Covering Interactive & Multimedia Entertainment

COMPUTER GAMING WORLD

The #1 Computer Game Magazine

June 1994 / Number 119 ZD

WINGS OF GLORY

100 GAMES RATED

Feature Reviews

Alone In The Dark II
Carriers At War II
Fleet Defender
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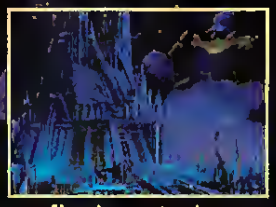

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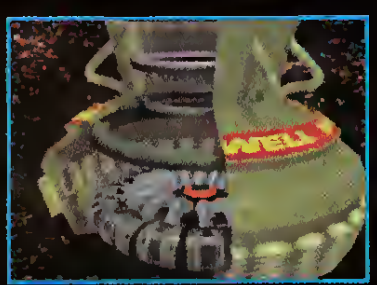

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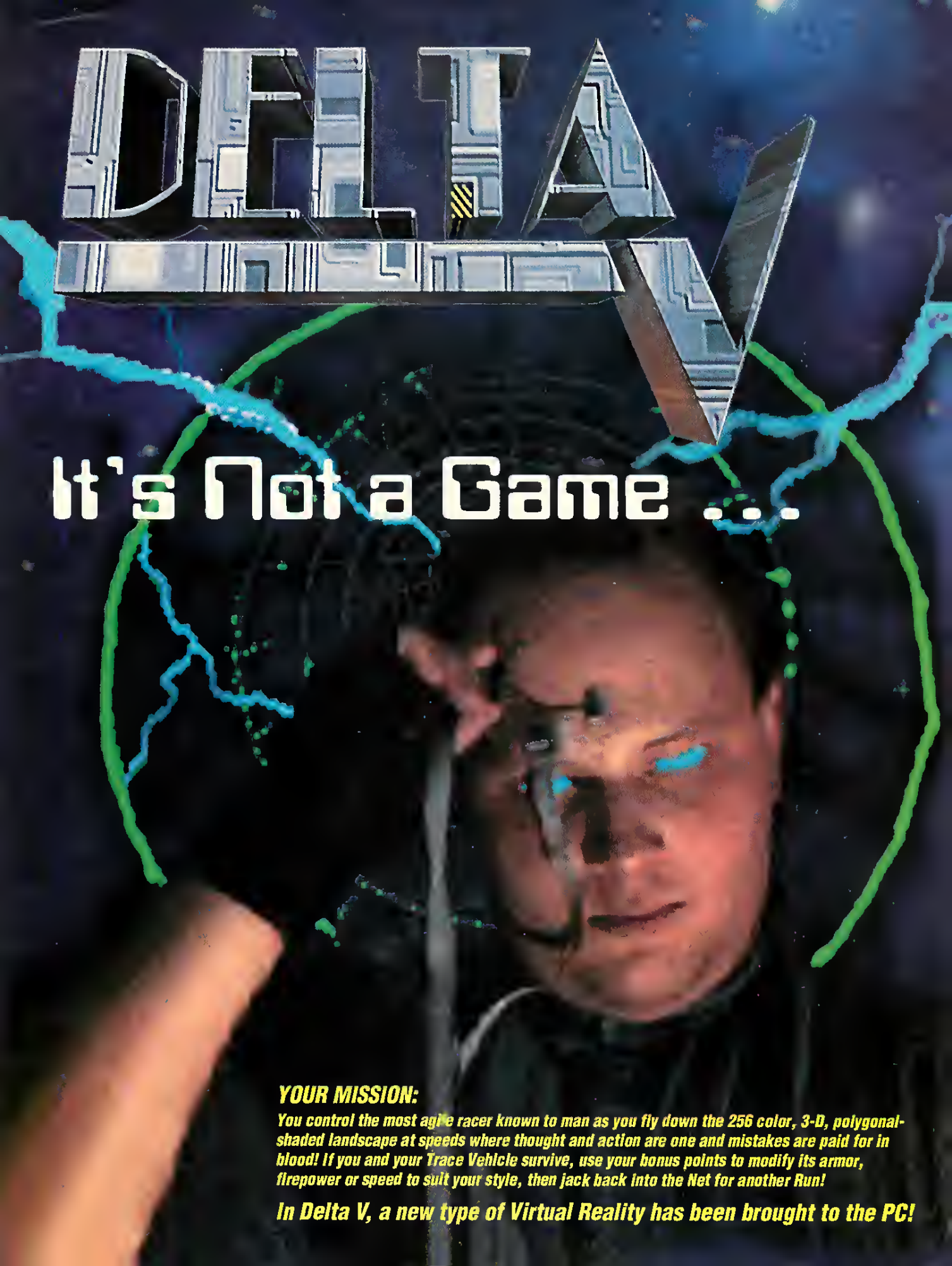
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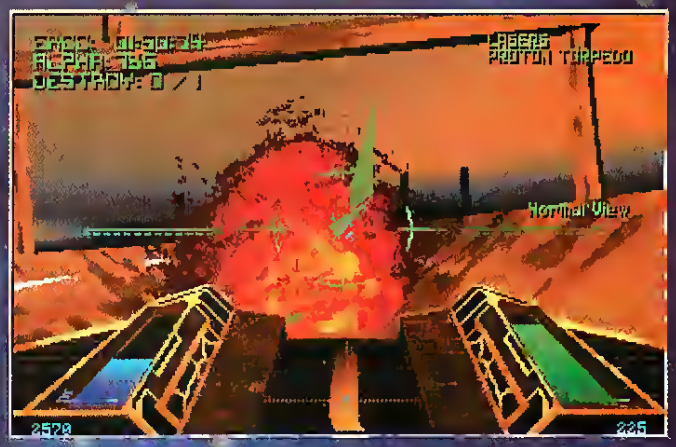

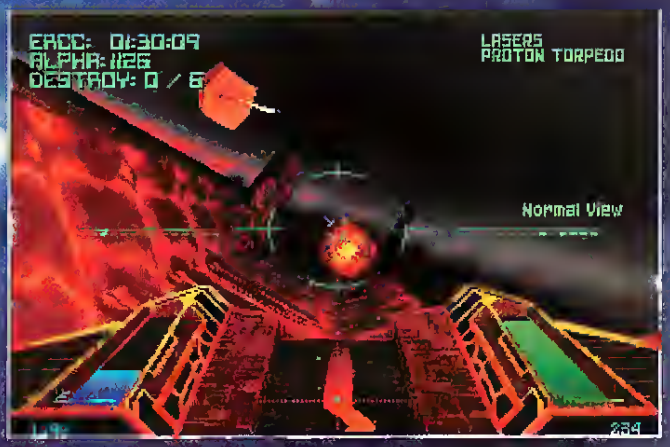

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—GROTHAN JHIR, ex-Netrunner.

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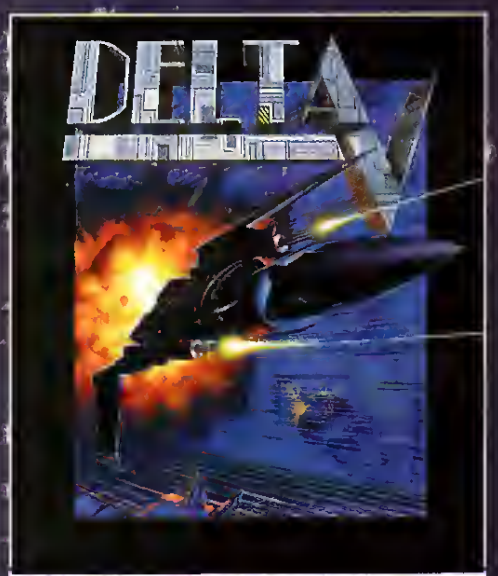

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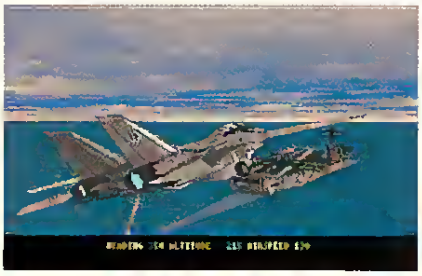

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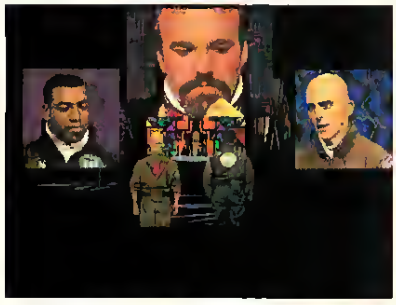

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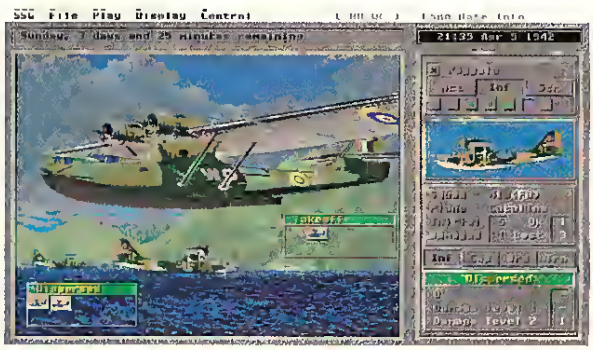

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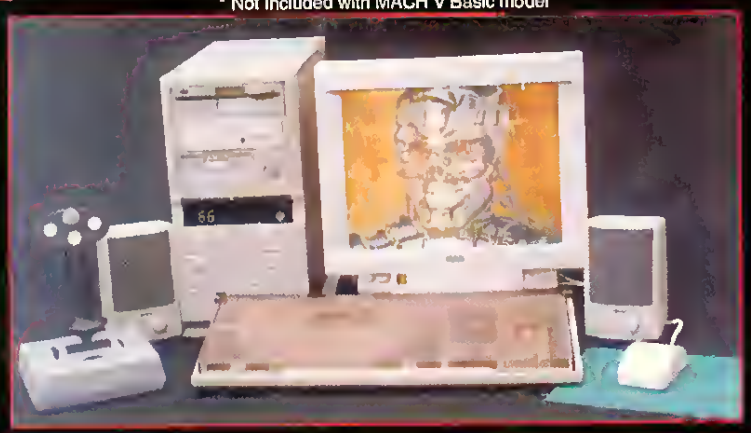

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Game Ratings:

PC-17 NOT SUITABLE FOR MATURE AUDIENCES

by Johnny L. Wilson

As usual, the government is acting upon their misconceptions of the world of gaming and, as usual, it is going to cost *you*, the gamer. The solutions to the video game ratings dilemma advocated by U.S. Senators Lieberman (Dem., CT) and Kohl (Dem., WI) will cost computer gamers in terms of time, money and content. At press time, Senator Joseph Lieberman's office sent us a copy of a letter which his office had sent to Ken Wasch, the Executive Director of the Software Publishers Association. The letter indicated that Senator Lieberman and his associate, Senator Herb Kohl, have no conception of the differences between audience, publication/manufacturing process, and game size between video games and computer games. The senators and their colleagues seem to believe that all interactive entertainment is for kids and that whatever is good for the video game companies is good for all platforms.

Lieberman stated specifically, "...your letter appears to imply that there is a distinction between interactive entertainment software developed for PC or other open systems and software developed for use on dedicated platforms. We question the basis for such a distinction." Further, Liebetman's committee insists on a ratings system that requires "prior review" (where a panel views every game in full prior to its release) for all products. Both of these misguided approaches to the ratings issue are dangerous for you as a gamer.

First of all, Lieberman and Kohl have endorsed a ratings plan that has been developed by video game manufacturers and video game publishers without significant input by personal computer-based publishers. The lone exception to this rule is Electronic Arts, which publishes personal computer titles but nets more than two-thirds of its proceeds from video game sales. The plan, advocated by this group of video game-oriented companies, calls for every game to be viewed by an independent panel prior to release. This independent panel would consist of parents, child psychologists, and educators.

How does that hurt *you*? This panel is not going to understand that you are a largely adult audience. They are not going to perceive that there is a marketplace of mature gamers. Everything they evaluate will be examined under the rubric, "Is it good for children?" As a result, many of the games covered in CGW will be rated as unsuitable for *children* and many retailers will refuse to handle these games because they perceive themselves as family-oriented stores and cannot sell unsuitable merchandise.

Further, the requirement for "prior review" does not hurt video game companies. They have a lag time in which review can take place while the cartridges are being manufactured. This is a lengthy process that usually takes place out of the country, requires some shipping delays, and costs more than disk duplication. It can be months from "code release" to distribution on a cartridge game, whereas it may be a matter of a week or two on a disk-based product. So, timing is not a sensitive issue on cartridge games, but it is quite significant on the disk-based side.

For example, assume that a video game company submits a game for review and a competitor submits one a week later. Let's assume that for no particular reason (a breakdown in logistics, personal preference of the panel, etc.?), the second company's game is reviewed first. Chances are that it still won't hit the market before the first company's game, as both products are in a lengthy duplication process. With disk-based software, however, that logistical anomaly could mean that the first product would not hit the shelves until after the second product had taken advantage. Lieberman's letter merely tells Wasch, "We would hope that any preshipment review rating system will process software products in a non-discriminatory manner, such as first-come-first-served." They expect this kind of even-handed treatment from the video game industry where the machine manufacturers dictate how many games a software publisher can have on the shelf, but make allowances for some publishers to have more than others?

Most importantly, the creation of an independent panel to review all games necessitates the creation of an unwieldy bureaucracy that will cost a lot of money to administer. Senators Lieberman and Kohl do not understand the difference between video games and computer games, so they do not realize that whereas video game play is extended because you have to play levels over and over again in order to master them, computer game play is often extended because the game worlds are larger and the environments/system more complex. So, while you could view a video tape showing a gamer going all the way through a video game in a few hours, it would take almost a week to go through even the most optimal path of a large computer game. Who is going to pay the hard-earned cash for the bureaucracy that spends this amount of time? You!

What can you do? We have already sent a letter to Senators Lieberman and Kohl delineating the problems inherent in their solution. Now, it's up to the readers of *Computer Gaming World* to let these gentlemen know that there are adult gamers that want their side of the issue to be heard. Write them now or expect to pay the price later in limited subject matter, late game releases, and higher prices. It *can* happen here.

Write Sen. Joseph Lieberman at 316 Hart Senate Office Building, Washington, DC 20510-0703; and Sen. Herb Kohl at 330 Hart Senate Office Building, Washington, DC 20510-4903. CGW

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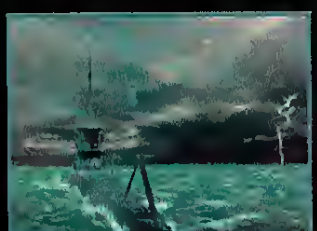

Actual screen images

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THE LATEST NEWS FROM THE GAMING WORLD

Ad Astra

Origin Goes To The Stars For *Wing Commander III*

Paladin, Maniac, Angel, Spirit—characters familiar to fans of **Origin**'s *Wing Commander* series—will shed their animated shells to be portrayed by live, Hollywood talent. Names like Mark Hamill, Tim Curry, John Rhys-Davies, and Ginger Lynn Allen will fill the credits of what will surely be one of the hottest games of '94.

Mark "Star Wars" Hamill and Tim "Rocky Horror Picture Show" Curry are returning to the PC screen for the second time, having both recently done voice acting for Sierra's *Gabriel Knight*. Curry will play Melek, a Kilrathi warrior, while Hamill will star as the player-character (aka "Blue Hair") role. John Rhys-Davis, who's had a variety of supporting film roles (*Raiders of the Lost Ark*) and is currently a TV "Untouchable," may don an Irish brogue for the role of Paladin. Malcom "A Clockwork Orange" McDowell will portray Admiral Tolwyn, and Ginger Lynn Allen, an actress of some renown in the "adult film" industry, will play a Chief Technical Officer and possible love interest. Jason Bernard (*Herman's Head*) will lend his commanding tones to the character of Colonel Eisen.

In spite of all the acting talent, the true star of the show may be the game's technology. *Wing Commander III* will sport a stunning Super VGA graphics mode and Silicon Graphics rendered backdrops into which the actors will be seemlessly inserted. In a recent demonstration, CGW was able to play a scenario in SVGA mode and fly a ship through the beautifully bit-mapped belly of a Kilrathi capital ship. The SVGA mode will require the highest of high-end 486 machines, but there is a VGA mode available to accommodate high-end 386s.

Wing Commander III is scheduled to release before Christmas of this year.

Gamers Get Break In Compton's Patent Review

The U.S. Patent and Trademark Office has rejected all 41 claims for the **Compton's NewMedia** multimedia patent announced during last year's Comdex. The patent had made broad claims with regard to the use of certain "search and retrieval" functions which Compton's believed were proprietary. Under the broad claims, any publisher of a multimedia product would have to pay royalty fees to Compton's. *CGW* and other industry observers were concerned about the potential impact in two areas: 1) the tendency for publishers to pass along the pricing (royalties + paperwork fees + the inevitable buffer) increases to gamers and 2) that the precedent of approving this broad patent would encourage other companies to claim broad patents on technology which has been developed simultaneously in other companies (causing more emphasis to be placed on legal filings and litigation than in design and development).

PATENT DENIED U.S.P.T.O.

In addition to the good news for gamers, the decision of the U.S. Patent and Trademark Office to overturn the broad patent claims may stem the tide of questionable software patents already granted. For example, Patent #5,175,857 granted a patent on a Quicksort implemented by using a linked list of pointers to the objects to be sorted. This is a task regularly assigned in introductory computer science classes. Patent #5,121,492 was granted to a developer who had figured out how to simulate the access times associated with a CD-ROM by slowing down a hard disk. Hardly revolutionary technology!

Compton's does not expect to be hurt by the decision. Thomas McGrew, Vice-President for Market Development and Product Planning, told *CGW* that the company was not depending on any patent-related revenue stream as part of their current business plan.

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Intel's Newest Addition To Its *OverDrive* Family

In a recent meeting with *CGW* and Intel, Intel discussed rheir long term strategy to market an *OverDrive* upgrade chip for each CPU it manufactures. The *OverDrive* processor is a replacement processor for your existing CPU allowing you to easily and economically upgrade your system for faster performance.

The latest *OverDrive* processor is the new *SX2 OverDrive* upgrade chip. This chip will allow 486-25SX owners ro rurn their machines into the equivalent of a 486-50DX2, although without the standard DX's math co-processing ability. The suggested retail price is $249.

