trigger other notes, controller changes, program changes, or Music-X commands. This page is very powerful and has great potential for live interactive performances.

The Filters page lets you change note messages into other event types, filter out, thin out, and rechannel selected data types, and to echo data to the internal voices or back out through MIDI. There are 16 filters in all (one for each MIDI channel) and you can save settings for each in a separate performance file.

The Librarian page works with any MIDI device capable of sending and receiving system-exclusive information. To set it up, you must know the SySex protocol that your particular MIDI machine requires for this kind of communication. If you don't know system exclusive and cannot find your protocol on a bulletin board, you will have to depend on a SySex fanatic to write one for you.

#### FLIPPED OUT

Music-X is both powerful and comprehensive. Because its design is open- ▶

In the Keymap page, you can use a controller keyboard to call up other Music-X is both hensive. Because



Circle 90 on Reader Service card.

ended, it has the potential to be even more powerful. The timing is solid and the many synchronization options are professional. Music-X's manual is clear and well written. The Librarian, Keymaps, and Filters pages are clever and very useful, and the graphic editing is great, but the front end of Music-X, the sequencer, is in many ways needlessly complicated. It works fine, but the extra steps required for routine operations give it a cumbersome feel. And while having to use Music-X events for such things as tempo and meter changes may be fine for some applications, a program of this caliber should have global controls as well. This is not to say that Music-X cannot get the job done-there is more than enough here to work with. I just hope that MicroIllusions will forego esoteric functions on future updates in favor of a more elegant front end.

#### Music-X

MicroIllusions

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### ONLINE! PLATINUM EDITION

Limber's the word.

#### By Sheldon Leemon

THE VARIOUS COMMERCIAL information services and private bulletin boards accessible to Amiga users employ many different transfer protocols for insuring that data is received properly. On the PeopleLink network, for instance, Windowed Xmodem is the preferred method for receiving, while on GEnie, I use Ymodem-batch to transfer several files at once. On CompuServe, I prefer the proprietary B or Quick B protocol, on Bix I usually use Xmodem 1K, and on many bulletin boards, Zmodem is the protocol of choice.

Online! Platinum by Micro-Systems Software is one of the only Amiga termi-

nal programs that supports all of these formats, as well as Xmodem and Xmodem CRC, Kermit, and its own Sadie protocol. (Sadie allows you to transfer files both ways and key in text, or "chat," all at the same time, but it is supported only by other Micro-Systems Software products). Its wide-ranging protocol support is not the only reason I like Online! Platinum, though. Its many other features, including a comprehensive script language, macro-key capability, and ARexx support, make it the first Amiga terminal program I've found that meets all of my basic telecommunications needs.

#### EASY TO SAY

While several other Amiga terminal programs include script languages that enable you to automatically execute a command sequence whenever a specified number is dialed, most of these are limited to a few commands that log you on (enter your account number and password) to a remote system. Online! Platinum, on the other hand, understands a much more extensive script language, one very similar to that used by the popular MS-DOS terminal program Crosstalk. Online!'s script language includes most of the features of a true programming language, such as a conditional IF statement, a JUMP command, and a WHEN command that lets you specify a response whenever a certain condition occurs. In addition, its powerful MENU command allows you to choose any pulldown menu item from a script. For example, to select the "2400" sub-item of the Baud selection on the COM menu, you would use the statement "MENU COM BAUD 2400". Because virtually all of the program's features are accessible through pull-down menus, they are also accessible from the script language.

Just because the script language is powerful, however, does not mean it is complicated. Online!'s special Learn mode allows you to create log-on scripts automatically. As you respond to prompts from the remote system, the program notes the exchange and writes a script that responds in exactly the same way to that series of prompts.

#### BEND AND STRETCH

Two other programming features further maximize Online! Platinum's flexibility. First is its extraordinarily powerful macro-key capability, which not only allows you to set up text strings that can be entered at the touch of key, but also lets you program Online!'s scripts and macros to call each other. This means that you can trigger any macro key from a script, and more importantly, that you can execute any script command from a macro key. Set the F10 key to "{script} MENU FILE RECEIVE...'RAM: Temp'," for example, and then, when you are ready to start downloading, all you have to do is press F10.

Perhaps the most important programming feature, however, is Online! Platinum's support of ARexx, an interpreted programming language that makes it easy for ARexx-equipped multitasking programs to communicate with one another. When you start up Online!, it opens a message port (which is, incidentally, named ONLINE-1, not MSS-ON-LINE-1 as documented) that can receive requests from other programs. Other applications can use this port to send any script command to Online!, giving them complete control of the program. Likewise, Online! can send a message to any other ARexx-supported program using the ARexx script command. This kind of flexibility is what ARexx was designed for. Using Online! and Superbase Professional (Precision) together, for instance, you could update your stock portfolio easily: Have an ARexx program call up your information service via Online!, manipulate the text that comes in from the modem, and store the relevant information directly into a database.

About the only feature I can think of that is missing from Online! is one to enable ARexx programs to get the address of Online!'s capture buffer. With such a feature, ARexx could manipulate the data in the buffer directly. As currently implemented, the calling program uses an ARexx "get" command to receive text from the modem one character or one line at a time.

#### TO BE. . . WHAT NOT TO SEE

Among the program's host of other important features is its ability to emulate a number of popular terminals, such as the Tektronix 4010, and the DEC VT 52, VT-100, and VT-102. Online! Platinum

lets you choose from many different screen configurations (overscan or non-overscan, interlaced or non-interlaced, two to eight colors, with or without window borders and title bars, and more) and text fonts (IBM5, IBM8, Topaz8, Topaz9, or Topaz11). It offers a chat window for online conferences, and lets you toggle the printer on and off.