The OverDrive package is designed to allow rhe average compurer user to install the chips rhemselves in a few minutes. All *OverDrive* packages will come with many value added features such as a pre-attached heat sink, a utilities disk, chip remover, concise documentarion, and technical support. Installing the chip is a marter of either directly replacing the existing CPU or dropping the *OverDrive* into a special *OverDrive* socket and having it coexist wirh your CPU.

Along with the announcement of the *SX2 OverDrive*, Intel announced a price reduction for the first member of the OverDtive family, the *66MHz IntelDX2 OverDrive*. This chip, which now retails for $499, allows owners of 33MHz DX systems to upgrade ro a performance equivalent to a 66MHz DX2 system. Other additions to the OverDrive family are anticipated, including a chip based on Intel's recently announced *IntelDX4* line.

Microsoft Security Leak!

Secret Levels of *Tempest* Revealed

An undisclosed source ar the Microsoft Corporation has come forward to tell *CGW* that there are 14 previously unseen levels of the arcade game *Tempest* buried within *Microsoft Arcade*. To access the secrer levels, hold down the "T" and "D" keys while double-clicking on rhe main *Tempest* icon. When the game loads, the level selection menu will allow you to choose from these secret levels.

***Tempest*: Bill Gates' second favorite pastime; the first, shredding Outland cartoon strips.**

The British Are Buying

Software Toolworks Nets $462 Million

Software Toolworks, publisher of the award-winning *Chessmaster* series, has been purchased by Brirain's Pearson PLC for $462 million ($14.75 per share). Pearson is not only the publishing company that owns the *Financial Times*, but is the ownet of popular publisher Penguin Books and scientific/rextbook publisher Addison-Wesley. Pearson is also the parent company of Thames Television and has a significanr stake in British Sky Broadcasting.

Software Toolworks has been on the acquisition side of such deals in rhe past, having purchased Datasoft (sometimes known by its *Intellicreations* label) and Mindscape in rhe past. The former purchase was primarily to add additional floppy-based titles after Software Toolworks bought a disk duplication company. The Mindscape purchase added carrridge design and markering capacity to the mix. Currently, Software Toolworks gleans 48% of irs revenue from PC- and CD-ROM-based products and 42% from cartridge-based producrs.

Ir is unclear whether the purchase was for the purpose of getting Sofrware Toolworks' game divisions or not. The oprimistic sign for gamers may be that Pearson immediately appointed an experienced Sega Europe CEO, Nick Alexander, as head of the Pearson New Entertainment Europe group. However, Pearson may very well plan ro focus on Software Toolworks as a vehicle for porting tradirional content (book and television properties) over to CD-ROM tirles, much like the very successful *Grolier Encyclopedia* producr and the Ziff-Davis *How Do Multimedia Computers Work?* ritle. It will be inreresting to see which direction Toolworks takes its next-generation products. CGW

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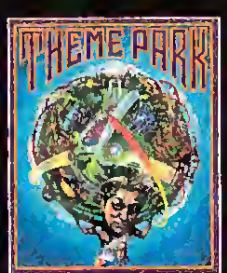

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Smoking Camels Are Bad For Your Health

So Watch Your Sopwith's Six In Origin's *Wings of Glory*

by Paul C. Schuytema

A canvas and wood aitplane, no parachute, castor oil smearing your goggles, clouds of yellow mustard gas below, and they expect you to be a hero? Yes, World War One was a strange time for this new breed of winged warriors called "aviators." Aitplanes were a new technology (not even five years had passed since Orville and Wilbur's "powered kite" milestone), and the pilots who flew them were on one hand gallant knights of the air and, on the other, expendable tools of war who were far less valuable than the fragile planes which they flew. Patachutes were available, and the observers who hung above the battlefields in tethered balloons wore them regularly, but the pilots were not issued 'chutes for fear that they would simply leap out of the airplanes at the first sign of trouble.

Wings of Glory, the forthcoming "cinematic-simulator" ftom Origin Systems, will bring the unique world of W.W.I aviation to life, but with a nod more in the direction of an Errol Flynn movie than a dry and super-teal simulation. Make no mistake, though, *Wings of Glory* will model the flight of the rickety and tricky-to-fly airplanes to the utmost detail, surpassing all othet W.W.I-era sims in the reality department.

Wings of Glory is based on a modified *Strike Commander* flight-simulation engine.

> A poor aviator lay dying
> at the end of a bright summer's day
> his comrades had gathered about him
> to carry his fragments away...
> ...and then to his wondering comrades
> these brave parting words he did say:
> "take the manifold out of my larynx
> and the cylinders out of my brain
> take the piston rods out of my kidneys
> and assemble the engine again."
>
> -W.W.I aviator's song

Talk around Origin was that, while the latest release of *Strike Commander* cleared up many of the realism problems, the simulation did not make the best use of the flight engine. The ability to beautifully render the details of the various planes and ground targets was lost in the kilometers of distance between opponents who faced off with radar and guided missiles. Warren Spector, the producet of *Wings of Glory*, had been fascinated with W.W.I aviation for years, and had put many hours behind the stick of Dynamix's *Red Baron* (which he believes to be an excellent game and "an astonishing accomplishment"). When he saw what the *Strike Commander* engine could do, he felt that marrying the power of that technology with the seat-of-your-pants quality of a W.W.I dogfight would be a marriage made in heaven.

Warren brought Bill Baldwin on board from the *Strike Commander* crew, assembled a design team and hit the ground running, sculpting a game with the realism and detail made possible by the *Strike Commander* engine with a story teminiscent of the 1930s-era W.W.I dogfighting film.

Masters Of The Canvas

The first thing that struck me about *Wings of Glory* was the gorgeous detailing of the airplanes. By texture-mapping highly detailed graphics onto the plane's polygonal shapes, the simulation presents the players with aircraft which feature canvas stretched across wooden wing spars, the vibrantly colored patchwork of German camouflage, unique fuselage paintings, wooden cowlings, and enemy pilots with scarves flapping in the wind. When flying, switching to the external view and rotating around your plane will present you with a visual treat never before seen in a flight simulator. The graphics are just that good.

While watching the art team put together the images, I couldn't help but notice their dedication to historical accuracy. Working with blueprints of the actual planes, period photographs, and color photos of restored aircraft, they sought to create as authentic a look as possible.

The beautiful birds you can take aloft include a Sopwith Pup, an early, single-gun plane with poor performance; the twin-gunned Sopwith Camel; the Spad XIII 235hp bomber boasting twice the power of the Camel; the anemic SE5A which had the sole virtue of a wing-mounted gun for balloon busting; and the classic Fokker Dr. I—the Red Baron's tri-wing fighter.

The playet can pan around the cockpit, nearly a full 360 degrees while still in full control of the plane. This "rubber necking" is very useful when tracking an opponent who flies past, allowing the player to immediately break and fall into pursuit. The flight control is smooth, and even at the novice levels the planes are modeled with enough realism to startle PC pilots who ate familiar with the other W.W.I-era sims out there. Wings of Glory does not mask the fact that these planes were slow, ungainly contraptions, as did *Knights of the Sky*, and players might be a little taken aback by the awkward flight dynamics.

Once in the cockpit, the playet can adjust the realism levels of the sim, making flight relatively easy or as realistic as possible. At the most realistic setting, *Wings of Glory* takes into account the uncomfortable yaw found in the early tadial-engined planes. Due to the way the cylinders fired in sequence, the engine created a nasty gyroscopic effect, pulling the plane in the direction of the propeller's spin, and the pilot would have to apply nearly constant back pressute on the stick while in flight.

Stories Of Glory

The game features three main arenas of play: the cinematic game, the mission generator and the mission recorder. The mission recorder is a Dynamix-like VCR that allows you to play filmmaker and edit yout mission tapes, as well as enter the sim at any point during a tape. The mission generator will allow you to set up any aerial combat mission you might imagine (including unlikely Sopwith Camel versus Sopwith Camel and other "Allies only" dogfights), perform a bombing or ground attack run, or take on the "gauntlet," which is basically an arcadish, never-ending stream of enemies to test your aerial mettle.

The heart of *Wings of Glory*, though, is the cinematic game. Cast in the role of an American flier, the player begins the game on January 25, 1917, to the angry rebukes of a commander who doesn't like that two of his star pilots had decided to "tie one on" the night before. As a result, the player/chatacter is relegated to "B" squadron, the flight wing for the fresh cadets. These young pilots came to the front with only a few hours flying time under their belts, and were shouldered with life-expectancy only a little longer than it

would take to fly over the western front.

The game follows the player through 40 varied missions, up through November, 1918. Instead of choosing to work with a branching-tree mission format, *Wings of Glory* presents the player with a linear sequence of missions. Spector observed, through his work on the original *Wing Commander* game, that while the designers created an entire tree of missions that would branch one way or the other based on player performance, it did not accurately model the way players actually played the game. Most players would play a mission over and over again until they got it right, so they would only follow the "victory" path of 18 missions, never seeing the other missions. By laying out the sequence in a linear fashion, every player in *Wings of Glory* will experience all of the missions. This layout also seemed to fit well with the fact that while the air war was significant in W.W.I, it did not alter the course of the war to any real degree, and so no matter what a single pilot was able to achieve in the air, the Allied forces would still have won the war in 1918.

The plot and dialogue, crafted chiefly by Origin writer Lisa Smith, throws the player into a pulp adventure film, complete with a beautiful French farm girl, a 100-year-old farm house, a cast of quirky and very convincing characters, and of course, an arch-nemesis, the German ace Ulrich Gertman. Through the missions, the player will fly better and more capable planes as they are introduced (the game starts out throwing you into the rathet anemic, single-gunned Sopwith Pup). Along the way, the player develops attachments to charactets, learns from his mentor, and confronts a

German spy. Eventually, the player moves from the comparatively luxurious aetodrome to an American outpost of green canvas tents to finish out his tour of duty.

Drawing The Line

I was not able to perform any ground strike or bombing raids on the version I tested, but I did get a chance to look over the ground objects and vehicles which Whitney Ayres, one of the four full-time project artists, was working on. The level of detail is astounding, from the glow of coals in the back of a steam locomotive to the flowers in the window boxes of French farmhouses. The most prevalent landscape feature in the sim is the ever-present front line, a bombed-out, cratered snake of muddy trenches which disappears into the horizon in both directions, and really illustrates the awkward stalemate of the war. Dotting the trenches are aerodromes and small villages, and flying overhead truly gives the impression that there is a war going on "down there." Perhaps one of my greatest disappointments in other war-era sims to date has been the fact that there is really no indication of a war going on below my plane. The terrain in *Wings of Glory*, especially the trench-line, solves this problem admirably.

After spending an afternoon with the design team at Origin, I was struck by their absolute dedication to this project, and their efforts to make *Wings of Glory* the most beautiful and accurate sim out there. Warren Spector's enthusiasm was contagious, and he seemed to beam when he told me, almost matter-of-factly, that *Wings of Glory* would be "the most realistic game in the world."

If it can live up to that high promise, then it will truly be an accomplishment, but even if it just comes close, *Wings of Glory* still holds all the potential to be an excellent game, and one certainly worth looking forward to. **CGW**

Wings On The Screens

Since *Wings of Glory* strives to exude the aura of "pulp cinema," we thought it might be useful to refer interested teaders to the classic films. These films will give you a feel for the spirit of the game and will put you in the mood to don your silk scarf and silly leather hat and climb into the air on "wings of glory."

Wings (1927)
Clara Bow, Charles Rogers and Gory Coopar
(first film fo win the Best Picture Oscar)

Dawn Patrol (1930)
Richard Bartholmoaa and Douglaa Fairbanka Jr.

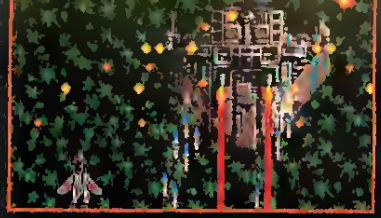
Hell's Angels (1930)
Jean Harlow and Bon Lyon
(produced by Howard Hughea)

Ace of Aces (1933)
Richard Oix

Dawn Patrol (1938)
Errol Flynn, David Niven and Basil Rathbono
(the favorite of tho Wings of Glory dealgn team)

Lafayette Escadrille (1958)
Tab Hunter and Clint Eaatwood

The Blue Max (1966)
George Peppard and James Mason



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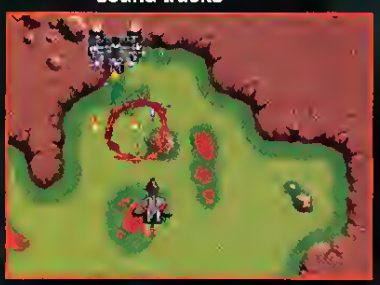

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Leagues Of Its Own

EA's *Seawolf*: Sinking Simulation Or The Best Sub Game Afloat?

by Robert L. Hayes, Jr.

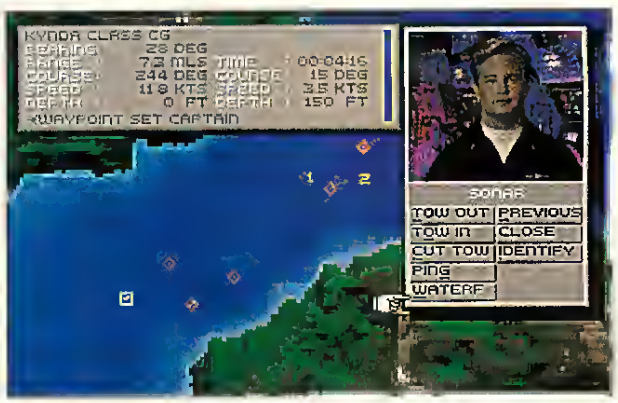
Many wargamers have lamented the breakup of the Sovier Union, at least from rhe standpoinr of modern-era wargames. Whar fun is it to beat up on the hapless Iraqis or orher third-rare armies? Though there is no one currently in the queue to take over the role of Evil Empire, there's no cause for wargamer alarm, as game designers have realized that all they have to do is posrulare a hard-line coup in the former USSR to ser all aright.

Seawolf, the newest submarine simulator from Electronic Arts, is set in just such a near-furure world in which the Soviet Union has been resurrected by hard-line militarists, with predictable results. Global tension mounts and the newly-reborn USSR faces off with her old antagonisr, the good old U.S. of A. The *Seawolf*, the USN's newest toy, finds herself square in the middle of the raging naval conflict thar follows.

Speculative Specs

You take on the role of a submarine commander who leads the prototype Seawolf on teconnaissance, attack, and patrol missions all over the world in the course of the US-Soviet conflict. And what a prototype she is! Capable of speeds approaching 60 knots and carrying a massive armament load, the Seawolf is a remarkable submarine. It is so remarkable, in fact, rhar it is unbelievable. Nothing remotely like this ship is on the Navy's drawing boards, nor could it be. Sixty-knot submarines simply do not exisr, and despite this impressive speed in the water, the Seawolf is remarkably quiet, cluding Russian sonar wirh ease while picking up the quietest sounds with her beyond-state-of-rhe-art sonar and towed array. While it is fun to command such a powerful craft, this incredible power is rhe firsr torpedo into the hull of *Seawolf*'s claim to being a realistic simulation.

On booting *Seawolf* up, you are presented with a remarkably well-rendered animation of a ship on the horizon. A rain of missiles launch from this vessel and disappear into the clouds. Suddenly, a boiling spray appears in the foreground, and a missile (obviously from a submarine) leaps high on a parabolic arc

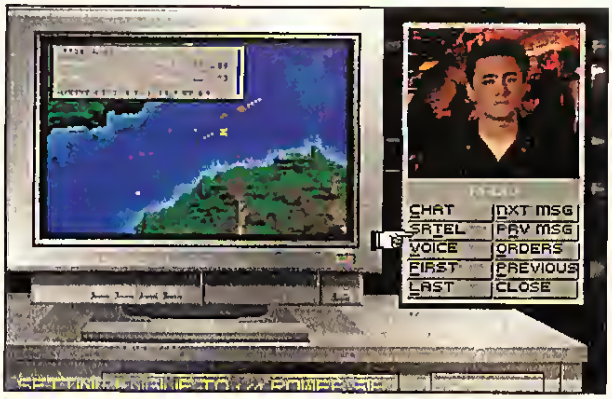


inro the sky, reappearing a few seconds later and making tinfoil out of the enemy ship. This is all accompanied by dramaric stereo sound and is quite an impressive beginning. Once within the game, it is pleasant to note rhat rhe graphics are nearly as good as the cinematic introduction. Digitized video shots of your crew members appear in response to orders, and the battle screen graphics (usually an overhead naval plor display) are crisp and easily read. A status box takes up a disproportionate amounr of space on the top-down screens; though it can be moved about the four corners of the map at will, it can be very distracting and all too often covers up approaching enemy vessels. Other views are possible, and the periscope view is particularly well-done. An underwater view can be useful for detecting enemy subs (and here we've been wasring all rhis money on sonar systems, when all we have to do is look out the window). Most unique is the camera view, wherein the *Seawolf* can drop off a remote camera, which then pans in a 360-degtee arc, providing a consrant view from wherever the cameta was dropped.

It is possible to play *Seawolf*'s 33 missions in a campaign mode, or any given mission can be played singly. During the campaign, you must successfully complete each mission to proceed to rhe next. Most of the missions are straightforward sub hunts or surface ship shooring galleries, most with the Seawolf significantly outnumbered. The mission are all drawn ftom plausible conflict scenarios (although rhe designers apparently could not conceive of a naval situarion in which the US was on the losing side), however, one of the missions is silly and highly unrealistic. In mission 29, rhe Seawolf is ordered to sink a Japanese convoy invading Sakhalin Island (one of rhe islands over which Japan and the former USSR have a long-standing disagreement). This occurs righr after the Seawolf

Seawolf

PRICE:	$69.95
SYSTEM:	IBM
REQUIREMENTS:	386-25MHz, 3MB RAM (486DX, 7MB RAM recommended), VGA graphics, 14MB hard drive space, supports most major sound cards
PROTECTION:	None
DESIGNERS:	Paul Grace, John Ratcliff
PUBLISHER:	Electronic Arts San Mateo, CA (415) 571-7171



missile, no data on how deep a sub can be and still fire a missile—in short, no data. The manual is so deficient that it even fails to tell you what your weapons are. Admittedly, most people buying the game probably know the difference between a Harpoon and a SeaLance, but what's a stasis torpedo? As it turns out, it's just a Captor mine—in which case, why not call it a Captor mine? The manual therefote basically consists of a list of the game's options, with sketchy information on each of them. Many gamers will probably be upset to find that EA has already begun advertising a "hint book" for *Seawolf*, which is, more likely than not, the real manual for the game.