Each 40-number phone directory allows you to select a sequence of numbers to call, so that if one is busy, the next on the list is dialed automatically (or the same number is redialed until a connection is made). The program automatically retains an 8K review buffer so you can take another look at text that was scrolled by too quickly.

Online! Platinum is one of the first terminal programs to support multiple serial devices directly. I was able to use Online! Platinum with both the Supra 2400zi internal modem and ASDG's Dual Serial Board without altering the program in any way (alterations are necessary with most other programs). The only incompatibility I found was a mysterious failure when uploading files to CompuServe using the B protocol with the Supra internal modem.

#### ONE THING AT A TIME

Online! Platinum does have a few draw-backs. For one thing, the program is huge—the code alone consumes almost 256K. If you have a 512K machine, don't plan on doing any word processing

while you are downloading files. Even with a lot of memory, the program does not multitask well. When it is downloading a file, it slows other tasks to a greater degree than most terminal programs. Online! doesn't even multitask well within itself: When you open the review buffer, your terminal window freezes and becomes inoperative.

The user interface leaves something to be desired as well. For example, the translation tables, which let you replace any character with any other character (good for filtering out non-text characters), consist of 256 hexadecimal numbers. To change a number, you must click on each digit with the mouse; this adds one to the number. In order to filter out the high bit of the top 128 characters, therefore, you need to click eight times on each of 128 digits-1024 clicks in all. If you inadvertently pass the number you want, you must click 15 times to get back to it. Obviously, a "strip high bits" or "filter non-printing" button would be a big help here. Also, each phone entry saves many of the current menu settings, without any visual indication of what the settings are. An expanded phone book edit screen, showing all of relevant settings, would go a long way towards eliminating confusion.

Nontheless, Online! Platinum is the Amiga's most professional and polished terminal program. It includes important extra touches, including an excellent hard-drive installation program, a readable and informative manual, and good telephone support. And finally, I applaud Micro-Systems Software for replacing the Archive menu selection with the more standard Open and Save options. With its exhaustive array of features and programming capabilities, Online! Platinum should meet the needs of even the most demanding user.

Online! Platinum Edition Micro-Systems Software 12798 W. Forest Hills Blvd. Suite 202 W. Palm Beach, FL 33414 407/790-0770 \$99.95 No special requirements.

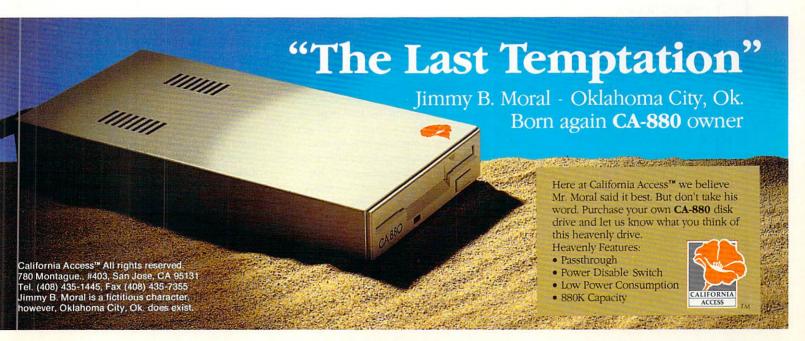
#### **M2DEBUG**

Make Benchmark bugs boogie.

#### By David T. McClellan

SAT DOWN TONIGHT, plugged in 600 lines of Modula-2 code, ran it, and the program went south—without even a beep goodbye. Now I get to plug in 45 WriteString(), WriteInt(), and Write-Card() calls and try to figure out what it's doing.

But wait! Here's M2Debug, Avant-Garde's full-featured symbolic debugger companion for their Benchmark: Mod-







Circle 230 on Reader Service card.

ula-2 compiler. A new version of the original compiler, a source-code tab-to-blank tool, and a tutorial are included with the package. As with the other Benchmark tools, this debugger is customizable and does its best to run on 512K floppy-based Amigas.

M2Debug can put several windows on your screen, including ones for source code, variables and values, memory (hex, decimal, and so on), registers, procedure call (stack) traceback, disassembled source, breakpoints, modules, execution (stepping/running), and other information. You can resize each of the windows individually, and scroll through them both horizontally and vertically (for several, you must scroll both ways). Most of the windows allow you to make a selection (a line of text or a variable, for instance) with the mouse, and with many, you can switch to another window for the operation. For example, you can select a line in the symbolic variable window, click the Destination gadget above the memory window's scroll bar, and view the variable in hex. Ditto for the source code and disassembly windows.

#### STEP OUT AND BREAKDANCE

M2Debug knows how to single step, slow-run, and run your modules at normal speed, and can set several kinds of breakpoints. You can single step at both the Modula-2 and 68000 assembly-language levels, so you can get very close to your code. Single-step flavors include stepping into procedure calls (i.e., single stepping each line of a called procedure) and stepping over them (treating the whole procedure call as one step).

The Run Slowly option is a unique and useful cross between single stepping and littering the code with breakpoints to execute at full speed. Here, M2Debug displays each line as it executes, scrolling the source text slowly. You can interrupt the process at any time by hitting the F5 key.

You can set temporary breakpoints (whereby the program runs to the breakpoint, stops executing, and clears the breakpoint), permanent breakpoints (which control will always stop at, such as in a loop or procedure), and the limited repeat variety, wherein the debugger does not stop until it has hit the breakpoint a given number of times. While you cannot set breakpoints that have debugger commands attached as some other debuggers allow, with

M2Debug's multiple tracking windows you don't really need to. When you set a breakpoint on a line that modifies a variable, that variable will generally be in the symbolic data window.