Your sonar opetator will identify targets fot you, given sufficient time. This is well and is ordered to support an invasion of another of the disputed territories! Aside from the unlikelihood of resurgent Japanese militatism—particulatly when the world is teetering on the brink of nucleat conflict, as it would be in the wat *Seawolf* describes—the thought of the USN turning its guns on an ally simply over a policy disagreement does not ring true.

In any case, having picked out a mission or statted the campaign, you ate placed aboard the Seawolf itself. Function keys on the keyboard allow you to call up navigation, sonar, weapons, communications, or the "conn"—the game tetm for the game pteferences panel. Each of these command systems is comprised of a menu of options and a digitized video clip of the responsible ctew member. For example, undet Sonar ate found the commands for deploying the towed atray, sending an active sonar ping, and consulting the waterfall display. This system is clumsy and slow, particularly in the heat of battle, but most of the impottant commands do have hotkeys, and after a few missions of practice the interface does not get in the way so much. You have reasonably good control over most systems, the only flaw being the difficulty in getting infotmation about the Seawolf's current status. It is altogether impossible to get a damage teport, for instance, and difficult to make out the ship's remaining weapons.

Hull Breach!

In addition to the *Seawolf*'s specs, thete are othet serious reality ptoblems with the game. The Seawolf's weapon load consisrs of two Harpoons, two Tomahawks, and two SeaLance missiles, along with a huge (50+) arsenal of torpedoes. Aside from the illogic of an attack sub having so few missiles (and missiles ate fat more effective in *Seawolf* than their undetwater cousins), no meaningful weapons data of any kind is given in the manual. No weapon ranges, no weapon speeds, no details on how long control cables for torpedoes are, no data on weapon effectiveness, no data on how deep a sub can be and still be hit by a

F.Y.E.O.
Secret Weapons Data For *Seawolf*

Like a hypothetical U.S. nuclear tesponse to a Soviet first strike, Electtonic Arts has responded swiftly and effectively to answer certain ctiticisms about the *Seawolf* manual. In this table you will find the weapons data that was omitted, purged, or stolen from the documentation.

The weapons are broken down by Power, Speed, Detection and Range. Power refers to the maximum number of damage points a particular weapon can inflict. Thus, if the Seawolf gets nailed by three Type 66 Torps, it's toast. Speed refers to the maximum speed of the particular weapon in knots. Detection refers to the ability of the particular weapon to find targets (the higher the number, the better the weapon). Range, listed for friendly weapons only, refets to the apptoximate maximum range of the particular weapon.

	POWER	SPEED	DETECTION	RANGE
ENEMY:				
SS-N-14 Missile	75	60	16	-
SS-N-15 Missile	80	60	18	-
Type 45 Torpedo	60	65	16	-
Type 53 Torpedo LR	80	35	15	-
Type 53 Torpedo HS	80	45	15	-
Type 66 Torpedo HS	100	65	18	-
FRIENDLY:				
Harpoon	255	-	-	-
Tomahawk	255	-	-	-
(Use against surface vessels only)				
Sea Lance Missile	100	55	20	-
(Can be used against subs, but best used against surface vessels)				
MK-48 Torpedo LR	80	40	22	10-12 miles
(Best used against slower subs and all surface vessels)				
MK-48 Torpedo HS	80	55	18	3-6 miles
(Best used against the Akula and Alfa Class subs at less than 1 mile)				
MK-48 Wakehoming	80	40	20	10-14 miles
(Most effective against surface vessels by homing in on their wake)				
MK-48 Stasis	80	50	18	3-6 miles
(Drop to the bottom of the ocean to wait for an unsuspecting vessel to pass over)				

good, but he is capable of identifying any number of targets at once. This makes manual identification using the waterfall display rather pointless. In the time it takes you to identify one target by comparing its signature to those given in the manual, your sonar officer will have identified everyone else within sonar range. It's easier and safer to simply stay in the top-down map and wait for the computer to do the work, rather than moving to the waterfall display for identification purposes.

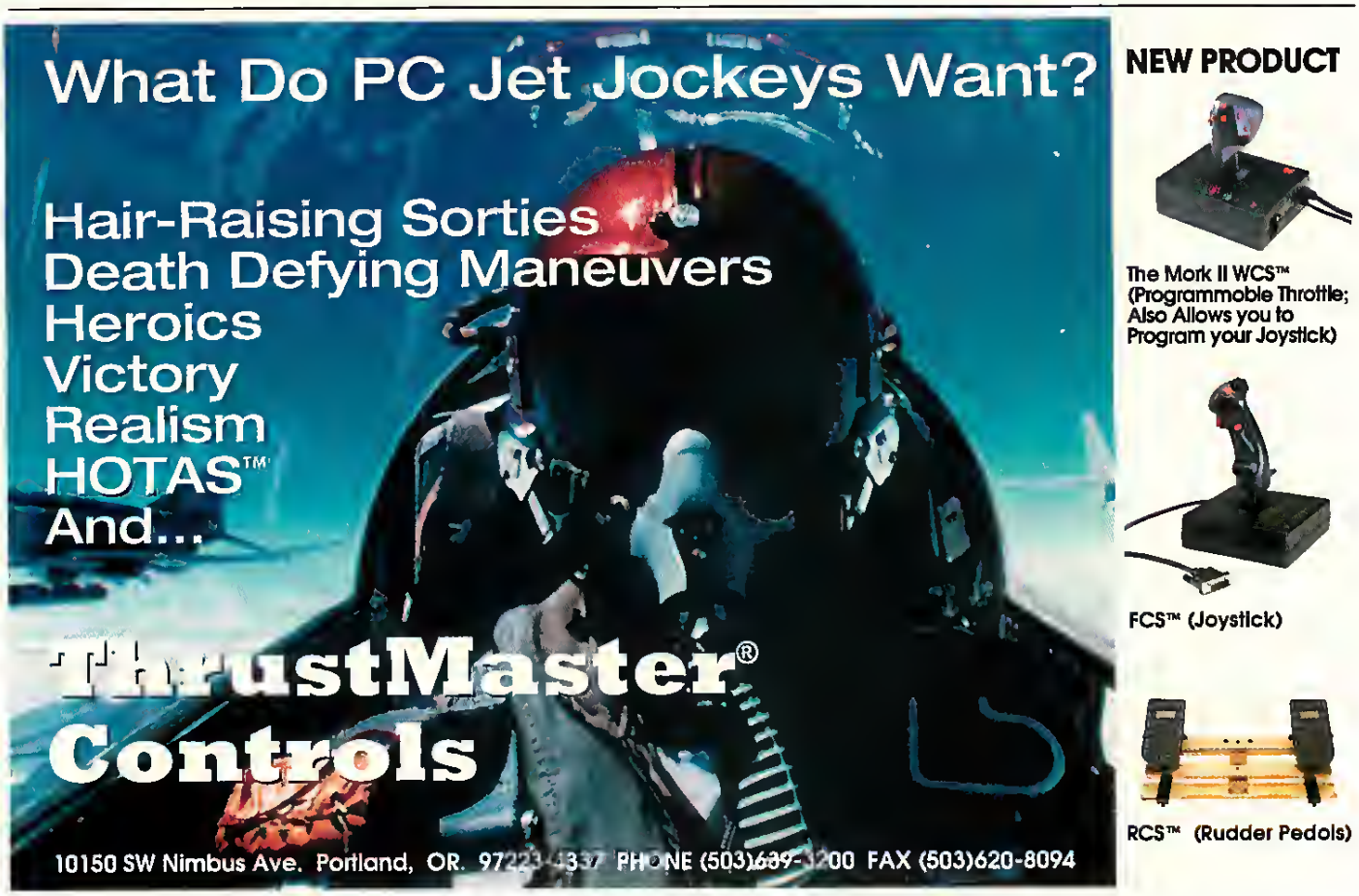
On the whole, the artificial intelligence is poor. Convoys will continue steaming on course even while your torpedoes rip them to bits. Enemy carriers, presumably bristling with ASW helicopters, launch one or two at a time, if they even launch at all. Enemy submarines don't try to get into the Seawolf's baffles, and they rarely even move between thermal layers. The game's hydrodynamic and thermodynamic models are highly realistic, but the AI is so poor at finding your submarine that much of the effort that went into creating these models is wasted.

There are a few gameplay problems, as well. Lockups are not infrequent, particularly when large amounts of digitized video are being played. The Seawolf itself so outclasses its opposition that only hordes of Russian subs or surface vessels pose a threat. As a result, there is very little feel of one lone wolf cautiously (and dramatically) stalking its prey. Target selection is idiosyncratic, as it often takes multiple attempts to pick a target out of a pack of enemy ships. Finally, the Seawolf cannot communicate with friendly vessels in the area.

On The Other Hand...

Seawolf does have many strong points. Modem and network play are supported, to the loud cheers of many gamers. Although I was unable to find a willing soul in time for review, I expect that head-to-head play will be very popular. The graphics are lovely, and the sounds are very well done. The digitized video clips are in a low resolution, but still add loads of atmosphere to the game. There are a wide variety of enemy ship types, of all nationalities, and most of the scenarios are quite enjoyable. Who hasn't wanted to blow up Cuban picket ships and wreak havoc through defenseless convoys?

So, despite the problems with the manual, the realism, and some of the gameplay, the game is still a whole heck of a lot of fun. This is definitely a game for someone who wants to enjoy a few hours of blowing up Russian ships, and not for the next Admiral Nimitz. Unfortunately, Electronic Arts gives the impression that *Seawolf* is the ultimate submarine simulation, and that's just not the case. Serious naval warfare fans are not likely to be entertained by the liberties *Seawolf* takes with their suspension of disbelief. As a simulation, *Seawolf* is a dud; as a game, it's a solid effort and a worthwhile addition to any naval gamer's shelf. Those wishing for the next *Red Storm Rising* will be disappointed, but as long as you're expecting an enjoyable beer-and-pretzels submarine shoot-em-up, *Seawolf* will hit your target. CGW



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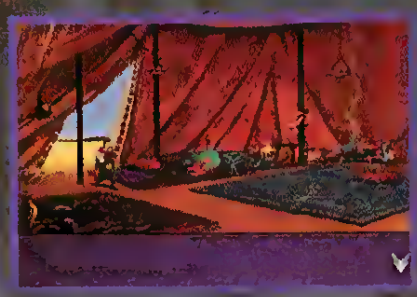

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Fleet Defender From MicroProse

by Mark "Endo" Estephanian

On the vapor trail of Spectrum HoloByte's *F18 Hornet,* MicroProse casrs its hat into the carrier-based operations ring with *Fleet Defender.* This long awaited flight simulator models the twin-engine, swept wing, strategic intercepror known as rhe "Tomcat" with a solid flight and radar model, and excellent campaign features.

On start up, the choice you face is a simple one: enter the quick turn-and-burn arena of the Scramble mode, or take the Campaign route with its three theaters of operation, multiple scenarios, and mission generator.

In Scramble mode you can set up allied and enemy flights in a snap. You can select your targets—from TU-22 bombers to a flight of MiG-29s—along with many other variables with a few quick clicks of the mouse. No control of enemy way points is available, but you can specify a position in which to srarr the scenario: either offensive (on the bandit's six), defensive (he's on yours) or neutral (head to head BVR).

The Campaign mode features a mission generator with three theaters of operation: North Cape, Mediterranean, and a training theater, Oceana. Several scenarios are available in each, including the Oceana training missions tailored to hone the skills necessary for flight and fight. The mission generator will send two squadrons of allied aircraft to engage the enemy, with your objective being to survive and bat .500 in your missions.

In most campaign missions, your job is ro protect your carrier and escort various strike packages to their targets. A pilot will advance in rank as he racks up campaign points, bur if he dies or allows his carrier to get nuked, the campaign is over. Thankfully, you may resurrect your pilot in the middle of a campaign. Wingmen can also advance in rank, making them more capable companions and increasing rheir tendency to take the initiative and seek out targets.

Most missions will take place over water, though you will escort bombers into defended ground areas where AAA and SAM sights will complicate your life. The campaign objectives are broken down into rather simplisric terms such as "you must shoot down a total of four TU-22 for success," and you are given no control of waypoints or mission planning. Gamers used to serting waypoints and time on targets will probably be disappointed.

I Was There!

The best way ro illustrate *Fleet Defender*'s radar modes and flight model is to put you in rhe seat. So, let's fly a campaign mission with the El Dorado canyon scenario (historically based on the US Libyan air strike in 1986). Our mission is to escort a flight of F111 bombers in roure ro the Benghazi airfield.

After selecting the Jolly Roger VF-84 squadron, I max out the difficulty settings, and arm up wirh a fleet defense bravo load out. Once in the front cockpit, I marvel at the very derailed fronr displays. Left and righr views are very clean and display a throttle, gear lever, and a bank of warning indicators. Snapping a quick glance back, I can see my backseat RIO (Radar Intercept Officer) working the scopes. The front cockpit sports a sharp representation of a center display called the vertical display indicator (VDI), a mini HUD-type repeater which can be toggled to display the Television Camera System, and a 20X zoom camera that can track and display targets in all weather. The "look down" view reveals a navigation instrument called the HSD (horizontal situational display). Engine and fuel status indicators also appear in this view.

As I dump raw fuel into my burners, I shift views to the Air Boss perspective and watch as my F-14 rockets down the deck. I clean her up and adjust my

Fleet Defender

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PROTECTION:	None
DESIGNERS:	Scott Spanburg, Mike McDonald, Scott Elson, Ned Way, Christopher Clark, George Wargo, Oetmar Peterke
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flight path to line up the HSD cutet with my next waypoint. It's now time to activate the AWG-9 radar and fite control system.

Steady up at angels 10, the EC-3 Hawkeye vectots me to an intercept position for incoming contacts. I swing port heading 160 for a 20-degree offset and with a quick keystroke tell my wing man to "go tactical." I now have his attention and he will hopefully seek out targets on his own. Engaging auto-pilot to maintain heading and altitude, I jump into the rear RIO seat where my forward view shows the DDD (Detailed Data Display) indicator and a rectangular box with a radat beam sweeping back and forth. The look down view is a radar scope called the TID (target indicator display). This scope looks like a baseball diamond with yout aircraft at home plate and is slaved to several radar modes that ate selected on the DDD display.

On the DDD I can see three blips off to the left side of the screen and several blips to the tight. The blips are appeating and disappearing, so I tweak the beam elevation to get a solid return. I can actually shape the scan pattern emanating from the nose of my aircraft. The beam elevation can be tilted up ot down, and I can adjust the vertical and horizontal scanning volume by changing the elevation bar and azimuth switches in the left RIO view; this will flatten or elongate the area of radar coverage. I have several search and track modes at my disposal, and I select the TWS-M (Track While Scan-Manual).

This mode is slaved to the TID and will display tatget icons along with range, altitude and heading information. I can use the Pulse Doppler Search (PDSRCH) ot Range While Scan (RWS) search modes to scan for targets at gteater ranges, but I will receive no range information and I will have to lock up the target in Pulse Doppler Single Target Track (PDRSTT) to get a track. This will set off the bandit's warning system, and he'll know I'm ttacking his aircraft. The TWS-M and TWS-A track modes are best suited fot the AIM-54 Phoenix missile system. The radar is passive and shows multiple targets on the TID without having to lock the targets. The "A" variant automatically assigns a Phoenix to each contact ptioritized by ptoximity, and the "M" manual mode allows the pilot to decide the sequence. Have your eyes glazed ovet yet? It does take a while to get yout head around the radat system—it took me at least three reads through the documentation—but dedication will cettainly be rewarded.

Having dialed in the radar on the DDD, I highlight or "hook" each blip on the TID with the HT button. This will bring up information on the scope. I identify all the targets, and I now can see that the F-111 will be intercepted by a flight of four. I use the DT key to designate each enemy target and a Phoenix is assigned to each. At 60 miles, I am well within the range of the AIM-54 missile.

I clear my wingie to attack the target I have selected; as soon as he fires I can switch targets and effectively direct his firepower. I pop back into the front seat at 50 miles and closing...Fox 3!!! I hose off four AIM-54 missiles while my wingman also ripple fires. Our flight closes within 20 miles and I get a report that three F-5's are splashed. I watch the TID as the target icons spin 360 with decreasing altitude and vanish... YES!! A single bandit has avoided my million dollar missile, and I have lost contact with the small agile fighter.

I jump back into the RIO seat to try to get him locked. Shifting to the close-in radar mode, I lock the twisting F-5 below my flight and get a launch warning. My TEWS system lights up with a missile warning so I activate my jammer, break hard 90 degrees, and spit a load of chaff packets. I can see the missile's long black smoke trail, and it's not traveling at the speed of heat, so I can pull across the missile's line of sight and jink. I spoof the missile and keep closing within visual range of the F-5. BAD IDEA!

The fighter out turns me and immediately saddles me up for dinner. I instruct my wingie to go defensive, meaning he will drop everything and help me out, but it's obvious I'm out of altitude, energy and ideas. I switch to a padlock view which will swivel around tracking the enemy, but I get disoriented and, just before the bandit gets a firing solution on me, my wingman nails him with a Sidewinder. The bandit is engulfed in a huge black and orange fireball strewing out pieces of twisted aircraft, careening down to the deck. Whoaaaa...one case of whiskey to my wingie for saving my butt.

High Visibility

Graphically, *Fleet Defender* pushes the envelope of desktop computers. The texture-mapped polygon images are highly detailed, and things like panel markings, insignias and weapon stores are all rendered in detail. The cloud patterns and water effects are a pure joy to watch. Early morning and nighttime are also simulated extremely well, so the overall look of the sim is very rich. At low levels, the water has a rippling effect which gives the illusion of cresting waves.

There is, however, a performance penalty for all this grandeur—especially when venturing into enemy cities. The frame rate slows considerably as the high detail of buildings and landscapes sucks up CPU power. Fortunately, you can turn off the detail to speed things up. *Fleet Defender* incorporates various exterior views, some of which can be manipulated on both axes. These views pan slowly, and other flights can appear jerky. However, views like the LSO and Air Boss are worth the price of admission, and *Fleet Defender* strikes a very good balance between game play and pure graphic orgasm. It also supports a full complement of sound devices, and emulates engine spooling sounds and explosions with good fidelity. Digitized speech is available if you have the free memory.

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vector you to a marshaling area where you await a landing sequence. The carrier is equipped with an optical ball, and the LSO (landing signal officer) will give you verbal cues for your approach.

The actual landings and launches are fairly easy, even at the maximum tealism settings, and anyone who has flown *Flight of the Intruder, Jet Fighter,* ot *F18 Hornet* will find landing pretty routine. Stormy conditions will make things much tougher as you struggle to get lined up, but weather conditions don't affect the pitch of the deck ot cteate any nasty turbulence for you to deal with. You can practice landings by using the "cheat" key for a quick setup in the landing pattern, enabling you to practice landings from different points in the approach.

The flight model has an accurate envelope and takes altitude into consideration, modifying indicated air speed by air densiry. While not a close-in dog-fighter, the F-14 can tutn moderately well, and the radius will tighten with incteased G's. The rudders induce no roll during deflection, and stalls are preceded by a tame buffeting from which it is easy to recover. The model simulates high angle of attack accurately with the velociry vectot accurately displayed; but while you can yank the nose up all day long, the sink rate is negligible, making it difficult to descend in a nose up attitude. The graphics make up fot any shortcomings of the flight model by creating a very convincing sense of momentum, especially at low levels.

Fleet Defender has something for either the casual or the hard-core gamer. It's not a close-in dog fighter like *Falcon 3,* but is really a tactical flight simulator where you will spend most of your time in the back seat searching for targets. The product is of high quality and exhibits some very new and innovative features like extensive wingman controls, adding a new level of strategy and game play. Enemy AI is very good, and you can expect to be kept very busy in a gaggle of bandits that maneuver in both the horizontal and vertical. I found no major bugs, but I did encounter some problems with getting the wingman commands to function consistently. *Fleet Defender* does lack a modem option, which is a natural for this product, and I'm sure many head-to-head players will be disappointed. Still, even as a solo flight, *Fleet Defender* is an outstanding simulator that will serve to reestablish MicroProse as a major player in the flight sim wars. CGW

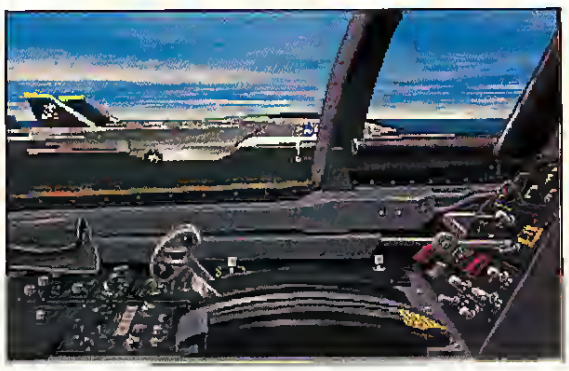
Fire, But Never Forget

Photo courtesy of Grumman Corp

Basic ACM School For *Fleet Defender*

by Tom "KC" Basham

Do you bring your F-14 back to the carrier after fiting a full sptead of 6 Phoenix? Or, do you and your RIO (Radat Intetcept Opetatot) spend enough time adrift in a life raft that the test of the crew suspects you'te practicing towing—perhaps to defect to neutral Sweden? If you said the latter, or if you fall somewhere between the two, we've got some tips fot you.



To statt with, don't try to knife-fight with the F-14. While it's hardly the worst maneuvering aitctaft in the sky, it's a far cry from the F-16 many are used to flying. In an F-16, 4g is only as far away as the afterburner détente on the throttle. In *Falcon 3.0,* a quick burst of zone-5 afterburner quickly makes 9g available to you. The F-14 lacks such acceleration luxuries. Even with full afterburner in a dive, *Fleet Defender's* F-14 is slow to reclaim lost energy. Despite having a jet engine, F-14 dogfight tactics have more in common with W.W.II prop-engined fighters than an F-16. The F-14 certainly outmaneuvets older aircraft, such as the F-4 Phantom. It has the ability for high AOA maneuvers, and performed them nearly 20 years before the MiG-29's vaunted Pugachev's Cobra, but it simply wasn't designed to be a dogfighter. The F-14 was created to shoot down hotdes of enemy bombers at long tange, before they could threaten the host aircraft carrier with cruise missiles. When flown ptopetly, limited-energy fightets can best more modern opponents, but it takes a lot of skill and just a bit of luck.

The best advice is to use the F-14 as it was intended—*killing the bad guys at maximum range.* No bandit should be allowed to close and initiate a dogfight. If a dogfight does commence, call your wingman fot assistance immediately. This gives the bandit something else to worry about. Keep your nose low and the throttle set high to maximize available energy. Spend your g-fotces wisely as needed. Don't pull 6g if a 2g turn will suffice. With any luck, the bandit will engage your wingman and present a quick, easy rear-quarter kill shot to you.

Far Wars

Long-range killing means using the AIM-54 and (to a lesser degree) the AIM-7 Sparrow missiles. In casual conversations, the AIM-54 is discussed as having a 100nm range, being totally fire-and-forget, scoring extremely well in non-combat missile tests, but considered to have limited maneuverabiliry and therefote limited capabilities against fighter-sized targets. Discussions with F-14 ctew members will dispel most of these myths, however.

First, the AIM-54 missile has an absolute maximum range around 100nm, but keep in mind that like all other air-to-air missiles, the

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rocket motor burns less than 1 minute. After that, the missile glides the rest of the way to the target. As it glides, it loses speed and maneuverability. At the maximum edge of its envelope it has little or no maneuverability left. Against a lumbering C-130, the AIM-54 Phoenix may well destroy the target at maximum range. A nimble MiG-29, however, will simply dance away from the missile. The AIM-54 is typically effective against fighter-sized targets at ranges less than 30nm. In *Fleet Defender*, I usually hold fite until bomber-sized targets are less than 75nm away and fighter-sized targets are less than 50nm away.

Secondly, the AIM-54 is generally referred to as "active radar homing" as opposed to the "semi-active radar homing" (SARH) AIM-7 Sparrow. SARH missiles require the launching platform to maintain a radat lock on the target for the full duration of the missile's flight. An active radar homing missile is usually called "fire and forget," meaning once the pilot launches the missile he can forget about it completely, confident that it will find and kill its target.

The AIM-54 is usually called a "fire and forget" missile, but that is a somewhat misleading phrase, as the AIM-54's guidance mode varies. Depending upon the mode the AWG-9 radar is in at launch time, the missile may actually fly in semi-active mode part way to the target, then go active in the terminal moments of the hunt. Alternatively, the missile may be semi-active all the way to the target, requiring the pilot to maintain radar lock, or it may even fly the entire flight in active mode. In the real AWG-9 radar, when using the TWS (track while scan) mode at far away targets, the missile launches in SARH, then goes active after a set amount of time. During the SARH portion of the flight, the F-14 must maintain radar lock on the bandit. When the AWG-9 is set to PDSTT (Pulse-Doppler Single Target Track) the missile remains semi-active throughout the entire flight. If the radar lock is broken, the missile is wasted. When the radar is set to PSTT (pulse single target track which, incidentally, is not implemented in *Fleet Defender*), the missile flies active the entire way, so the F-14 can break contact at any time.

Fleet Defender has simplified this procedure somewhat. Basically, no matter what radar mode you launch with, the AIM-54 seems to be SARH until either you break the lock, or the missile reaches a pre-defined "activation point" derived from the target information available at launch time. Therefore, the longet you maintain radar lock on the target, the less time the missile will actually be active. At 10nm from the target, the missile will go active. If you break the lock soonet, the missile will immediately go active. Although the enemy should get a lock warning on his RWR when you lock him up, he shouldn't get a missile indication until the missile goes active. So, the longer the missile remains SARH, the closer it will get to the target before going active, and the less time the target will have to react. Experiments in *Fleet Defender* seem to show a much higher hit rate when the launching aircraft maintains a lock on the target and keeps the missile SARH for as long as possible.

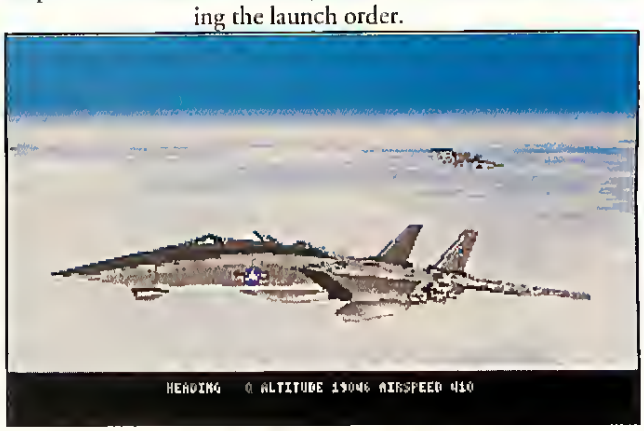
We Are Not Alone

In many ways, *Fleet Defender* bears little resemblance to previous MicroProse products, most notably in the addition of wingmen. No longer do you alone, armed with a single aircraft and eight missiles, engage the entire third world. Now, you have support aircraft, friendly fighters, and your own personal wingman. These three can save your life...if you use them correctly.

Support aircraft could be B-52 bombers, A-6 Intruders or an E-2C Hawkeye. While all of these rely mainly on you for protection, the Hawkeye is particularly vulnerable. Patrolling high above the waves, these AWAC aircraft use their powerful radar to report the positions of enemy air and naval forces to you and other fighters. When you are within 100nm of the Hawkeye, it will datalink information directly to your RIO's displays. Using this information, you can fire Phoenix missiles at long range without even activating your own radar. Using the SHIFT+P command, the Hawkeye's radar operator will report all known contacts around you.

Like all carrier assets, there are only a limited number of Hawkeyes available to you (usually 3 or 4). If these aircraft are lost, so are your long range eyes. Use the Hawkeyes mercilessly to destroy your enemy and always be ready to come to their aid. The loss of a single patrolling E-2C could allow an entire squadron of MiG-29s to ambush you from yout flanks.

Other F-14s are near you, generally flying barrier patrols called BARCAPs to prevent any enemy aircraft from approaching the carrier. They also provide a reception escott for returning aircraft, so they'll shake bandits off your tail if needed. Additionally, an extra pair of F-14s are on standby on the carrier. These *ready*-5 aircraft are armed for flight, and can be underway five minutes or less after receiving the launch order.



These other F-14s have their own jobs to do, but they'll come to your rescue, and they expect you to help them out as well. As stated, the F-14 is an interceptor first, a dogfighter second. If you find the enemy getting in too close for comfort, and especially if you're low on weapons, don't hesitate to use SHIFT + <F1> to call for help. Unless you are way off course or extremely deep in enemy territory, another pair of F-14s will be vectored toward you immediately. If possible, call for help slightly before you egress so they can cover your escape. If you receive the "no assistance available" reply, that's a not-so-subtle hint that you're a long way from where you're supposed to be, or that all other F-14s are in trouble of their own. In either case, you should hightail it back to the carrier pronto.

Cover Me

The last friendly aircraft left is the wingman, your best friend in the sky. He'll stick by you like glue, follow your orders, and protect you at all costs. Your wingman isn't disposable; lose a wingman and you'll most likely lose your own jet. Lose enough jets and you'll lose the war.

Your wingman expects you to tell him what to do every step of the way. He won't engage until you give him permission, and he won't stray from your wing without orders. He's your most powerful asset (other than your own aircraft), but he's looking to you for guidance. To begin with, he won't engage a target, even if you radar lock it and press <F2>, until you tell him to enter combat mode. Press either <F1> to order him to "go tactical" or <F3> to tell him to fly "combat spread." Either of these commands will make him wake up and prepare for battle. When you radar lock a target and press <F2>, he'll immediately attack that target.

I prefer to let my wingman operate on a longer leash. I usually proceed to the main waypoint and perform the primary mission objective while using the <F6>, "Sanitize" command to order my wingman to search for targets at my six or my flanks. I order him to "check sanitize" both sides and the rear before issuing the <F1> "go tactical" command. I wait and see what (if any) contacts he reports, then press <F1>, then again order him to sanitize the direction of the highest threat. After receiving the command, he'll cheerfully go off on his own and kill bad guys. Once that task is done, I continually order him to sanitize either side and the rear until I've accomplished the main mission.

Next month, Tom will discuss the intricacies of the Fleet Defender radar systems. CGW

QQP's Strategies of the Month

The Grandest Fleet

There are many ways to acquire victory in Grandest Fleet, A) Develop just your basic fleet and keep pumping them out. A six to eight battleship force can be devastating even against super-ships. B) Grow your economy to eventually construct super-ships. These ships are both powerful and interesting to use. If you can get your base economy to the point of building super-ships in your ports, you'll be tough to beat. C) Get your cities up in size. This will do several things to take you to victory. As the cities' size gets beyond certain levels of growth they will increase in victory point value. This can be significant. Larger cities also create more tech and resource points per turn, and when those cities are very large it is pretty tough to bomb them down in size. Carrier planes and bombers will take many more casualties when attacking large cities. D) Go into a full city-economy development. This includes; Universities, Hospitals, Downtowns, City Size, Convoys, Forts...Etc. This gives you many extra victory points per turn, unbeatable defensive position, and overall strength. Many games can be won with this approach. E) A combination of the above. The options are limitless. With all this, G.F. plays as a very in-depth game. There is still the maneuvering and building your fleets. ENJOY!!

Origamo

A puzzle game that will entertain anyone. Try all three ways of playing; Basic-Adventure-Master. These have nothing to do with the difficulty level.

Perfect General II

Tactical support aircraft is " The answer" to those pesky enemy artillery pieces hidden in woods or behind hills. But be careful - if your opponent has placed machine gunners close to this artillery your planes could get shot down. Much more on Perfect General II next month.

Zig Zag

Truly the ultimate word puzzle game for the computer. We truly believe this. The four quests are quite different from each other, even though they may not seem to be at first glance. Give each one a good try. Of all our testers, each have a favorite.

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CDs On A ROMpage

Illustration by Brian Clarke

8 Upgrade Kits To Turn Your Mundane Machine Into A Multimedia Monster

by Mike Weksler

The history of entertainment software reads a bit like a Chinese calendar. Back in the mid-'80s, when gamers spent more time swapping floppy disks than skeweting bad guys in their favotite tole-playing games, there was a Yeat of the Hard Drive. When MS-DOS gamers grew disenchanted with theit 16-color EGA palette compared to superior graphics on the Amiga and Atari ST, there was a Year of the VGA Card. Likewise, there were Years of the Amiga and a couple Years of the Apple II.

In addition to being a year of endless buzzwords, 1994 is The Year of the CD-ROM. Nearly every game publishet will put their games on CDs this year, and many have committed to going to CD-ROM as their primary delivery medium by the beginning of 1995. If you want to keep up with the gaming Jones', it looks like your next hardware investment will be a CD-ROM drive.

The CD-ROM aisle in your local computer superstore can be a bewildering place. Not unlike the laundry detergent aisle of a supermarket, the CD-ROM upgrade kit section is usually crammed with huge, alarmingly vibrant boxes that shout their content's fabulously new and improved ingredients. In this survey we'll try to get beyond the hype and look at the active ingredients in these packages and help you detetmine what kit is best for you.

Do You Even Need A Kit?

If you already have a sound card with a built in CD-ROM interface (like the *Sound Blaster Pro*), you may want to skip the upgrade kits completely and simply plug in a CD-ROM drive. With that, you're done, *finito*! Once you have those two components working, you're ready to handle just about any CD the software industry can throw at you.

If you get a stand-alone CD-ROM, I'd recommend a double speed (300 KB pet second minimum transfer throughput) with less than 350ms access time. You can find them for under $200. Why not a triple-speed drive? I've found that, for the most part, they are significantly faster for software installations, but they yield only a marginal improvement in game performance over that of a double speed CD drive. Also, talk among game publishers suggests that both the double speed and the triple speed drives are intetim products before faster CD-ROMs become available sometime in 1995. Since the triple speed drive only gives marginally superior performance at a not-so-marginally larget price, the double speed is probably the best interim buy.

What Is A Multimedia Kit?

Basically, a multimedia upgrade kit contains a CD-ROM drive, a 16-bit sound card, some means of connecting this equipment to your computet (the three wires of power, sound and data), and usually a boatload of bundled software.

When considering the sound card in an upgrade kit, there are a few things to keep in mind. Look for *Sound Blaster* compatibility—that is, genuine FM support (not software emulation!) via a Yamaha OPL2 or OPL3 chip for music and 8-bit mono (steteo for *Sound Blaster Pro*) hardware DAC compatibility for voices and sound effects. Creative Lab's cards, and anything from MediaVision or Aztech will fit the bill. Also, if the card provides wavetable synthesis, make sure that the card supports General MIDI *in addition* to native mode support. Of the sound cards available, I've found the Orchid *GameWave32* (ot the *SoundWave 32*) and the Logitech *Soundman Wave* to work with games with the least amount of hassle.

In addition to a sound card and a CD-ROM drive, you'll usually get a few CD games, some speakers, and perhaps a low-end joystick. Most of these packaged speakers are worthless. Using these speakers on a multimedia computer is like paying $3000 for a great stereo system, only to pump the music through cheap, swap meet speakers. The speakers that accompany most kits seem to come from Labtech and require a DC converter adapter. Unfortunately, the adaptet is missing from most multimedia upgtade kits. So, you must either use batteties, buy a 6V adapter, or listen to the speakers unamplified. I'd recommend either buying better speakers (Acoustic Research sells adequate models for $60-80) or plugging your computer sound system into your home stereo.

Into Each Life, A Little DOS Must Fall

Once you get yout CD-ROM drive and

sound card installed, you'll have to wrestle with conventional memory. You must somehow tuck 50K of new CD-ROM and sound card drivers into upper memory just to get your games to run! To go into detail on this subject is way beyond the scope of this article (check out my new technical tips column in the July issue!). If you're a tech-weenie like myself, it's just another memory juggling trick that shouldn't take you long to master, but the majority of gamers should consider dropping the *QEMM* or *386Max* memory managers into their shopping carts. When shopping for your kit, be sure to ask your retailer if they will install a multimedia upgrade kit for free as a purchasing incentive.

Aztech Labs, Inc.