A more complicated function than is immediately apparent, the Symbolic Data window lets you look at variables. Suppose you have a record or array containing components that are themselves records. M2Debug uses an "increasing level of detail" approach to accommodate all your data without scrolling 90% of it off the screen. Click on a record, and the values of atomic fields-numbers or characters-are displayed beside their corresponding field names. The size of every field that is a record is displayed beside the field's name; click on the name and that record-field expands to fill the window. You can move up and down levels of detail this way to see whole data structures.

Global variables are displayed as you enter the program and stop on the first line; you can examine local procedure variables when control enters their procedure. Also, when in a low-level procedure, you can move up the procedure call stack to examine the variables of its caller, and its caller's caller, and so on. Lastly, you can set the values of atomic variables and fields with the F9 key after selecting the variable/field. Strings are set one character at a time.

#### DOWN AND DIRTY

M2Debug operates either at Modula-2 source level or the assembly-language bits-and-bytes level, and can intermix the two. Besides examining variables in symbolic form, you can display them or other chunks of memory in hexadecimal, octal, binary, or decimal format, or as characters, and do memory fills this way, as well. The debugger also lets you view and set the 68000 registers, plus you can disassemble Modula-2 source lines and single-step through the assembly. This capacity is not something you will need often, but it is useful. M2Debug can also report which machine resources the program has tied up-open and active devices, system libraries, message ports, resources, tasks, overall memory usage, and contents of directories (via a directory lister). Except for the directory window, you cannot modify the displays, but

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they are helpful as is and provide a warm, fuzzy feeling.

#### YOU CONFIGURE IT OUT?

A built-in configuration section, available from the debugger's main menu, lets you create custom startup patterns: which windows open initially, what language it runs in, and various other maxima. You can save the options in a file called M2Debug.config, which is read at startup time from either the current directory or the S: directory. You can also save other configuration files and load them while running the debugger.

M2Debug is the kind of dog you'll want a big back yard for. I ran it in about 800K of available memory and it did just fine on a medium-size program, but I believe it might get surly in 512K. Avant-Garde Software provides it in both a 84K packed form, which saves disk space, and a 181K unpacked form. Running on a two-floppy system is awkward. with one disk for the compiler, linker, and libraries, and the other for your source. I transferred the debugger to my RAM disk; a hard disk would be better.

A hot key lets you switch from the program to the debugger and back. I had a few problems with it, and sometimes had to switch and click on a few windows to get the debugger in gear. It never hung, though, so I can't grumble much. The manual it contains bits of information not obvious from running the software.

Although I generally think through my designs carefully, sketch out the program and code, and test in chunks, I still end up needing a good debugger more often than I like to admit. M2Debug is a good debugger, and it makes Modula-2 programming easier. I like it.

M2Debug

Avant-Garde Software

2213 Woodburn Plano, TX 75075 214/964-0260 \$149.95

Benchmark: Modula-2 compiler required.

#### AMI...ALIGNMENT SYSTEM

Get in the groove.

#### By Tim Walsh

AS A RULE, floppy-disk drives are noted for their Maytag-like durability. After a few years of daily grunt work, however, drive-head misalignment can occur, resulting in the drive's inability to read one or more of the 80 tracks on a disk. Like a firecracker with a defective fuse, misalignment is potentially dangerous: Entire disks can become corrupted every time data is saved to them.

With Free Spirit Software's Ami. . . Alignment System and a screwdriver, you may be able to save yourself an expensive visit to the repair center by realigning drives yourself. (Keep in mind that making the repair yourself may invalidate your drive's warranty.) At the very least, it will help you to rule out misalignment as the source of your difficulties.

#### A LOOK INSIDE

The boot disk contains a variety of utilities, including one for installing Ami. . . Alignment onto a hard disk. Double-click the HD Install icon and enter a path name including a directory; the program does the rest.

Disk number two, the Calibration disk, contains the Align Data file, which is used for drive-alignment and speed checking. You will need the original disk for testing purposes; duplicates may provide imprecise feedback.

The Align program identifies misalignment and times your drive's motor speed. Start Align from either the Workbench or the CLI and a high-tech control panel, with buttons for choosing drives DF0: through DF3:, appears. With the Calibration disk in the selected drive, you can begin testing.

Alignment checking can be done manually (by clicking the appropriate drive button, selecting Manual mode, and stepping through the tracks individually) or automatically. Either way, the Align control panel reports the status of each track as it is tested. If it signals a prob-▶

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lem, follow the manual's instructions for drive disassembly. The manual gives descriptions of each process. It shows you how to access the stepper motors of Commodore Amiga disk drives (both internal and external) and two third-party drives, the M.A.S.T. and the AIR. As you adjust the ailing unit's stepper motor with a screwdriver, the Align program retests automatically and provides onscreen feedback. Tweak the motor until the program reports satisfactory results.

The Align program's Speed Test gadget summons a real-time digital readout of the rpm (revolutions per minute) on your choice of drives. Because accelerated machines normally cause both external and internal disk drives to spin a bit faster, you must power up in 68000 mode for accurate results.

Like a high-speed phonograph, a properly-timed drive spins floppy disks at a given rate—300 rpm in the Amiga's case—with very little deviation. If the speed test indicates that your drive is turning too slowly, you will need to take the unit to a service center for a cleaning or other service. Slightly faster spinning is nothing to be concerned with.

#### READ AND WRITE RIGHT

The Drive Performance Function test. which rates track integrity and read and write performance, requires you to place a blank disk in the drive. Here, the program clocks the time needed to write a file to the work disk, then measures the time it takes to read the file. Deviation from a standard 12,000 bytes per seconds for reading and 5000 bytes per second for writing on each track indicates a potential alignment problem. Read and write times on my drive came in at just about 350 bytes per second higher than these standards. Above-standard ratings are not problematic, but a drive that processes fewer bytes per second than the standard is either misaligned or has a more serious problem.