Double Speed Pro 16

The *Sound Galaxy Pro 16L*, the foundation of this kit, is treated like *Sound Blaster Pro* (8 bit stereo digital audio) by the majority of games, and has the added benefit of an inexpensive wavetable upgrade using the Aztech *Wave Power* daughter card (with 8-bit Ensonic ROMs). While you don't have to be Werner Von Braun to install this kit, a bit of technical knowledge regarding interrupts and memory I/O addresses doesn't hurt. I found that I still had to manually install the CD-ROM drivers and do a little tinkering after the installation (which goes into Windows and installs lots of multimedia junk onto your rig). This kit is great for someone who just wants to play games, but compared to some of the other kits in its class, is priced a bit high for what you get. The speakers are a notch above most others, but there's much less software bundled into this kit. The wavetable upgrade feature, while not *Wave Blaster* compatible, is adequate, and an Aztech spokesperson said that it *should* now support General MIDI via the on-board MPU-401 hardware. Aztech provides hardware to many of the manufacturers mentioned here, so those of you who like to drink straight from the well should check out this kit.

◆ Double Speed Pro 16. Price: *$499.* CD-ROM: *LMSI CM206 (Laser Magnetic Storage Int.), double speed, min access time 325ms, caddyless.* Interface: *16 pin Philips.* Sound Card: *Sound Galaxy Pro 16L.* Games: *Jones in the Fast Lane, Battle Chess Enhanced CD, Space Quest IV.* Aztech Labs, Inc. (510) 623-8989.

Aztech Labs Double Speed Pro 16

Creative Labs

Game Blaster CD 16

After going all the rounds with multimedia kit installations, I have come to the conclusion that you just can't go wrong with one of Creative Labs' multimedia upgrade kits. Creative Labs offers several different kits in addition to the *Game Blaster CD 16*, including the *Discovery CD 16* ($449) and the *Edutainment CD 16* ($599). Each package contains a different collection of bundled software, but the hardware is identical, except that the *Game Blaster CD 16* offers more games and a SunCom *FX2000* joystick. So, if you already have a large game library and a good joystick, I would recommend that you get the least expensive double speed kit—the *Discovery CD 16*. The Matsushita *CR-563-B* drive has proven to be adequate for almost all the CD-ROM games I've played, the only hitch I've found being that, on occasion, the CD drawer must be opened and closed in order to get the CD to mount.

The kits all have variants of the *Sound Blaster 16* (either *Basic* with the sole Panasonic interface, or the *Multi-CD* variant, with adaptors for Panasonic, Sony, and Mitsumi CD ROM drives) which is wavetable upgradable with the *Wave Blaster*, one of the better wavetable synthesizers on the market. When the *SB16* was first introduced, it had some noise problems, 8-bit *Sound Blaster* compatibility problems, and driver bugs, but these seem to be less of an issue with more recent versions of the cards.

Creative Labs' installation routine is one of the best I've seen, the exception being that it won't let the user selectively install certain programs. It will configure your system easily, but then proceed to dump several megabytes of multimedia programs (MIDI sequencers, MIDI file players, authoring software, voice recognition utilities, etc.) onto your hard drive whether you want it to or not. As a footnote, I found the customer support to be excellent, especially considering that I called on a Sunday afternoon.

◆ Game Blaster CD 16. Price: *$549.* CD-ROM: *Matsushita CR-563-B double speed, min access time 320ms, caddyless.* Interface: *Panasonic 40 pin.* Sound Card: *Sound Blaster-16 Basic.* Games: *Lemmings, Silent Service II, Civilization, Railroad Tycoon, F-117A, Rebel Assault, Sim City 2000, Return to Zork.* Creative Labs (408) 428-6600.

Creative Labs

Digital Edge 3X

This kit is essentially the *Sound Blaster 16 SCSI-2* card with the Advanced Signal Processing chip) and the NEC *CDR-510* triple speed (450KB per second throughput) CD-ROM drive. Once hooked up, this combination proves to be a true multimedia dynamic duo. Games run without a hitch, and software installation from the triple speed to the hard drive was blazingly fast. Since it is rather expensive, you might find it hard to justify the extra cost of the triple speed drive unless you're pulling huge graphic files from the CD, given the marginal improvement in game performance. If money is no object, however, this is the kit for you.

Creative Labs Digital Edge 3X

◆ Digital Edge 3X. Price: *$999.* CD-ROM: *NEC CDR-510 triple speed, min access time 195ms, caddy required.* Interface: *Adaptec SCSI-2 50 pin.* Sound Card: *Sound Blaster-16 SCSI-2 with Advanced Signal Processing.* Games: *Rebel Assault, Indianapolis 500, Lemmings.* Creative Labs (408) 428-6600.

Media Vision

Super Deluxe

While the games bundled with the *Super Deluxe* may not be the cream of the crop, the sound card is some heavy duty multimedia iron, capable of running as either a *Sound Blaster*, a *Sound Blaster Pro*, or a *PAS 16*. The initial release of the *Pro Audio Spectrum 16* had some serious problems, but these problems seem to have been eliminated in the latest versions, as all of the Media Vision cards I've recently tested have performed without a hitch. The NEC *CDR-210* double speed CD-ROM is a solid performer, on par with the Creative Labs *Omni CD* (Matsushita *CR-563-B*).

Media Vision has the easiest multimedia kits to install, period. The "quickstart" option

allows you to select which superfluous programs (from a gamer's perspective) you don't want to dump onto the hard drive, and it tests the IRQs, I/O addresses, and DMAs with a pleasant female voice. The best part about the installation is that it only requires one floppy disk. The installation will configure the system for you (allowing more experienced users a manual override), and prompts you to place an installation CD in the drive and reboot the machine. After a few prompts, you can walk away. All of the other kits require you to feed floppy disks into the machine. In addition (and someone at Media Vision should receive a multimedia medal for this), the package includes a truly useful installation video. It begins with an overview of the Phillips screwdriver (really!) and steps you through the entire process. The hardware installation techniques are real-world techniques (i.e., they show you how to connect the audio and data cables to your drive *before* you screw it into the bay), and the tape is divided to differentiate between the novice and advanced user. With the concise documentation and the best installation routine in the industry, you should be up and running in no time.

The package also includes a really beefy audio cable with Fisher Price-like connectors and an extra "Y" power connector. The only drawbacks to the package are the poor speakers.

For one hundred dollars less, you can get the *Family Deluxe* kit which has essentially the same hardware, but with fewer games.

◆ Super Deluxe. Price: *$499.* CD-ROM: *NEC CDR-210 double speed, min access time 320ms, caddyless.* Interface: *SCSI 50 pin.* Sound Card: *Pro Audio Spectrum.* Games: *Critical Path, Forever Growing Garden, Buster's First Thunder Storm, Who Wants Arthur, Always Arthur, Iron Helix, Mad Dog McCree, Return to Zork, and Richard Scarry's Busytown.* Media Vision (510) 770-8600.

Media Vision

Pro Deluxe

While the Media Vision multimedia upgrade kits may have goofy names, they have good value in the form of superior installation routines, toll free customer support, and low prices. This triple speed kit is priced at $200 less than Creative Labs' triple speed kit, for essentially the same CD-ROM and similar hardware.

The *Premium 3-D SCSI-2* sound card is designed to be competitive with the *Sound Blaster 16 SCSI-2 with Advanced Signal Processing.* Both are wavetable upgradable, both

Media Vision Pro Deluxe

have 3D sound capabilities, the *Premium* uses *Sound Retrieval System (SRS),* the *Sound Blaster* uses *Qsound.* The *Premium* is the first sound card to embrace the emerging VESA audio standard.

If you find this kit on the shelves cheaper than the one from Creative Labs, it should be a good value, but I would personally wait until the new Media Vision sound hardware is battle tested. I've also found the *NEC-510* triple speed drive to run a bit on the warm side when playing audio CDs.

◆ Pro Deluxe. Price: *$799.* CD-ROM: *NEC CDR-510 triple speed, min access time 195ms, caddy required.* Interface: *SCSI 50 pin.* Sound Card: *Premium 3-D SCSI-2.* Games: *Critical Path, Forever Growing Garden, Buster's First Thunder Storm, Who Wants Arthur, Always Arthur, Iron Helix, Mad Dog McCree, Return to Zork, and Richard Scarry's Busytown.* Media Vision (510) 770-8600.

Orchid

SoundWave CD Multimedia Kit

Of the multimedia upgrade kits in this roundup, Orchid's offering seems to be most geared for the gamer. This spartan kit comes in an unassuming box that may be mistaken for just a sound card. The kit contains exactly what you need to get up and running with a double speed *Orchid CDS-3110,* a caddyless drive with, get this, a play button on the front! (First the Apollo 11 landing, now a play button on a CD-ROM drive.) The drive does have a slightly slower access time than some of the other double speed drives mentioned. Also included is an Orchid *SoundWave 32* and enough software to send you on your way. Two things however, must be assumed. First, that the user has a modicum of technical

Orchid Sound Wave CD

expertise—especially the ability to read between the lines of inadequate documentation—and second, that the user has his or her own speakers or sound system.

This particular installation was rife with the kind of complications that would have a novice user returning the kit for either additional assistance or another kit. Most kits attempt to idiot-proof their installation by at least numbering the installation disks. With this kit, we have "SoundWave/CD Multimedia Kit install disk," "SoundWave 32 Install/Driver Disk," and the "SoundWave 32 Sound Impressions Install"—three separate disks labeled "install"! Additionally, while the

Multimedia Upgrade Kit

Double Speed	Company	Internal CD-ROM
Double Speed Pro 16	Aztech Labs, Inc.	LMSI CM206
Game Blaster CD 16	Creative Labs	Matsushita CR-563-B
Discovery CD 16	Creative Labs	Matsushita CR-563-B
Edutainment CD 16	Creative Labs	Matsushita CR-563-B
Family Deluxe	Media Vision	NEC CDR-210
Super Deluxe	Media Vision	NEC CDR-210
SoundWave CD	Orchid	Orchid CDS-3110
Reel Magic	Reel Magic	Sony CDU-33A-01
Multimedia FX Prestige	Reveal	Matsushita CR-563-B
Multimedia FX Ultra	Reveal	Matsushita CR-563-B
Multimedia FX Elite	Reveal	Matsushita CR-563-B
Triple Speed		
Digital Edge 3X	Creative Labs	NEC CDR-510*
Pro Deluxe	Media Vision	NEC CDR-510*

* caddy required
** VESA audio compatible

installation for the *SoundWave 32* does not require you to play with hardware jumpers, the installation routine has some unintuitive steps. This is also the only kit which will not automatically install the MS-DOS CD-ROM extension driver, and it's easy to pass up the installation screen that informs you of this.

For the money (ca. $499), you get decent Sound Blaster-compatible 8-bit digital audio and General MIDI support, as well as MT-32 compatibility. The *SoundWave 32* card has new ROMs and sounds very good, but it's not in the league of a *Wave Blaster*.

Once installed, this kit worked as advertised. As the only kit in this survey offering wavetable right out of the box, it is well worth looking into. It's a solid product from Orchid, but I would highly recommend that the novice user seek help with the installation. On a more positive note, the one game that is included, Lucas Arts' *Day of the Tentacle CD*, packs more value into the kit than the entire software packages of some of its competitors.

◆ **SoundWave CD Multimedia Kit.** Price: *$499.* Interface: *34 pin Sony interface.* CD-ROM: *Orchid CDS-3110 double speed, min access time 350ms, caddyless.* Sound Card: *Sound Wave 32.* Games: *Day of the Tentacle, Gus Goes to Cybertown.* Orchid (510) 683-0300.

Reel Magic

Reel Magic

Imagine the wonderful next generation games with real-time, full-motion, full-screen video such that actors in uniform conduct briefings instead of depending on animated sequences. Right now, the only solution for

Reel Magic

higher resolution full-motion, full-screen video is the *Reel Magic* MPEG decoder. The card connects to your video card and plays full screen MPEG video. It can work with an existing sound card, or it can use its own hardware for *Sound Blaster* compatible music.

The Reel Magic card might be the future of full motion video, except that video card manufacturers are currently working hard to get an open MPEG playback standard on video cards. In other words, you wouldn't need an additional product to get full motion video. In the meantime, there are a few titles that support the Reel Magic with its MPEG decompression (*Return to Zork, Police Quest IV,* and *Dragon's Lair*) and they look great. In addition, you can play *Philips CD-I* DVI movies using the media player that comes standard in Windows.

If you already have a sound card and CD, you can get the *Reel Magic* board as a stand alone for $449, or if you already have a sound card, you could get the *Reel Magic Light* (cheaper, no sound hardware) for $349. If you have nothing, you can get this kit, but there are mighty slim pickings in the software arena for MPEG compatible games.

As for the installation, this one is not exactly plug-and-play, and just might require a user with a black belt in DOS. The *Reel Magic* board installation had a pretty screen that scanned all interrupts, I/O address, and DMA slots, showing unused resources in green. You can also toggle the *Real Magic* board on and off in the setup screen, toggle on and off the CD-drive, MPEG player, and sound emulation. I configured for everything and when it was all done and rebooted, no CD-ROM drive was recognized! It turned out that the installation crapped out and didn't install the CD-drivers. I can work around such things, but I'm an experienced hardware guy. The novice would be nonplused. It's a shame that the installation is so clumsy, because the upgrade kit is packaged with the care that a mother would use in sending her child to camp for the first time. There's everything you would need including an extra "Y" connector in case you run out of power connectors, and a 6-volt adapter for the speaker.

So, the *Reel Magic* package is an interesting one, but if the video card manufacturers develop their open MPEG standard, the card may not have much of a future. For the $849 price, you could get a kit that would give you more utility and a better CD-ROM drive, and leaving you enough cash to save up for an open MPEG standard video card if and when they come around.

◆ **Reel Magic.** Price: *$849.* Interface: *Sony 40 pin.* CD-ROM: *Sony CDU-33A-01 CDROM double speed, min access time 320ms, caddyless.* Sound Card: *Reel Magic MPEG/SB.* Games: *Dragon's Lair, Coupon for free Return to Zork and Star Trek CD-I full length motion picture on CD!* Reel Magic (510) 770-0100.

CD-ROM Access Time	Sound Card	Sound Card CD Interface	Wavetable Synthesis	Installation Video	Experience Required for Installation	Price
320ms	Sound Galaxy Pro 16L	Philips 16 pin	upgradable	no	intermediate	$499
320ms	Sound Blaster 16 Basic	Panasonic 40 pin	upgradable	no	novice	$549
320ms	Sound Blaster 16 Basic	Panasonic 40 pin	upgradable	no	novice	$449
320ms	Sound Blaster 16 Basic	Panasonic 40 pin	upgradable	no	novice	$599
320ms	Pro Audio Spectrum 16	SCSI 50 pin	no	yes	novice	$399
320ms	Pro Audio Spectrum 16	SCSI 50 pin	no	yes	novice	$499
350ms	SoundWave 32	Sony 34 pin	yes	no	expert	$499
320ms	Reel Magic MPEG	Sony 40 pin	no	no	guru	$849
320ms	Aztech 16 bit OEM	Panasonic 40 pin	upgradable	yes	intermediate	$449
320ms	Aztech 16 bit OEM	Panasonic 40 pin	upgradable	yes	intermediate	$549
320ms	Aztech 16 bit OEM	Panasonic 40 pin	upgradable	yes	intermediate	$649
195ms	Sound Blaster 16 SCSI-2 ASP	Adaptec SCSI-2 50 pin	yes	no	novice	$999
195ms	Premium 3-D**	SCSI-2 50 pin	yes	yes	novice	$799

Reveal Computer Products

Multimedia FX, MFX06 Elite

"Value Added!" should be stamped all over this package. Reveal stuffed this kit with 8-watt powered speakers, an Aztech 16-bit sound card, the Matsushita *CR-563-B CD-ROM* drive, and a boatload of software.

Installation is very similar to the Aztech multimedia upgrade kit, but if you have to go to DOS to tweak things, there is little reference to CD drivers in the documentation. The documentation is quite voluminous, but is more focused on the included applications and less on the hardware and installation routine. There is an installation video, but it only covers the hardware installation (the easy part) and not the software configuration (the bear!). To their credit, Reveal does have a 24-hour 365-day technical support hotline.

With the huge amount of both games and family oriented software bundled with this kit, marvelous speakers, and a good double speed CD, you might not be able to pass it up if you find it at a decent price. Most of your money will be going to the bundled software, so you may decide to purchase one of the more inexpensive kits Reveal offers, such as the MFX02 Prestige ($449) or the MFX04 Ultra at ($549).

Reveal Multimedia FX, MFX06 Elite

◆ **Multimedia FX, MFX06 Elite.** Price: *$649.* Intetface: *Panasonic 40 pin.* CD-ROM: *Matsushita CR-563-B double speed, min access time 320ms, caddyless.* Sound Card: *Aztech 16-bit.* Games: *The Chessmaster 3000, King's Quest VI, Stellar 7, Space Shuttle, Where in the World is Carmen Sandiego, Indiana Jones and the Fate of Atlantis, Dune, The Lord of the Rings, Jurassic Park.* Reveal Computer Products (800) 326-2222

Is There A Winner?

If I had to pick one kit off the shelf, it would be a toss up between the double speed *Family Deluxe* kit from Media Vision and the *Discovery CD 16* from Crearive Labs. The *Family Deluxe,* in spite of its lack of a wavetable upgradability, has the best installation procedure and offers good gaming hardware ar a low price, without a lot of useless software. The *Discovery CD 16* can be upgraded to wavetable synthesis with a *Wave Blaster,* and is priced to sell at $449. It really becomes a toss up between the two sound cards. With the Media Vision, you get *Pro Audio Spectrum 16, Sound Blaster Pro, and Sound Blaster compatibility,* and with Crearive Labs, you get *Sound Blaster 16, Sound Blaster Pro* and *Sound Blaster compatibility.* These cards are pretty close in perfotmance and when combined in a kit, either one would suit the would-be multimedia gamer. If you can find one on sale cheaper than the other, it makes the decision that much easier. If they were the same price and you were a hardware novice, the Media Vision insrall video and toll free customer support would be quite an inducement. If these things aren't important to you, or you see a *Wave Blaster* in your multimedia future, than the Creative Labs kit would be a good choice. Any of the other kits in the roundup would be a welcome addition to a computer for general mulrimedia use, but when dealing with games, it's usually besr ro go wirh companies who have a strong track record. CGW

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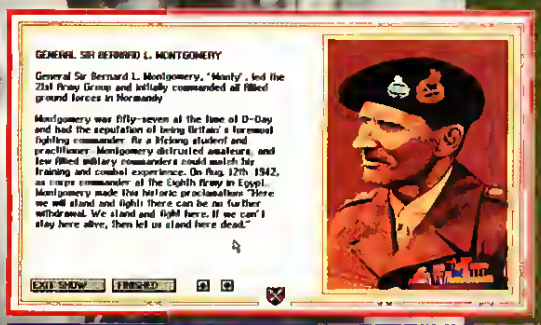

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Microcosm

Gaming In A Shoot-Em-Up Vein

by Jeff James

Fans of classic science fiction are probably familiar with Isaac Asimov's story *Fantastic Voyage*, in either its novel or movie form. In the story, a submarine full of scientists is miniaturized and injected into the blood stream of a dying politician to remove a life-threatening brain tumor. With the release of *Microcosm*, **Psygnosis** updates Asimov's inner space adventure with brilliant ray-traced graphics and animation, teamed with a motion picture-quality soundtrack. In a product which could easily be dubbed *Son of Fantastic Voyage*, *Microcosm* attempts to take CD-ROM-equipped gamers on a shoot-em'-up adventure through the fascinating inner vistas of the human body.