The Ami...Alignment System takes advantage of multitasking, and from the control panel you can toggle between the program and the Workbench screen. A Print option puts your test results in black and white, while a sound option provides eerie sound effects.

The UnStick programs, represented by four icons (UnStickDF0 through UnStickDF3) tackle the task of "unsticking" drives plagued by intermittent stopping of the read/write heads at track 0.

Ami...Alignment helped me align an A1010 drive that regularly corrupted disks during save operations. Now I'm back to routinely saving important files on that drive. That's the best testimony I could give any product.

Ami...Alignment System Free Spirit Software PO Box 128 Kutztown, PA 19530 215/683-5609 \$49.95 No special requirements.

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By Louis R. Wallace

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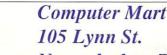
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All I.C.E. calculators run from both the CLI and Workbench. From Workbench, Install works behind the scenes: from the CLI you must specify the source disk and directory of the Install command and the calculator file. I.C.E. is non-copy-protected and can be copied to both floppy and hard disks; you can easily add calculators to your startup-sequence and activate them on boot up.

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#### FINDEX V

As you like it.

By Loren Lovhaug

THE ALLURE OF computerized data management springs from the power it gives you to enter, store, and retrieve data quickly and easily. Findex V attempts to achieve this goal through a free-form approach. Instead of entering data into defined fields of given sizes and types, you key it onto an 80-character by 60-line page in any format you desire. In fact, your data's format can vary from page to page.

To recover data from Findex, you simply specify a word or group of characters. Findex searches the pages for a non-case-sensitive match. Findex can also do criteria searches based on the Boolean logic and comparison operators (AND, NOT, OR, <>, and so on). Because of Findex's free-form nature, these searches are slower and generally less powerful than the sophisticated fieldbased query facilities of other Amiga database programs. While its line-search option speeds the process by scanning only designated lines on each page, Findex is still the slowest commercial Amiga database I have used. The program is also limited by its provision for holding all records in memory and its fixed buffer space (approximately 256K). These factors indicate that Findex is best

suited for casual, limited, or non-traditional applications.

#### SHAPE IT UP

Findex V's programmable forms-generation facility lets you create customized letters, invoice forms, and so on. To set up a form, you enter text as usual and then insert bracketed commands. Commands can copy data from a record line onto the form, accept user input at specific locations, perform very primitive looping, retrieve pages sequentially either forward or backward, insert the current date, perform limited totalling, and control printer attributes by sending non-printing ASCII codes directly to a printer. While I applaud the programmability, Findex's embedded-command approach is cumbersome and far less useful than more traditional methods.

When you invoke Findex's sort mechanism, the program asks you to declare a single line on your page as the sort criterion. This means that multilevel sorts are unwieldy. For instance, to sort by zip code, last name, and first name, in that order, you would have to make certain that one line within every record con-

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tained a zip code, last name, and first name—in that order. Setting each record up this way takes a great deal of effort, and offsets the benefits of the free-form structure.

As a sort is performed, all record pages are re-sequenced. The only method for maintaining alternate record sequences is to save the entire file under a different name after every sort, and then manually update all as needed.

#### PORT IN A STORM

Findex V was originally developed for Timex/Sinclair microcomputers and then was ported to MS-DOS and Atari ST systems. Finally, the software was ported to the Amiga. The manual, however, was not. It describes how to use Findex on Atari ST and MS-DOS machines, and includes an insert of "special instructions for Amiga versions." Although the program functions almost identically to the MS-DOS version, there is no excuse for not producing an Amiga manual.

Like the manual, the program disregards the Amiga environment. It boots on the Workbench screen and does not provide front, back, or window-sizing

gadgets. Although Findex does not preclude multitasking, without such gadgets, you can access only applications that use custom screens, by flipping through them with the left-Amiga M and left-Amiga N key combinations.

Findex V's heritage also affects its command interface adversely. The program is controlled through a series of four-letter mnemonic commands. You can type these sequences in at the command prompt or, in one of the few conciliations to the Amiga environment, you can click on the commands listed in a terse help window. While this mouse support may be a step toward Intuition, it is clumsy to use. Only nine of the 27 commands are displayed in the help window at a time, and once you have clicked on a command, you must return to the keyboard to select a suboption.

The program's Record/Forms editor also has limited mouse support. While you can place the cursor anywhere on the screen with the mouse, all other operations—including natural candidates for mouse support (such as cut and paste)—require that you use the keyboard.

#### ROLL THE CREDITS

The Formatted-Data-Entry mode, which allows Findex to emulate a field-oriented database, is useful for applications not suited to the free-form environment. Another welcome touch is the definable keyboard tokens (macros) option. With it, you can assign up to 16 characters to keys A through P, and later recall the characters by pressing ALT and the appropriate letter keys.

I wish Findex V's data-management prowess overshadowed its lack of attention to the Amiga environment, but it doesn't. Though the program functions adequately, it does not outperform its competitors in terms of speed, power, flexibility, or ease of use. And because other packages can mimic its free-form nature, I can find no compelling reason to recommend Findex V.

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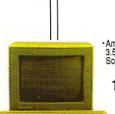
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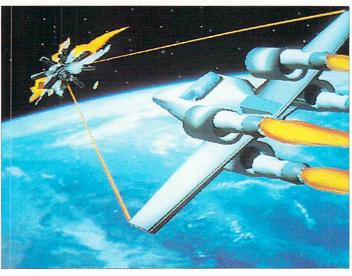
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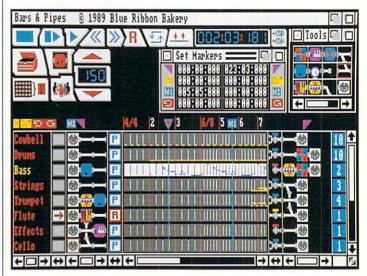
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### **CARRYING TUNES**

BARS & PIPES, an object-oriented musical composition system, helps you guide your musical input from conception to performance. The package consists of four elements. Within the Pipeline module, you arrange pipe-and-valve graphics (each pipeline represents one track) to determine the flow of your input. In the Toolbox, you will find icons

each of two MIDI inputs, MIDI merging, two independent processors, universal-channel changing, event filtering, selectable auxiliary MIDI output, and programmable battery-backed memory. Get the details from Future Music, Box 1090, Reno, NV 89504, 702/826-6434. Reader service number 515.

A "dynamic riff sequencer,"



Musical plumbing.

for a note splitter, transposer, and other tools. Click these icons and place them on individual pipes in any order to modify the information that flows through them. You can record any number of tracks in the Sequencer, and then fine tune your scores with the Editor. You can edit key, rhythm, and chord-change information for algorithmic compositions and hear each note as you alter it. Call Blue Ribbon Bakery, 1248 Clairmont Rd., Suite 3D, Atlanta, GA 30030, 404/377-1514. Reader service number 512.

For musicians with MIDI connection problems and limited space and funds, the compact **Pelican MIDI Processor** (\$149) might be a viable solution. The unit features a channel and event-processor for

Hyperchord lets you manipulate sequences of 40 notes or less (riffs) by varying rhythm, pitch, and order in real time. In Design mode, you can create riffs and variations of them using functions such as smear, rotate, weave, reverse, and mix. Plat mode lets you improvise and loop riffs in the bank provided. To create larger musical movements, simply string your sequences together.

On the lighter side, **Pix-ound** provides an unusual diversion—a musical screen interpreter. Load any graphic into the program, and Pix-ound translates the red, green, and blue content of each pixel into chords. Then, simply move your mouse cursor

across the screen to hear what you see. Both Pixound and Hyperchord use MIDI in addition to the Amiga's internal voices. For artistic motivation, call Hologramophone Research, 331 E. 14th St., Suite 4B, New York, NY 10009, 212/529-8845. Reader service number 513.

### WITH DESIGN IN MIND

THE ORIGINAL developer of X-CAD, Cadvision International, regained control of the product and has now produced a streamlined version. In addition to a revised interface, X-CAD Designer (\$149.95) features architectural, electrical, electronic, or mechanical symbol libraries. External file formats supported include AutoCAD DXF, IFF, and Aegis Draw Plus. To get back to the drawing board, contact American Software Distributors, RR 1 Box 290, Bldg. 30, Urbana, IL 61801, 217/643-2050, or in the UK: Cadvision International, London, England, 1-602-2627. Reader service number 506.

DataPlot lets you turn ordinary numeric data into graphs of various sizes. The program accepts ASCII files generated by other programs and plots them onto your screen or, with its print option, onto paper. You can label your charts with scale information and other text in file as text strings. Bytes and Bullets can fill you in on details: Rt. 3 Box 3532, Manchester, TN 37355, 615/596-2077. Reader service number 507.

### **PERIODICALS**

GETTING YOU INTO print via desktop publishing is **Saxon Publisher's** intent with features like professional four-color separations, bitmapped textures on text, and structured drawings. For \$445 you get EPS support, vertical justification, and drop caps. If this package suits your style, contact Saxon Industries, 14 Rockcress Gardens, Nepean, Ontario, Canada, K2G 5A8, 613/226-2355. *Reader service number 502*.

Professional Page V1.3 (\$395 US), the latest version of Gold Disk's desktop-publishing package, includes Compugraphic outline-font technology supporting dot matrix, inkjet, and LaserJet compatible printers. The program's proprietary font-caching scheme allows on-screen character representations at any point size.

In addition, Gold Disk is offering two-supplementary products both retailing at \$59.95 for use with Pro Page. The Professional Page Templates and Design Guide contains over 50 configured templates on disk and a manual with design and layout tips. Preset type specifications include typeface, size, style, justification, and text runaround. The Structured ClipArt package includes graphics for a variety of topics: sports, holidays, maps, food, and basic symbols. For fullpage coverage, contact Gold Disk, PO Box 789, Streetsville, Mississauga, Ontario, Canada, L5M 2C2. Reader service number 503.

# MOZART NEVER HAD IT THIS GOOD!

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through the Pipeline. Explore new horizons with such Tools as the keyboard splitter, event filter, randomizer, chord substituter, inverter, transposer, phrase-shaper, harmony generator, counterpointer and quantizer, just to name a few. Or, invent your own macrotools with Bars&Pipes, Create-a-Tool feature. Because Bars&Pipes is an open-ended system, there's no limit to what you can do as new tools become available.



Bars & Pipes, Sequencer has no limit to the number of tracks you can record. Simply drag your tools

of choice onto the *Pipeline*, tickle the ivories (or plastics as the case may be) and presto-change-o, a star is born! Features include: Global cut, copy and paste commands; Auto-locate registers; Punch in and out; Looped mode recording; Global display of music on all tracks; A-B-A global song construction and editing; High resolution timing (192 clicks

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# HORS D'OEUVRES

An assortment of tips and techniques

from fellow Amiga users.

# Compiled by Tim Walsh

SPELL CHECKING

IF YOU USE WordPerfect with one or more megabytes of RAM, you're in for a treat the next time you want to spell

check one of your documents.

and tear on your disk drive.