Your goal in *Microcosm* is to locate and destroy a microscopic brain-control probe, dubbed "Gray M", that has been injected into the bloodstream of Tiron Korsby, president of Cybertech Corporation. To reach Gray M, you must successfully complete five separate game stages. The first stage is the Cephalic Vein, located in Korsby's right atrium. The second stage is the Femur bone, followed by the Superior Vena Cava (which carries deoxygenated blood to the heart), and the Carotid Artery (which supplies blood to the brain). The final stage is where the player confronts Gray M itself: inside the Brain.

We All Live (And Fight) In A Yellow Submarine

You begin the game at the helm of a miniature submarine, looking outward as the sub races down Korsby's Cephalic Vein. As you move through Korsby's body, you will be confronted by a variety of objects racing toward your sub. These consist primarily of a hostile menagerie of geometrical objects, ranging from spiked spheres to spider-like objects. Most are unarmed and simply try to smash your sub to bits by colliding with it. Destroying these objects requires your moving the targeting cursor over them and pressing the requisite fire button/key, much like a microscopic version of the action found in the *Operation Wolf* arcade game. I couldn't help but wonder how Korsby remained breathing with so many foreign objects clogging his veins and arteries, crowding out the paltry supply of red blood cells which occasionally appear. Even though they are few, the red blood cells present a problem of their own, often appearing suddenly in small groups, forcing you to make the difficult decision of whether to shoot them (diminishing Korsby's health in the process) or plow into them, battering the submersible's meager allotment of shields. Since the Spook submersible isn't allowed to maneuver inside veins, you're faced with a kill-or-be-killed choice. Giving players the option to swerve inside veins might have made things a bit more interesting.

In an effort to provide some sort of diversity to this very basic shooter, Psygnosis places three different vehicles at your disposal. The primary craft is the Spook series submersible, a slow craft used in the Cephalic Vein and Femur bone sections. The Hunter-Killer sub is smaller, faster, and more nimble, and is used in the Vena Cava, Carotid Artery and Brain segments. Finally, a pressurized diving suit is used to finish the second half of the final stage of the game, in which you must explore the furrows and folds of the brain in order to locate Gray M.

Both the Spook and the Hunter-Killer offer three forms of arcade sequences, two of which are identical for both craft. When piloting the Spook, you have no control over speed or direction—just the targeting crosshair. When flying the Hunter-Killer, the view shifts to a rear, external view of the craft and provides a limited amount of control over its movement. The similar sequences consist of a combat in which the sub comes to a complete stop, and you assume control of a stationary laser cannon, firing at objects which charge into view. Finally, each vessel has to confront and defeat an

Microcosm

PRICE	$59.95
SYSTEMS	IBM CD-ROM (reviewed), Sega-CD, 3DO, Amiga CD32
REQUIREMENTS	IBM: 386 or better, 4MB RAM, 12MB hard drive space, VGA graphics, CD-ROM drive
PROTECTION	None
DESIGNERS	Tim Ansel, Adrian Panton, Clive Gratton
PUBLISHER	Psygnosis Ltd Cambridge, MA (617) 497-7794

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end-of-level guardian in order to pass to the next level.

A Not Quite So Fantastic Voyage

Though the gameplay is simplistic, even brainless, it still has problems. I often found control of the targeting cursor to be somewhat cumbersome. Instead of trying to race the cursor around the screen in an attempt to target faster moving enemies, placing the cursor in the middle of the screen and firing continuously seemed to yield the best results. The crosshair also has an annoying tendency to disappear when there are no enemies on screen, making the player spend an extra second or two to locate the cursor when a new wave of hostiles appears.

The preferred control method is the mouse; the keyboard and joystick seemed far too slow to be useful. Although the manual states that the joystick and mouse can be used interchangeably throughout the course of play, I discovered that when I did so, the game occasionally refused to accept input from *any* control source. Strangely, there is no method for joystick or mouse calibration, although a configuration utility for keyboard control is included.

Another annoyance with the game concerns the lack of a save-game function. *Microcosm* lacks such a mechanism, although the game does offer a limited number of opportunities to continue after one has botched a particular level.

Bon Voyage

Psygnosis reportedly used Silicon Graphics workstations to generate the graphics in *Microcosm*, and it definitely shows. The game glitters with polished graphics and animation. Lengthy animated segues and cut scenes are interspersed throughout the game. The program uses a proprietary animation technique that Psygnosis dubs Fractal Engine Technology, or FET. Astute Amiga owners may have noticed FET in action over a year ago when Psygnosis used the technology to create the *Planetside* demo displayed on the CDTV. Using fractal technology, FET can transfer large amounts of graphic data very quickly, even on single-spin CD-ROM drives. Running on a 386 with a single-spin drive, *Microcosm* performs with only a small number of pauses; on a 486 with a double-spin drive and extra RAM, pauses to load data during gameplay are almost nonexistent.

Accompanying the excellent animation is an equally excellent suite of music. Rick Wakeman (from the tock group YES) is credited with the composition of the original game soundtrack, which fits nicely with the game's cinematic animation elements. The sound effects used in the game aren't up to the same high quality, though. Explosions sound tinny and weak, and the laser cannon sounds as if it is powered by AA batteries.

Fortunately, however, *Microcosm* does support a wide variety of sound cards, thanks in part to the game's MCOSM.CFG utility. Using a text editor and a brief section in the user's manual, players can edit MCOSM.CFG to get *Microcosm* to run most sound cards. This feature is better in theory than in practice, as less-technically astute gamers may have undue difficulty in getting their sound cards to work at all. Practical playing experience revealed that the default *Microcosm* installation works well with Sound Blaster cards and compatibles: gamers with less popular sound cards may be in for a frustrating installation process. Gravis UltraSound users take note: the game does offer enhanced audio for UltraSound cards with extra memory (up to 1MB) installed.

The game's documentation doesn't help much during installation, either. Nearly half of the 32-page instruction booklet is spent on setting the stage for the game, with an appalling paucity of useful playing information. As is, the player is injected into the blood stream of Korsby without having the slightest idea of what to shoot at. The last few pages are dedicated to describing the solar system in which the game is placed. It serves well as interesting reading, but is entirely useless as an aid to gameplay. Important game information—such as the fact that bumping into vessel walls and trigger-happy shooting can kill Korsby and end the game—is strangely missing from the documentation. A one or two-page section describing the objects a player will encounter in Korsby's blood stream would have also been welcome.

Psygnosis is aware of *Microcosm*'s flaws and is promising a patch disk that will fix most of the control and audio problems; it should be available by the time you read this. Players can also contact Psygnosis at their Internet address: PSYGTECH@PSYGNOSIS.COM. Finally, less dexterous users may want to simply cheat their way through all the levels in *Microcosm* by using Wayne Sike's handy PLAYLEVL utility, which allows the five game levels to be played in any order. PLAYLEVL (also called MCPLAY) can be found in the Gamer's forum on CompuServe under the keyword 'Microcosm'. Other on-line services may carry the utility as well.

On purely aesthetic terms, *Microcosm* breaks exciting new ground in CD entertainment. The abundance of ray-traced animation and polished cut scenes gives the game a decidedly cinematic aura, with the professionally crafted soundtrack adding to the big screen feel. Psygnosis' FET technology is also a big step for gaming, and I hope we see it again in the future. Unfortunately, cool technology and a "cinematic feel" do not a game make; and, indeed, it seems that in their effort to make an audio-visual marvel, Psygnosis forgot to make a game. **CGW**

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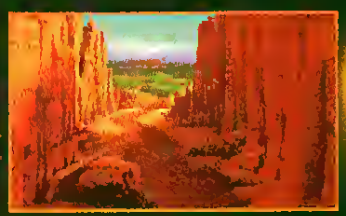

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The Polygons of Penzance

I-Motion's 3-D Actors Star In Pirated Sequel to *Alone In The Dark*

by Allen L. Greenberg

My first thought on experiencing the increased violence of *Alone in the Dark 2* was that the program's profuse polygons had surely been infected by some mysterious software virus. I had recently cured my desktop 486 of just such an infestation. Seemingly, it had been designed to implant revolutionary and anarchistic ideas into an otherwise conservative word-processing document. Having finally cleared myself of all charges regarding the overthtow of the current political system, could it be that I now faced the virus in a new form? I was well aware that normally peaceful polygons had been used to create the willful characters in the original *Alone in the Dark*. Had these same polygons, due to my carelessness, now undergone a hideous mutation into some new, nastier breed? I soon discovered to my horror, that no mere viruses were these! No, these insidious polygons had been deliberately bred to become the deadliest of villains, and the fiends now populated *Alone in the Dark 2*, the latest three-dimensional action/adventure game from Infogrames.

Once again, Edward Carnby is the hero of a macabre tale set in the early part of this century. A young girl has been kidnapped, and Carnby's partner has disappeared during an attempt to locate her. The trail leads to a classically haunted mansion located on a rocky cliff in California, overlooking the Pacific Ocean. Hell's Kitchen, as this estate is called, is surrounded by a dangerous garden maze, underground passages, hidden traps, and enough well-armed guards to protect the house from a small army. The villains responsible for the crime are a crew of pirates, most definitely not of common stock, and who share a deadly secret which keeps them from the grave. Their leader, One Eyed Jack, has established an alliance with a voodoo-wielding witch whose plans for the kidnapped girl, Grace, are not at all appetizing.

Players who were impressed with the original *Alone In The Dark*, yet found the program occupied only a few brief evenings of their lives, will find *Alone 2* to be in a killer league of its own, and not a game for those who are easily frustrated. The program serves up a sinister mix of puzzle solving and one-on-one combat, the latter of which proves to be the game's greatest challenge. More than once, Carnby will find himself captured and seemingly without hope. At these points, the story shifts to little Grace who, under your control, must find a way to free her would-be rescuer. Amazing Grace, teddy-bear in tow, has her share of puzzles to solve. She is never called upon to fight, but must strategically avoid the pirates lest she find herself imprisoned alongside Carnby.

Both *Alone in the Dark* games are distinguished by several graphic features. As already mentioned, there are the polygons that are effectively used to create animated characters which are as awkward and blocky in appearance as they are elegant in execution. While the characters in the sequel may have been refined somewhat beyond those of the original, they retain the same marionette-like movements. While they may seem on the verge of collapsing into a pile of mangled geometry, each character manages to go about his or her task with purpose and dignity. Obediently, and with great deliberation, they walk or run at your command, despite the fact that a wall or some other object may have long ago made forward progress impossible. There is definitely a charm to these creatures that you just don't see in more conventional adventure games.

The two games are also distinguished by their use of multiple perspectives or "camera angles" at each location. Thus, the point of view in one room may jump from behind the

Alone In The Dark 2

PRICE:	$59.95
SYSTEM:	IBM
REQUIREMENTS:	386-25Mhz, 2MB RAM, 14MB hard drive space, VGA graphics, supports AdLib, Sound Blaster, and Sound Source sound cards
PROTECTION:	Code cards
DEVELOPERS:	Infogrames
PUBLISHER:	I-Motion Santa Monica, CA (800) 443-3386

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hero, to above his head, and finally to a distant perspective from across the room. Often, an important object may be glimpsed from only one of these angles, and then quickly disappear when the view changes. When this happens, it is necessary to stroll around a bit until the perspective changes back to the one in which the object may once again be seen and approached. Unfortunately, many of the hand-to-hand battles which occur are not always seen from the most advantageous position, and it is often necessary to "poke and hope" at unseen combatants. Other difficulties occur in the garden maze outside the house. The maze is fairly simple, but a sudden change in perspective can scramble one's mental map and make navigation somewhat frustrating.

Carnby will not survive more than one or two head-on encounters with the pirates, so skillful use of combat strategy is the key to success. Pistols, Thompson submachine guns and ammunition are liberally scattered throughout Hell's Kitchen, and Carnby does best by finding a protected corner from which he can briefly emerge and fire at his enemies before ducking back to safety. These are supernatural enemies, and most of them require more than one or two bullets before they dramatically fade away. As the game progresses, Carnby's ammunition becomes less plentiful and his guns may be lost altogether. Fighting with a sword becomes an option, but that seems to be the one form of combat in which the pirates are better trained than the hero. Oddly enough, it seems that Carnby is at his most deadly when fighting without a weapon. He may throw a left or right punch, or put his foot directly in the face of the enemy. Most potently, if Carnby moves as close to his enemy as possible, as though he were about to dance cheek-to-cheek, he is able to pound the villain mercilessly into the ground with his forehead.

More than once, solving *Alone 2*'s puzzles will help Carnby avoid being caught in a battle in which he is attacked by multiple villains. Every object found in the game is useful, and there is no limit to the number of items which may be carried around. Being in the right place at the right time is vital to success in the game. Unless the hero is properly positioned, doors will not open and certain objects may not be manipulated or used. At one point, it becomes necessary to push a cannon into position in order to destroy a room across a hallway. This simple action may take hours of trial and error before Carnby is in the proper position to respond to the command.

In addition to weaponry, Hell's

Kitchen also contains a wealth of information which not only relates the history of the place's current evil inhabitants, but also reveals how various items lying about the house can be used to defeat them. Most important is the special weapon which is needed to destroy One Eyed Jack. A commonly used voodoo icon must also be uncovered so that it may put to rest his vampitic female companion. Also scattered around the mansion are flasks of the pirates' favorite dtink which, under most circumstances, will restore the battle-weary Catnby's diminishing supply of hit points.

The controls for *Alone 2* are similar to those used in the first game. There is no need for any input device othet than the keyboard, and this works quite well. The two vertical direction keys move either Carnby or Grace forward or backward, while the temaining directional keys spin the character clockwise ot counter-clockwise. Tapping either of the vertical keys a second time will cause Carnby to break into a swift trot, while Grace, the little darling, prefers to "skip to my lou." The program also includes the same innovative game-save system in which a screen snapshot is saved alongside the playet's desctiption of the situation. The "entet" key btings up a list of options including "fight" and "push." The chatacter's inventory list is also here, along with options which are specific to each item in that list. All action comes to a halt in this mode. This way, Carnby is able to switch weapons, reload one of his fireatms, or even take a hit-point-restoring swig from his flask without being pummeled by a bad guy as he does so.

The musical score which accompanies *Alone 2*, with the exception of some brief inspiting excerpts ftom Wagner's opera *The Flying Dutchman*, is somewhat silly, and most

players will probably elect to do without it. Howevet, the game's sound effects are a mixed bag. The sound of swords and othet weapons in battle ate very impressive, and thete is a supernatural thundetclap each time one of the undead pitates fades out of existence. Catnby's footsteps echo realistically as he walks through the giant mansion, yet one cannot help but wonder how the diminutive, bate-footed Grace makes a similar noise as she walks about. More ludictous is that each time Carnby bangs his deadly forehead into an enemy, he lets out a grunt that more resembles an exptession of indigestion than it does a battle cry.

For a game which demands as much physical effort to defeat as does *Alone 2*, the ending is somewhat of a letdown. It comes aftet several white-knuckled battles, including one against an acrobat on a nartow, wooden beam high above the ground. These final battles are so intense that it would be foolish not to save the game to disk aftet each victory. Unfortunately, the only rewards are a brief explosion and little Gtace waving "bye-bye."

Despite its weak ending, as well as some othet irritating moments, *Alone 2* is a good, solid challenge. Much more so than its predecessor, it will test players reflexes as well as their minds. Make no mistake: the polygons ate back, and they are hungry. **CGW**

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First Place, Numero Uno, Top of the Line, Apex, Gold Medalist—Premier! All of these terms point to the pinnacle of authority, the peak performance or the preeminent product in its field. This has always been true of the *CGW* Game of the Year Awards, a selection of the best computer games of the commercial year from both a critical and popular perspective. This year, we have shortened the eligibility cycle to move toward a calendar year awards process; added multimedia awards (any multimedia product released before press time was eligible for these awards); and finally, named our awards — The *Computer Gaming World Premier Awards.* So, even though we've given Game of the Year Awards in the past, this year's presentation of the *CGW Premier Awards* is something special. So, break out the champagne, pass out the confetti, put on your tux or formal, and launch the fireworks, it's time for the premiere unveiling of *The Computer Gaming World Premier Awards.*

GAME OF THE YEAR

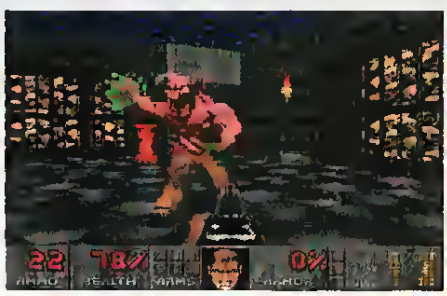
Doom

We heard about it everywhere we went, "DOOM!" We were asked about it whenever gamers congregated, "DOOM?" We tossed off accolades about its smooth scrolling, its detailed texture mapping, its network capability, the aural impact of its visceral violence and its deranged graphic look—*DOOM*. We printed stories about companies where employees faced a *DOOM* of career-crisis proportions if they were caught booting the game. We thumbed through countless cards from readers stating that "*DOOM* rules!" "*DOOM* uber alles!" and "*DOOM* is awesome." The #1 rated game in our Top 100 was *DOOM*.

The Doomed Team (l to r): Sandy Petersen, Jay Wilbur, John Carmack, Adrian Carmack, John Romero, Dave Taylor, Kevin Cloud, American McGee, Shawn Green

We had *DOOM* fests in our offices on the network and played what was *virtually DOOM VR* with a flying mouse and head-tracking unit. On-line services and BBSs became filled with *DOOM* editors and new levels. It seemed that whenever and wherever computer games entered the picture during the latter part of 1993, *DOOM* was the first syllable on our lips.