WORDPERFECT

The Amiga version of WordPerfect is painstakingly slow when performing a spell check, simply because the computer has to access the disk drive to check the spelling of each word. Not only is this inefficient, but it also puts a lot of wear

Here's a way to copy the spelling checker to RAM to make this process lightning fast. First, enter the following script file on your favorite text editor, such as ED or TextED Plus:

CD DF0:
ECHO "Copying LEX.WP to RAM:"
COPY SPELL.THES:LEX.WP
to RAM:
Path RAM:
CD DF0:
ECHO "Spell checker is now in RAM!"

For demonstration purposes, save this file to disk with the filename RAM-SPELL. When ready, activate it from the CLI with the following command:

#### EXECUTE RAMSPELL

(Since the LEX.WP is quite large (290K), it takes a while to copy to RAM.) Now, activate WordPerfect, load the document to be spell checked, and select the "Spell. . ." option from the Special menu. At the "Enter path to dictionary file:" prompt, enter RAM:LEX.WP and the spell-checking process will proceed as it normally does, except in a fraction of the time and with no floppy-disk access.

When you're finished, the spell checker can be removed from memory by entering DELETE RAM:LEX.WP.

The only limitation to this process is that it is not a good idea to run WordPerfect, its accompanying Print program, and my RAM spell checker all at once. Not only does it create unnecessary overhead, but insufficient-memory errors could occur on systems equipped with 1.5MB or less RAM.

Mark Gillman Winnipeg, Manitoba, Canada

# SAVING PRECIOUS MEMORY

MINIMIZING MEMORY USAGE is essential when running word processors and other application programs on A500s and A1000s equipped with only 512K. Programs such as excellence! and PageStream won't print on 512K machines. Likewise, even Amigas equipped with one megabyte of RAM occasionally crash or get bogged down when multitasking on memory-intensive programs.

One simple solution is to run your applications with Workbench deactivated, which saves 16880 and 13480 bytes of Fast and Chip memory, respectively. This is enough additional free memory to print with both excellence! and Page-Stream on 512K machines.

Eliminate Workbench by holding down the CTRL and D keys simultaneously during power-up or after a reset; this will bring up a \*\*BREAK - CLI window. At the prompt, enter CD DF0: or the appropriate drive name that holds the file to be activated and press Return. Next, enter STACK 16000 at the next prompt and press Return again. Finally, enter the name of the file to be activated (e.g., ATALK3, EXCELLENCE!, WP, etc.). The only disadvantage to this process is that all other applications also need to be activated from the CLI until

you bring Workbench back to life by either resetting the computer or running the startup-sequence from the CLI.

> K. W. Spry Huntersville, NC

### AUTOMATIC AMIGA BASIC BACKUP

IF YOU'VE EVER lost an Amiga Basic program because you forgot to back it up, here's some unique AmigaDOS 1.3-compatible program-protection insurance. Just add the following lines to the beginning of your BASIC code:

version\$ = MID\$(STR\$(CLNG (TIMER)),2)
PRINT "Saving as rad:BACKUP"; version\$;
SAVE "rad:backup" + version\$
PRINT "...done!"
'the program continues here

The TIMER command in the first line assigns the filename an incrementing number, to prevent erasing earlier versions of the program already saved. RAD is used in place of RAM as the destination device, because its contents are not as volatile and can survive a warm reboot, which RAM contents cannot.

Mark Kelly

Swan Hill, Victoria, Australia

Editor's note: To configure a RAD disk with the default AmigaDOS 1.3 filename of RAMBO, execute the following from a CLI:

MOUNT RAD:

IF NOT EXISTS RAD:c

MAKEDIR RAD:c

COPY C:COPY TO RAD:c

COPY C:DIR TO RAD:c

ENDIF

PATH ADD RAD:c

■

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# SCIENTIFIC GRAPHING

Q: I have been looking for a scientifically oriented graphing program for quite some time, but I have failed so far. What I need is data graphs, best fit curves, linear regression, and so on. Have you heard of anything like that for the Amiga?

Benis Babusis Downey, CA

A: While I can't think of anything specific, a couple of "maybes" come to mind. One that I know of is Descartes! (Mindware International, 110 Dunlop St. W., Barrie, Ontario L4M 5R3, Canada). This is a scientific, programmable graphing package with a fair number of math functions, including some calculus features, such as derivatives. You can create graphs of your data sets and save them as IFF images that can be used in paint or desktop-publishing programs.

Another possibility is I.C.E. (King Publishing, 921-32nd St., Sioux City, IA 51104), which creates custom programmable calculators with a built-in BASIC-like language that supports some data graphing. Besides general math and trig features, the programming language has commands like CORL (returns correlation coefficient), MEAN and STANDARD DEVIATION. Using I.C.E., you

#### By Louis R. Wallace

could create dedicated calculators for your needs.

### MISPLACED FORMAT

Q: I have a problem using the FORMAT command from the CLI. Under 1.2, you could type:

FORMAT DRIVE DF1: NAME DISKNAME

and it would format a disk in drive 1. Whenever I try to use FORMAT under 1.3, I get an "unknown command" error message. The weird part is that it works fine from the Workbench using the Initialize option. Was the CLI FORMAT command removed in 1.3?

S. Whitehall Akron, OH

A: You can still use FORMAT from the CLI in 1.3, but the command was moved from the C: directory to the System directory. Just type:

SYS:SYSTEM/FORMAT DRIVE DF1: NAME DISKNAME

and the CLI will get the FOR-MAT command from the System drawer on whatever drive you are using as your Workbench.

# QUICK CAN BE SLOW

Q: Has MicroSoft ever released an Amiga version of their QuickC? I saw it listed in the AmigaWorld Software Buyer's Guide (December '88), but so far I haven't been able to buy it.

J. Elam Dunwoody, GA

**A:** To date, the only Amiga product that MicroSoft has released is Amiga Basic. I have heard of possible ports of some MicroSoft products to the Amiga, but so far these remain merely rumors.

### BETTER BRIDGES

Q: I have an A2000HD with an A2088 Bridgeboard. Can I boot MS-DOS directly from my hard disk? Will Commodore upgrade the PCWindows software to handle EGA graphics?

P. Heinrich Eugene, OR

A: When booting with the Bridgeboard you can bypass your MS-DOS floppy disk. The trick is to use the /s option with the FORMAT command when you format your MS-DOS hard disk. This will install the proper MS-DOS files on the disk, making the hard disk bootable. After formatting, copy all your MS-DOS files to the hard disk so they will be available on bootup.

As for EGA compatibility, I haven't heard of any plans to upgrade the Bridgeboard to support EGA display modes via the Amiga, and I doubt we will see such an upgrade any time soon. For now, you can

install an EGA graphics card in one of the A2000's PC slots and connect an EGA compatible monitor to the card. Such a two-monitor system has the advantage of the Bridgeboard display updating at full speed.

## POPULATION GROWTH

Q: I want to upgrade my A500's memory and have seen ads for 1.5 megabyte boards with 0K. Would I have to buy the RAM for such a board, or would the board already have the 1.5 megabytes so I wouldn't have to add any RAM?

V. Nhan Lam Arncliffe, Australia

A: The 0K means the board has no RAM on it; you will have to buy the chips yourself and plug them into the board. Boards are sold empty so that the customer can shop around for the best RAM price.

### HIT A GUSHER

Q: In reference to "Gone Dry" (Help Key, September '89, p. 92), you can order ink cartridges for the Canon PJ1080A from Canon USA. Call the main office at 516/488-6700 and ask where the nearest Canon office is in your area.

J. Tice Oxford, AL

A: Thanks Jerry! ■

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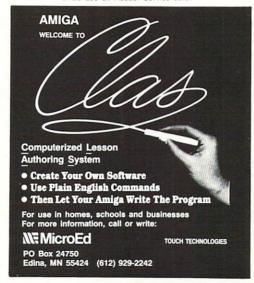
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| 76    | 81  | 86  | 91  | 96  | 276 | 281 | 286 | 291 | 296 | 476 | 481 | 486 | 491 | 496 |  |
| 77    | 82  | 87  | 92  | 97  | 277 | 282 | 287 | 292 | 297 | 477 | 482 | 487 | 492 | 497 |  |
| 78    | 83  | 88  | 93  | 96  | 278 | 283 | 288 | 293 | 298 | 478 | 483 | 488 | 493 | 498 |  |
| 79    | 84  | 89  | 94  | 99  | 279 | 284 | 289 | 294 | 299 | 479 | 484 | 489 | 494 | 499 |  |
| 80    | 85  | 90  | 95  | 100 | 280 | 285 | 290 | 295 | 300 | 480 | 485 | 490 | 495 | 500 |  |
| 101   | 106 | 111 | 116 | 121 | 301 | 306 | 311 | 316 | 321 | 501 | 506 | 511 | 516 | 521 |  |
| 102   | 107 | 112 | 117 | 122 | 302 | 307 | 312 | 317 | 322 | 502 | 507 | 512 | 517 | 522 |  |
| 103   | 106 | 113 | 118 | 123 | 303 | 308 | 313 | 318 | 323 | 503 | 508 | 513 | 518 | 523 |  |
| 104   | 109 | 114 | 119 | 124 | 304 | 309 | 314 | 319 | 324 | 504 | 509 | 514 | 519 | 524 |  |
| 105   | 110 | 115 | 120 | 125 | 305 | 310 | 315 | 320 | 325 | 505 | 510 | 515 | 520 | 525 |  |
| 126   | 131 | 136 | 141 | 146 | 326 | 331 | 336 | 341 | 346 | 526 | 531 | 536 | 541 | 546 |  |
| 127   | 132 | 137 | 142 | 147 | 327 | 332 | 337 | 342 | 347 | 527 | 532 | 537 | 542 | 547 |  |
| 128   | 133 | 138 | 143 | 148 | 328 | 333 | 338 | 343 | 348 | 528 | 533 | 538 | 543 | 548 |  |
| 129   | 134 | 139 | 144 | 149 | 329 | 334 | 339 | 344 | 349 | 529 | 534 | 539 | 544 | 549 |  |
| 130   | 135 | 140 | 145 | 150 | 330 | 335 | 340 | 345 | 350 | 530 | 535 | 540 | 545 | 550 |  |
| 151   | 156 | 161 | 166 | 171 | 351 | 356 | 361 | 366 | 371 | 551 | 556 | 561 | 566 | 571 |  |
| 152   | 157 | 162 | 167 | 172 | 352 | 357 | 362 | 367 | 372 | 552 | 557 | 562 | 567 | 572 |  |
| 153   | 158 | 163 | 168 | 173 | 353 | 358 | 363 | 368 | 373 | 553 | 558 | 563 | 568 | 573 |  |
| 154   | 159 | 164 | 169 | 174 | 354 | 359 | 364 | 369 | 374 | 554 | 559 | 564 | 569 | 574 |  |
| 155   | 160 | 165 | 170 | 175 | 355 | 360 | 365 | 370 | 375 | 555 | 560 | 565 | 570 | 575 |  |
| 176   | 181 | 186 | 191 | 196 | 376 | 381 | 386 | 391 | 396 | 576 | 581 | 586 | 591 | 596 |  |
| 177   | 182 | 187 | 192 | 197 | 377 | 382 | 387 | 392 | 397 | 577 | 582 | 587 | 592 | 597 |  |
| 178   | 183 | 188 | 193 | 198 | 378 | 383 | 388 | 393 | 398 | 578 | 583 | 588 | 593 | 598 |  |
| 4 700 | 184 | 189 | 194 | 199 | 379 | 384 | 389 | 394 | 399 | 579 | 584 | 589 | 594 | 599 |  |
| 179   | 185 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |

| ☐ Mr.  |                |
|--------|----------------|
| ☐ Mrs. |                |
| ☐ Ms.  | Name           |
|        | Title          |
|        | Address        |
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|        | Telephone      |

| A. | Do | you  | OWN | an | Amiga? |    |    |  |
|----|----|------|-----|----|--------|----|----|--|
|    |    | . Ye | S   |    |        | 2. | No |  |
|    |    |      |     |    |        |    |    |  |

- B. If no, will you purchase one of the following?

  3. Amiga 500 6 Other (please 4. Amiga 2000 ☐ 6. Other (please specify)
- ☐ 7. I currently have no ☐ 5. Amiga 2500
- purchasing plans.
- C. Would you purchase an Amiga magazine which had a bound-in disk of demo programs, tutorials, etc.?

  8. Yes 9. No
- D. Which software packages will you purchase in the next 12 months? (Please choose all that apply.)

  ☐ 10. Entertainment ☐ 17. Database Management

  ☐ 11. Word Processing ment
- ☐ 18. Financial Manage-☐ 12. Communications
  ☐ 13. Spreadsheets
- □ 13. spreadsheets ment □ 14. Home Productivity □ 19. Graphics □ 15. Programming □ 20. Education □ 16. Video □ 21. Musica ☐ 20. Education ☐ 21. Music

- ☐ 23. Sound/Speech □ 25. Other
- E. Which peripherals will you purchase in the next 12 months? (Please choose all that apply.)
- ☐ 26. Monitor ☐ 32. Gen Lock or Frame Grabber

  Grabber

  33. Music Hardware
- | 27. Dot Matrix Printer | 28. Modem | 33. Music Hardw | 29. Memory Expansion | 34. Color Printer | 30. 3½" Floppy Drive | 35. Laser Printer | 31. Hard Disk Drive | 36. Printer | 36. Printer | 37. Printer | 37. Printer | 37. Printer | 37. Printer | 38. P
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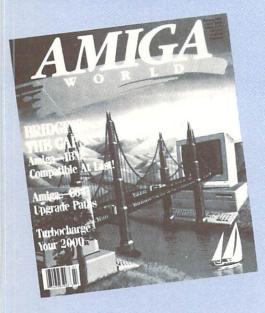


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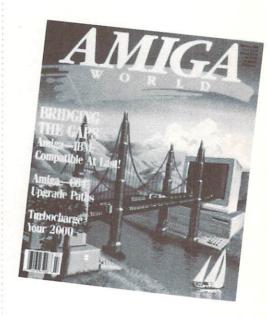
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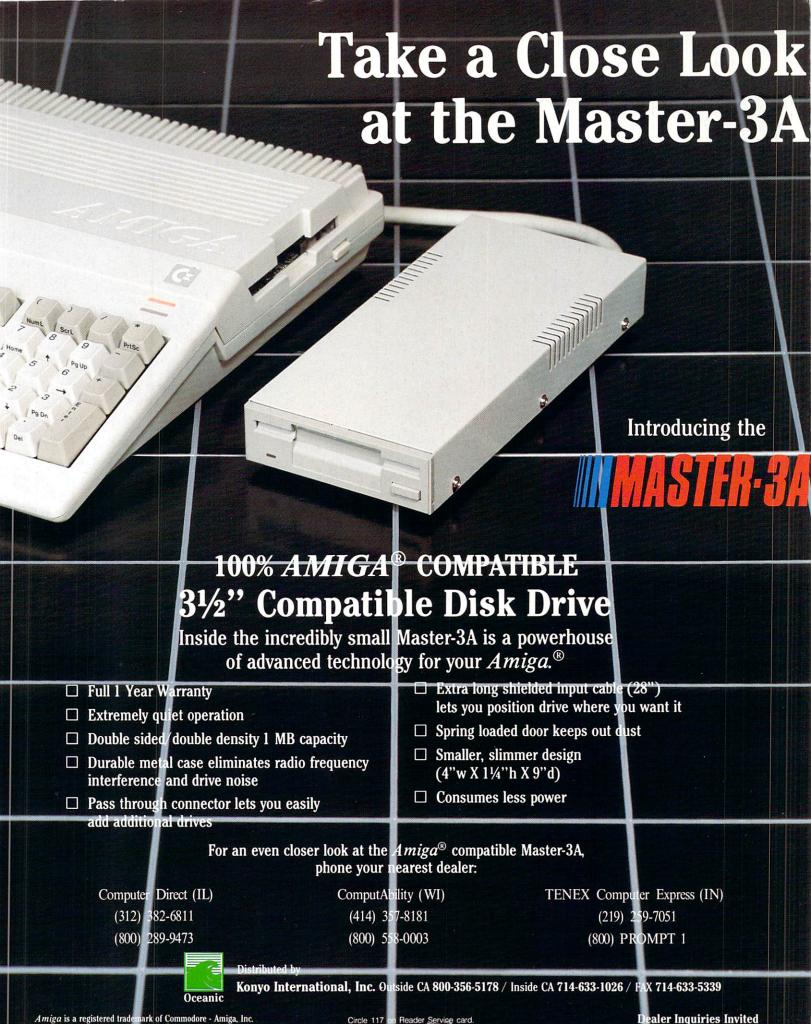
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