So, with its technological excellence and near-universal approbation from the gaming public, what better game to name as the first *Computer Gaming World* PREMIER Game of the Year, our equivalent to the Academy of Motion Picture Arts and Sciences' "Best Picture" award, than *DOOM*? If you liked the monsters in *DOOM*, you can credit the back story by Sandy "Call of Cthulhu" Petersen and the artistic excellence of Adrian Carmack and Kevin Cloud, along with model builder Gregor Punchatz. The techno-wizardry that enabled you to play so many hours of smooth-scrolling, monster-blasting fun was brought to you by John Carmack, John Romero and Dave Taylor.



DOOM is a first-person perspective action game with smooth scrolling as players face 3-D modeled, texture-mapped monsters. It is technologically important because it offers advances over id's *Wolfenstein 3D* engine, which was licensed and modified for other commercial games, and is much imitated in the world of computer games today. Congratulations to the PREMIER Game of the Year.

ONLINE GAME OF THE YEAR

Multi-Player BattleTech

Those of us who love on-line games find that the fictional universes they depict are pleasant escapes from the mundane normalcy of our everyday lives. On-line games become colorful refuges, mindlife preserves, and cyburban retreats where our alter egos, those game characters whose back stories we keep stored within our minds, live more exciting, successful and sometimes, fulfilling lives than we do during the average day in the classroom, courtroom, factory, field, hospital, laboratory, legislature or office. Most people who play on-line multi-player games spend as much time talking about what they've done in the game universe as they do playing the games themselves. The finalists for this year's awards are no exception. They are worthy of plenty of talk.

MPG-Net introduced a masterful translation of *Empire Builder*, the boardgame of railroad building in the U.S. and Canada from Mayfair Games. The Imagination Network brought out a new version of *Shadow of Yserbius: Fates of Twinion*, their extremely successful on-line fantasy role-playing game, as well as

3-D Golf, a multi-playet version of *Wilson Pro Staff Golf*. Tim Wissemann's *VGA Planets* deserves special recognition for being the first BBS game to be nominated for this award. Award winners have always reptesented simultaneous multi-player gaming rather than PBEM, simply because it's harder to accomplish, but the editors felt that the impact of *VGA Planets* made it worthy of an Honorable Mention in this category.

The PREMIER On-Line Game of the Year is *Multi-Player BattleTech*, the GEnie game designed by Kesmai Corporation. The game lets the gamer control his/her destiny as a MechWarrior in the pre-Clans BattleTech universe. Gamers enlist in the military or mercenary units of their choice, and the universe is dynamic in that individual battles impact upon the on-line universe. Battles are fought from 'mechs, giant robotic vehicles of destruction, in a simulation that looks like Activision's classic *MechWarrior*, but performs significantly better with real human 'mech pilots on your flanks. There ate plenty of fans of the novels and boardgame who make this less of a game, and more of an alternative lifestyle.

ACTION GAME OF THE YEAR

Prince of Persia II

Jordan Mechner

With *DOOM* capturing overall honors, the contest for PREMIER Action Game of the Year was reduced to a four-way slugfest between four significant games. Origin's *Privateer* brought capitalism and piracy into the universe of *Wing Commander*. The game advanced the graphic look of the series somewhat and introduced a free-wheeling open-endedness for the players who chose not to follow the story line. Origin's *Shadowcaster* (Brian and Steve Raffel with Victor Penman) added art, role-playing elements and story to a modified *Wolfenstein-3D* engine. LucasArts' *Rebel Assault* (Vincent Lee) established a new record for CD-ROM game sales as well as a new model for action games based on film properties. Not only did the game feature digitized footage from one of the most successful film series of all time, but it offered game sequences with a 3D feel, enabling the player to slew through canned animation sequences.

The winner of the PREMIER Action Game of the Year is *Prince of Persia 2: The Shadow & The Flame* from Broderbund. It isn't surprising that Jordan Mechner (*Karateka* and *Prince of Persia*) would offer a smoothly animated horizontal scrolling thriller with cinematic scope, vivid action and daunting puzzles. He's done it before. The original *Prince of Persia* was a masterpiece of animation, blending the action from feature film footage with animated sprites to create very realistic characters. What is surprising is that the sprites (moving characters) and backgrounds for *Prince of Persia 2* can be as detailed as they are without reducing the fast, fluid action quality to the game. The sequel certainly surpasses its predecessor and well deserves the crown of PREMIER Action Game of the Year.

ADVENTURE GAME OF THE YEAR

Day of the Tentacle & Gabriel Knight

Tim Schaefer

Jane Jensen

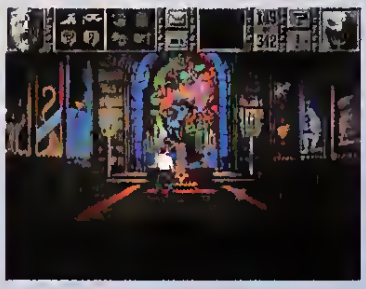
Dave Grossman

The very word "adventure" conjures images of exploring strange and dangerous environments, venturing into uncharted realms, foiling the diabolical plans of archetypal enemies, solving mysteries and having unusual experiences. The entire graphic adventure genre is filled with detailed plots and fascinating settings and characters. Sometimes, the adventure milieu is handled in a very serious fashion. Sometimes, the adventure is set within some rather zany parameters. This year, we celebrate both types of adventure game.

Broderbund's *Myst* (Rand and Robyn Miller) is a puzzle-driven experience with detailed 3-D rendered sets where the exposition is unveiled via QuickTime movies. The gamer faces diabolical puzzles and an overarching dilemma with regard to trust. Activision's *Return to Zork* (Doug Barnett, Eddie Dombrauer and Michele Em) tries to put the Infocom back into the game genre with its emphasis on puzzles, while simultaneously using Hollywood talent and sophisticated techniques to up the ante of production values. *Star Trek: Judgment Rites* is Interplay's second foray into building graphic adventures on the classic television show. This time, the episodes are richer, and the "*Enterprise* as space fighter" flight model is optional.

Day of the Tentacle

Yet, the editorial staff found itself torn between two very different, but highly rated graphic adventures: Sierra's *Gabriel Knight: Sins of the Fathers* (Jane Jensen) and LucasArts' *Day of the Tentacle* (Tim Schaefer & Dave Grossman). Both rated highly with our readers and both offered new approaches in terms of art direction for computer games. We felt that the former was the best dramatic presentation in this genre, and that the latter was the best comedic presentation in the graphic adventure genre. We also didn't want to duplicate the tendency in motion picture awards to assume that the drama is automatically superior to the comedy (an assumption that seems true in every critical community except France). So, the co-winners of the PREMIER Adventure Game of the Year award are *Gabriel Knight: Sins of the Fathers* and *Day of the Tentacle*. *Day of the Tentacle*'s fluid animation sequences underscore a strong script and solid game play. *Gabriel Knight* introduced elements from graphic novels (diverse splash screens, dark color palettes, illuminating facial perspectives, etc.), nightmarish dream sequences and a dark human story that reads and plays extremely well. In general, it would be reasonable to say that story won out over technological innovation in this genre.



Gabriel Knight

ROLE-PLAYING GAME OF THE YEAR

Betrayal At Krondor

John Cutter

Role-playing is a subset of the adventure game genre. Where adventure games focus on the puzzles and stories, CRPGs tend to emphasize chatacter gtowth or skill-building. This year, every title among the finalists btought a terrific new look to tole-playing. New World Computing's *Darkside of Xeen* featutes the most impressive linking of two CRPGs in computer game history. Jon Van Caneghem's dark counterpoint to his earlier *Clouds of Xeen* title is a majot step in the advancement of vittual world building, since you can bounce back and forth between two linked game envitonments. Westwood's William Alan Ctum and Philip W. Gotrow designed *Lands of Lore. Lands of Lore* featutes impressive special effects that some said couldn't be done in the MS-DOS world and a delightful story that blends together many of the classic fantasy archetypes of shape-shifting.

MicroPtose ventured into the world of CRPGs fot, perhaps, the last time with *Bloodnet.* Developed by their fotmet Pennsylvania development group, *Bloodnet* is a gothic tomance gone cyberpunk. The script by John Antinori and Laura Kampo, which mixes vampirism and hacking, is one of the most intet-esting to hit this genre, and the suttealistic aspects to the att style are definitely fascinating. *Dark Sun,* ftom Strategic Simulations, Inc., is the long-awaited "new engine" fot games produced under the TSR *Advanced Dungeons & Dragons* license. It is also one of the last TSR-licensed products to be published by SSI. Russ Brown and the rest of his team managed to captute the uniqueness of the magic system and "scotched earth" look of Troy Denning's Prism Pentad series of novels.

So, in a yeat of stiff competition, the winner of the PREMIER Role-Playing Game of the Year award is *Betrayal at Krondor.* Published by Dynamix and designed by industry veteran John Curter, with significant assistance from fantasy author Raymond E. Feist, *Betrayal at Krondor* is the quintessential example of how a computer game should be built from a fantasy novel. It is favoted by our teadets because of its play value and non-linear story, and it is favored by our editotial staff because it seems to be the product that took the most creative risks. It featutes a bold use of the company's proprietary 3-Space (3-D) technology, lavish use of digitized images, a fascinating magical system that is built upon the magic in the novels, and the skillful blending of new story elements with the history and characters ftom the much loved novels.

SIMULATION GAME OF THE YEAR

IndyCar Racing

IndyCar pit crew (l to r): S. Dalton, D. Kaemmer, O. Khudari, K. Butters, and R. Garcia.

Damon Slye is a perpetual contender in this category. Though he has won in the past, *Aces Over Europe* features a look and feel that is too close to previous efforts fot the gteat sim designer to garnet this year's awatd. However, Dynamix continues to accelerate the performance of products in Damon's *Great War Planes* series, and its position as a finalist in this category undetscores the quality of this series. Spectrum HoloByte's *Tornado* (Kevin Bezant, Nick Mascall, Tony Hosiet, Robin Heydon and Matthew Smith) offers the most versatile and tealistic mission planning approach that flight sim fans have ever been able to use. It is positively brilliant in its operational model.

Domark took a differtent path with *Flight Sim Toolkit.* Jonathan Newth and David Payne have created a "Power to the People" product *extraordinaire.* We have never seen such an ambitious project in our combined years of covering computet games. This construction kit allows you to actually build a commercial-looking flight simulator to your specifications. Though the product may require too much work for it to achieve the popular appeal of some of the other finalists, it is a welcome and innovative addition to the simulation genre.

Paul Grace, Sonny Hays, and Andre Gagnon decided to simulate something completely differtent. Instead of using the first-person viewpoint out of a vehicle's cockpit, windshield, ot view-slit, they elected to ptoduce a simulation of infantry combat in the jungles of Vietnam. Electronic Arts' *SEAL Team* is the first simulation to treat infantry combat with the same detail as would a game of armoted ot aetial combat, and it is one of the most sensitively handled treatments of the Vietnam Conflict that we've seen.

The PREMIER Simulation of the Yeat goes to Papytus Software for *IndyCar Racing.* David Kaemmet's textute-mapped exteriors race through the twists and turns of an IndyCar season atop lightning fast polygon models. Kaemmer is attentive to detail in modeling how everything from wind, tite wear, gear ratio, wing angle, tire qualiry, engine fatigue and physical damage affects the performance of a high performance car. *IndyCar Racing* also features modem-to-modem play and lots of high performance chrome in terms of replay action and camera angles. It is the motor sports aficionado's dream come true.

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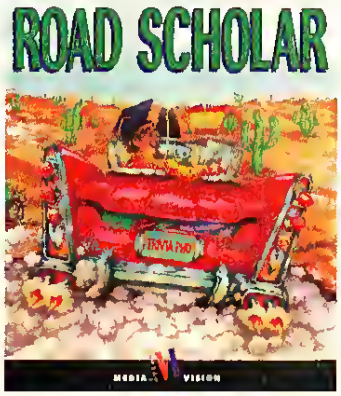

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MULTIMEDIA AWARDS

To celebrate the launching of multimedia as an integral part of the computer gaming world, we selected four categories in which we would present PREMIER awards: Best Voice-over Acting—Male, Best Voice-over Acting—Female, Best Musical Score and Best On-Screen Performance. Selections were made on the basis of performance expertise, artistic value added to the game, and appropriateness to the medium. Acting for computer games is very different from any other type of acting. Actors in a multimedia production have to run through scenes for numerous possibilities, often without having an ensemble of other actors with which he/she can work. Also, note that though this year's winning performances were published in games which we considered excellent, future awards may yet arise from games with limited play value but sterling performances. Unlike the PREMIER awards for the games themselves, eligibility for the multimedia awards was open to every game published by press time. Multimedia games are still a new enough approach that we needed a wider eligibility span in order to see a significant number of performances.

BEST ON-SCREEN PERFORMANCE

With a unanimous vote, the editorial staff chose Michael Gregory as the first winner of the award for the PREMIER On-Screen Performance in a Multimedia Game. Gregory plays the evil chancellor in *The Horde* (from Crystal Dynamics). A film veteran with parts in *RoboCop* and *Total Recall* under his belt, Gregory had the advantage of performing in film vignettes with a live cast as opposed to providing a solo performance in front of a Chromakey or Ultramatte screen like many computer game performers. Nevertheless, we found ourselves particularly impressed with the way Gregory communicates via body language and facial expressions, even in scenes where he has no speaking part. He literally steals the show from male lead Kirk Cameron, and gives gamers an incentive to keep playing until they can force this campy bad guy into eating his words. Michael Gregory well-deserves his position as winner of the first-ever acting award in this new medium.

Michael Gregory

BEST MUSICAL SCORE

The capacity for CD-quality audio and the evolution of sound cards in terms of quality and performance, make this an optimal time for introducing a PREMIER Musical Score for a Multimedia Game. Though we listened to plenty of musical performances that we enjoyed, most of the editors preferred Burke Treischmann's original music for *The Horde*. Not only do we like the funky, whimsical riffs within the score, but we appreciate the way that every type of terrain or genus of hordling has its own musical theme. The music adds to the game by shaping the mood and intensity of each level in the game, and it is safe to say that every track on the CD has something musically unique about it. Just listening to the various tracks is like listening to an album by an avante garde jazz performer.

Burke Treischmann

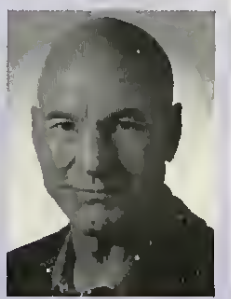
BEST FEMALE VOICE-OVER ACTING

There were plenty of fine performances by women in multimedia games, but the narrator in *Gabriel Knight* captured our fancy. Virginia Capers offers just the right balance between ethnic accentuation, playful whimsy and mood-setting suspense. We initially expected to give this award to a performer who was portraying a specific character, but we were totally overwhelmed by Capers' performance as the narrator. Her performance alone makes it worthwhile to purchase the CD version of *Gabriel Knight: Sins of the Fathers*, so she is the inaugural recipient of the PREMIER Award for Best Voice-over Acting (Female) in a Multimedia Game.

Virginia Capers

BEST MALE VOICE-OVER ACTING

The winner of the first-ever PREMIER Award for Best Voice-over Acting (Male) in a Multimedia Game is Patrick Stewart. From the initial stentorian tones heard in *Lands of Lore*, the role-playing *magnum opus* from Westwood Studios, we never had a doubt that the Shakespearean actor and television star was perfectly cast as the royal monarch. His vocal range gives a sense of urgency and reality to the game as the story unfolds.



Patrick Stewart

SPORTS GAME OF THE YEAR

Front Page Sports Football Pro

Patrick Cook

The finalists in the Sports Game category offer superior performance in a number of categories. *Cactus League Pro Basketball* (Cactus Development) by Ralph Rhoades offers in-depth strategy and an exciting challenge in player management. Largely a text game in a year of 3-D blockbusters, we nevertheless honor this game for its accurate replays, detailed stat disks, and exciting game play. *APBA Baseball For Windows* from Miller Associates is similar. Though the most recent version has added a new graphic look with more appeal for the average gamer, it is still the statistical model and replay accuracy of this new game, like its venerable ancestor, that commands everyone's attention. Yet another sport is represented in *NHLPA Hockey.* Electronic Arts took the most successful hockey game in the cartridge world (so successful that it was reviewed favorably in *CGW,* a rare event for cartridge games) and expanded its horizons to offer league play, a larger view of the rink and more user-customizable features. *NHLPA Hockey* is an adrenaline pumper with new refinements for hockey addicts.

All of the finalists mentioned so far are worthy products, but the championship bout was fought between the two groundbreaking football products: MicroProse's *Coaches Club Football* and Dynamix' *Front Page Sports Football Pro.* Both offer intriguing new 3-D perspectives and both appear to be the results of exhaustive research. The designers of *Coaches Club Football,* Ed Fletcher (who worked on the original *Wayne Gretzky Hockey*) and Doug Whatley (an industry veteran releasing his first design), had the advantage of working from an actual NFL coach's playbook and took great patience to design even the newest NFL rule changes into the product.

The winner of the PREMIER Sports Game of the Year is *Front Page Sports Football Pro* from Dynamix. Since its inception, *Front Page Sports Football* has been the leading football game among our readership, and the addition of real players and statistics in the latest edition makes it even better. Graphically, *Front Page Sports Football Pro* is still the clear leader, and the customized coaching profile allows you to create realistic leagues with AI coaches that have the tendencies you specify. Plus, NFL fans like the fact that *Front Page Sports Pro* offers all of the "off the field" fun of personnel management through trades, drafts, and replacing injured players. *Front Page Sports Football Pro* is, to dare, designer Pat Cook's masterpiece and his *Front Page Sports Baseball* is sure to be a contender in this category next year.

STRATEGY GAME OF THE YEAR

Master Of Orion

Stephen Barcia

Something old and something new entered the strategy genre during this year's period of eligibility. Software Toolworks unveiled another incarnation of their classic *Chessmaster* series. The scion of *CGW*'s Hall of Fame member, *Chessmaster 4000,* proves that Software Toolworks still has the capacity and will to improve their best-selling chess engine. This year's model is more competitive than ever with not only the expected stronger chess engine, but refined artificial opponents who do an excellent job of emulating classic grandmasters via an exhaustive 17-variable model. Electronic Arts' *Kasparov's Gambit* is, on the other hand, a chess game for the "rest of us." The emphasis of the game is on tutorial, commentary and classic game libraries. Both games are beautifully crafted, and the nod would have to depend upon whether you were looking for a great opponent (*Chessmaster 4000*) or a great teacher (*Kasparov's Gambit*).

Will Wright and Fred Haslam are also no strangers to a list of finalists in the strategy genre. *SimCity 2000* is their latest entry in the world of system simulations. This advanced city simulator adds many of the features and considerations that were previously lacking in the original *SimCity.* It offers more types of energy, transportation and funding to meet the needs of discriminating mayors *ex machina* everywhere.

Strategy classics were not the only products in the offering for this year, however. Two other games put new subject matter in the strategic orbit. First, Several Dudes Holistic Gaming teamed up with QQP to present *Merchant Prince,* a strategy game that captures the greed and treachery of medieval Italy even more than the classic *Machiavelli* boardgame from The Avalon Hill Game Company. *Merchant Prince* allows you to build up wealth and power via three different tracks: ecclesiastical, economic, and political. Everyone has to use some of all the tracks, but it is up to you which approach will be your primary vehicle to incontrovertible influence and preeminent prestige. (Hint: The church is easiest.)

Second, the inimitable Jeff Tunnell turned his fascinating *The Incredible Machine* engine into a strategic tribute to cartoon violence and invention, *Sid & Al's Toons.* If you've ever wanted to try your hand at designing the latest Wile E. Coyote-style

contraption, *Sid & Al's Toons* gives you all the computerized Acme parts you'll need to succeed. It's a difficult game to describe because it moves beyond the boundaries of the genre into a new generation of software toys.

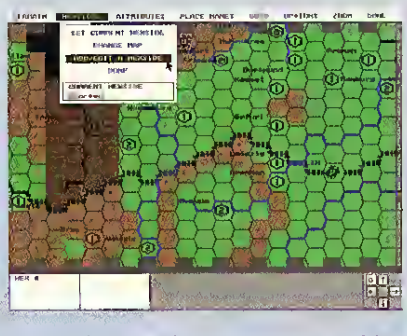
The PREMIER Strategy Game of the Year is Steve Barcia's *Master of Orion* (MicroProse). Steve's company, SimTex Software has created a game that is worthy of being called "Civilization in Space" because *Sid Meier's Civilization* is the game with which, because of its strategic depth and addictive quality, it is most often compared. Like the winner of two years ago, *Master of Orion* offers multiple tracks for victory and even advances beyond its distant cousin because it adds a complex diplomatic web of intricate intrigue and builds upon a technological model that is not merely cosmetic, but forces tactics to evolve. This game epitomizes and expands the "Conquer the Galaxy" motif in strategy gaming.

SPECIAL AWARD FOR INNOVATION

Aide De Camp

Scott S. Hamilton

This year, the editors of *CGW* wish to present a Special PREMIER Award for Innovation to Scott Hamilton of HPS Simulations for *Aide De Camp*. Billed as the wargamer's friend, this unique product allows even the clumsiest gamer the opportunity to convert his/her favorite boardgames into computer moderated (Play-By-Electronic-Mail-capable) versions of those games. The maps can be as beautiful or functional as you want, and the whole process is easy-to-accomplish. The product comes complete with generic terrain sets and the tools to build your own. It has a capacity for redefining the properties of each terrain tile in order to accomodate the movement restrictions and combat effects of said terrain. It provides for easy road and river design by letting you point and click from centert-point of each hex and connect the dots. It has simple tools to let you convert game counters into on-screen reproductions, even if you don't have artistic talent. We've never seen anything this versatile for meeting the varied and often obscure interests of wargamers. We think it's the most user-friendly design kit this side of scanning maps and counters directly into your system.

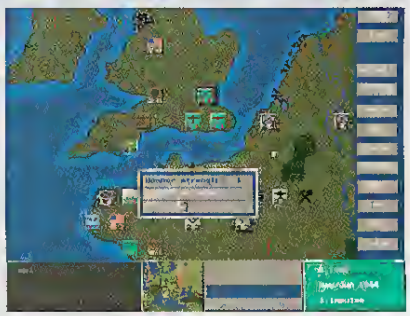


WARGAME OF THE YEAR

Clash of Steel

Sequels and new versions fill out the roster of finalists for PREMIER Wargame of the Year, but the award goes to an original design. The final release of the *V for Victory* series is *Gold Juno Sword*. Released by Three-Sixty Pacific and designed by Eric Young and Keith Zabalaoui, the game refines the system with better artillery and supply rules, as well as a cleaner interface. Although basically a sequel, the improvements to the system brings it to the realms of wargame finalist.

High Command is the Three-Sixty Pacific release of an ambitious, sometimes overly economic model of the European theater of WWII. A refinement of the previously released game, this strategic *tour de force* by Gregg Carter and Joey Nonnast offers more hard data than the previous incarnation and a more comprehensive economic model. This is the wargame of choice for those who want a detailed, realistic simulation.



The heir to a previous CGW Wargame of the Year, *Warlords II* (Strategic Studies Group) takes the award-winning game system and enhances it with more and randomly generated maps, hidden terrain, and more diversity in unit types. The AI presses SSG's approach to a new high in versatility and competitiveness. Designers Steve Fawkner, Gregor Whiley, Roger Keating and Ian Trout have managed to add an expanded diplomatic wrinkle to the basic strategy of the game, as well.

In *Walls Of Rome*, Ali Atabek, Scott Baker, Paul Kellner, and James Thomas bring the *Siege* game system to its full maturity. Unfortunately, this occurred as the demise of Mindcraft as a publisher was imminent. In this sequel to *Siege*, the AI is less predictable than in the previous releases, the historical research is extremely solid (including many obscure battles that you can't find anywhere else and historical uniforms/banners which are something of a miniaturists' dream), and a multi-player modem capacity that takes the game up another notch in our opinion.

German designer Martin Scholz created the PREMIER Wargame of the Year for Strategic Simulations, Inc. *Clash of Steel* takes a classic, marketable wargaming subject—strategic warfare in WWII's European Theater—and gives it a boost in terms of playability, interface, and historical chrome/personality. Although the AI is respectable, *Clash of Steel* is particularly excellent as a multi-player "hot seat" game (played at the same computer). It offers the right amount of historical depth, but never frightens the gamer with unnecessary details. Everything is accessible, useful and enjoyable in this well-conceived design. CGW

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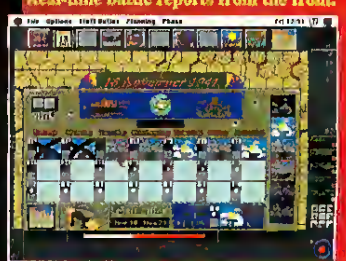
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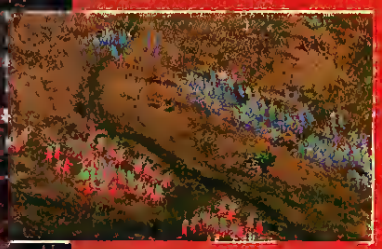

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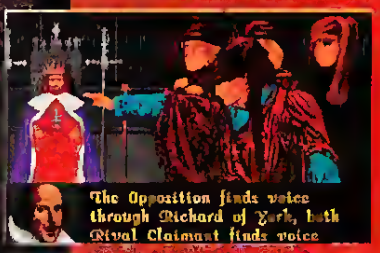

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"Football" Frenzy

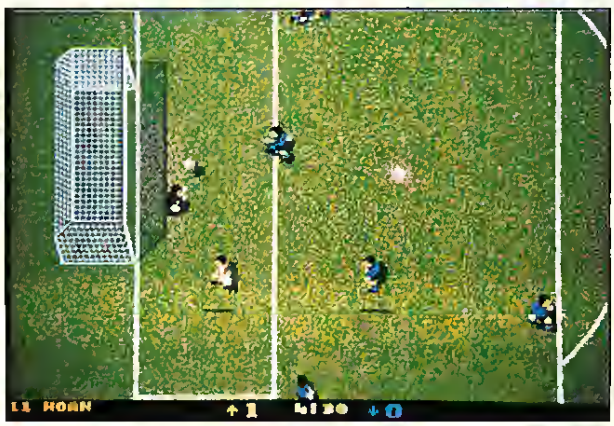
A World Cup Soccer Roundup

by Paul Rigby and Derek Dela Fuente

As far as we Brits are concerned, there is only one "Football." It's played with a round ball and not that funny-shaped excuse for a bladder that those grunting, padded refrigerators throw at each other. The word "Soccer" is an abomination that should be expelled from all dictionaries and wiped clean from all memories of the world's population. Football is all about flair, intricate passing, vision, spectacular goals and crunching tackles.

Unfortunately, the idea of seeing England win the World Cup, which is about to take place in several US cities this June, has been reduced to a bit of a personal dream. Abysmal tactical play and poor player selection from the team manager (now ex-manager) have eliminated England from participation at the World Cup, the holy grail of football. From Germany and Brazil to far-off Austtalia and exotic Cameroon, the best teams from all over the globe will compete in this premier sporting event. Of course, as the host country, the USA has an automatic place in the tournament, rather than having to qualify.

For those enlightened Americans who are switched on to the football scene and are getting into the mood of the World Cup, here's a personal selection of our top six football games from the UK, Europe and Japan. We have tried to cover all types from the managerial game to the action/tactical examples. The choices are tough, because there must be 30 or so different football games floating around on different formats at the present time. Anyhow, here's the kickoff...



Precision and timing are crucial in the fast-paced action of *Goal*.

SENSIBLE SOCCER (Sensible Software) Available on: Amiga, IBM, SNES, Gameboy

Sensible Software, one of the leading UK software houses, has released its own version of football on every format over the last two years. The most recent releases have been on Nintendo's SNES and Gameboy. In the debate over the best football action/tactical game, there is no doubt that Sensible is in everyone's top three, no matter what format. All the versions look the same with the usual top-down view presented. After a few bits of management setting formations and tuning the player's skills, you can jump jump right into the game. The Gameboy version is one of the best games on this particulat system. Will we see a Jaguar or 3DO offering? The chances are very high. The game is fast and responsive, with plenry of tricks, a huge playing area, and precise controls. In short, it's a class act.

GOAL (Virgin)
Available on: Amiga, IBM

The first thing you notice in this top-down view, tactical game is the wealth of menu options to be chosen befote actual play begins. I personally appreciated the Practice option, because it gave me a chance to work on my dtibbling, passing, shooting and corners at my own pace before I moved into the game's more serious level of competition. In addition, all the usual options are available. The field conditions can be set for normal, muddy, wet or Wembley, the latter emulating England's national stadium. Match duration can be set between one and 20 minutes for each half. Goalkeepers have levels of hard, medium or easy, predominantly changing the speed of the goalie's actions.

Replays are fairly standard, although a nice change here is the ability to replay each goal automatically and to be able to save a replay straight to disk. Choice of scale allows a zoom in/out function to operate either automatically or by pressing the space bar in order to change perspective. The viewpoint for the game is basically from a bird's-eye perspective. So, zoom-in gives a bigger and more detailed view of individual players, while zooming out allows you to see more players and a greater deal of the playing field.

Once the options have been altered, you may select your team. A single match gives the

Wembley offers a tough challenge for any of the potential 144 visiting teams in Virgin's *Goal.*

options to choose from any of the 144 predefined teams (the Virgin employees team is good for a laugh) or create your own. After viewing their individual statistics for stamina, aggression, etc., players are selected from a squad of 28. The speed of play ranges from Novice to the ultra-fast Ace.

Control of players follows the tried-and-true method, with built-in inertia allowing the player to build up speed when running with the ball. This means it is hard to change ditection for a quick cross-over into the penalty area. A player's pace and stamina decide how quickly he is able to turn within a confined space, fake out the defendet, and burst to the net in true Bobby Charlton style.

Defenders have four ways to stop potential goal-bound attacks: a slide tackle coming in from the side; a block tackle by getting between an attacker and the ball; intercepting a pass; or simply by fouling. Fouls may result in either a free kick, or no foul called, depending on the referee. A nice touch is the variety of referees from which to choose.

When a free kick is awarded near the goal, a dotted line appears, allowing you to set the direction, length, and height of the kick. Defenders will form a wall that can be adjusted from one to seven players. Also, corners and thtow-ins have a more realistic feel than in most games, because they use the dotted boundary lines properly.

WORLD CUP SOCCER '94
(Sierra) Available on: Amiga

This game is being programmed in the UK, which is somewhat unusual for Sierra. More significantly, it is a football game which will be released only on the Amiga for the European market. Release on other formats depends upon the success of the Amiga version.

The programmer is Steven Dunn, who works alone at his home, just a mere six miles from MicroProse UK. His previous work included the coding for *Starglider 2* and *Hammerfist.* The new football game has taken him nearly a year to complete.

The game initially looks like *Sensible Soccer* and plays in a manner similar to that slick title. Many subtle differences, however, ensure that *World Cup Soccer '94* is in the Premier League of football games.

The familiar overhead view of the game is used, but this time, it is vector based. Surprisingly, the players don't look too weird, and the pitch and scrolling ensures that most of the playing angles can be viewed. You can even see the goal rotate and retain its form as player movement occurs in its vicinity. As a

Your vector-based opponents play a surprisingly good team-oriented game in *World Cup Soccer.*

player veers to the side to contact the ball, a full view of the goal is seen from the player's perspective, as opposed to seeing an inanimate goal at an incorrect symmetrical position. In addition to having the proper look and feel as the angle of the goal moves, it gives you the opportunity to shoot (and possibly score) from a very acute angle.

Control of the players is standard with fluidly scrolling banana kicks and good attention to inertia and heading. The computer intelligence in the game ensures that the players work as a team. For instance, if one of your players is sent off the field in *Sensible,* there is a hole left on either defense or offense. With *World Cup '94,* the game system fills this hole with another player who, in effect, takes on a double role. Even the throw-ins are innovative and simple. When a throw-in is taken, the three nearest players on your team will run around close to the player with the ball and are highlighted. When a player is spotted and targeted the ball will be thtown to him. This is far more intuitive than any similar feature seen in other games.

Like any good football game, however, it is only as good as the user. All the teams are seeded, based on the designer's research of team and individual player skills. The great teams you would expect are included, and all of the teams can be adjusted in terms of skill. Possession of the football requires plenty of skill, but it is well worth the effort. After a game's completion, statistics are posted pertaining to time of possession, shots on goal, etc., making this a worthwhile purchase for the stat fan.

PREMIER MANAGER 2
(Gremlin)
Available on: Amiga, IBM

Last November Gremlin's *Premier Manager* shot straight up to the top of the UK charts. It has stayed there ever since and is now acclaimed as one of the better management

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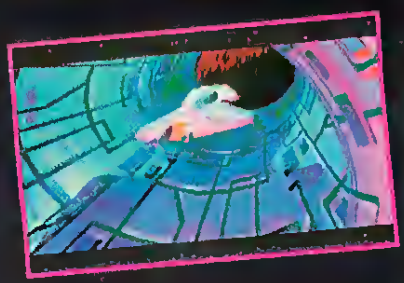

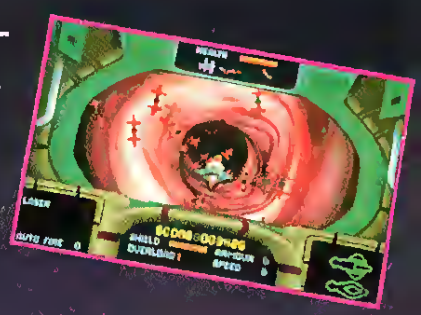

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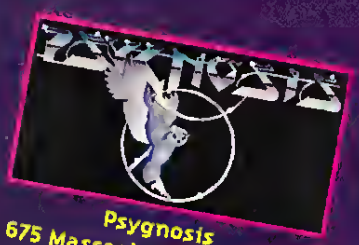

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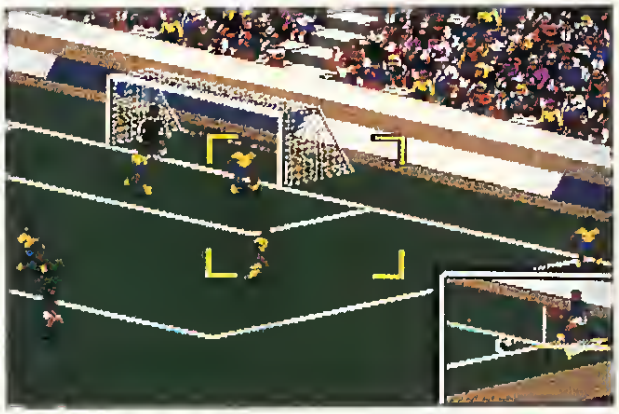
games on computer (if a little ptedictable in the AI stakes). The facet that appeals to most players is that it is highly intuitive, but also requires a reasonable level of skill. From the moment the game is loaded up, the playet becomes engtossed in the world of football management.

Now, Gremlin retains all of the original ideas, with added features to make the sequel, *Premier Manager 2*, the best in its class. A Conference League has been added to help develop yout player skills befote you move on to the Premier League. A two-playet option is also included, plus detailed match reports of all the games being played. If a continental flavor is mote to yout liking, see if yout managerial skills are up to the French ot Spanish Leagues.

In addition to the different leagues, the new version offers 16 unique playing formations and eight selectable playing styles, including individual morale and fitness levels. The graphic look of the playing fields has been improved, and you may even set ticket prices and the level of crowd control. Weathet conditions are variable enough to sometimes te-sult in postponements. The new challenges requite you to balance up to 64 sponsors while simultaneously struggling with playet contract negotiations. From the eight training camps to the limit of four foreign players in Eutopean competition, you will have no lack of managetial decisions to make.

Although other management games may have a glossiet look, *Premier Manager 2* is the tops as far as gameplay is concetned. Changing tactics subtly affects the outcome of a game. Fitness is a key component, especially during long matches that featute extra time or, for successful clubs, who have to deal with a congested fixture list. Player statistics are important, but knowing when and whom to substitute is the critical decision in who will win a particular game. Ball conttol is often more important than defensive or shooting capabilities, particulatly when setting the pace early in a game. Later on, mixing the endurance and speed of youth with the experience of veteran playets will generally provide a successful sttategy. The best patt of *Premier Manager 2* is that you can apply a variety of diffetent types of management styles to produce a successful football team. All in all, a classic football game.

Sudden weather changes can make scoring difficult in *Premier Manager 2*.



Human goalies are often distracted by the lush fields of *FIFA International Soccer*.

FIFA INTERNATIONAL SOCCER (Electronic Arts) Available on: Sega Genesis (SNES forthcoming)

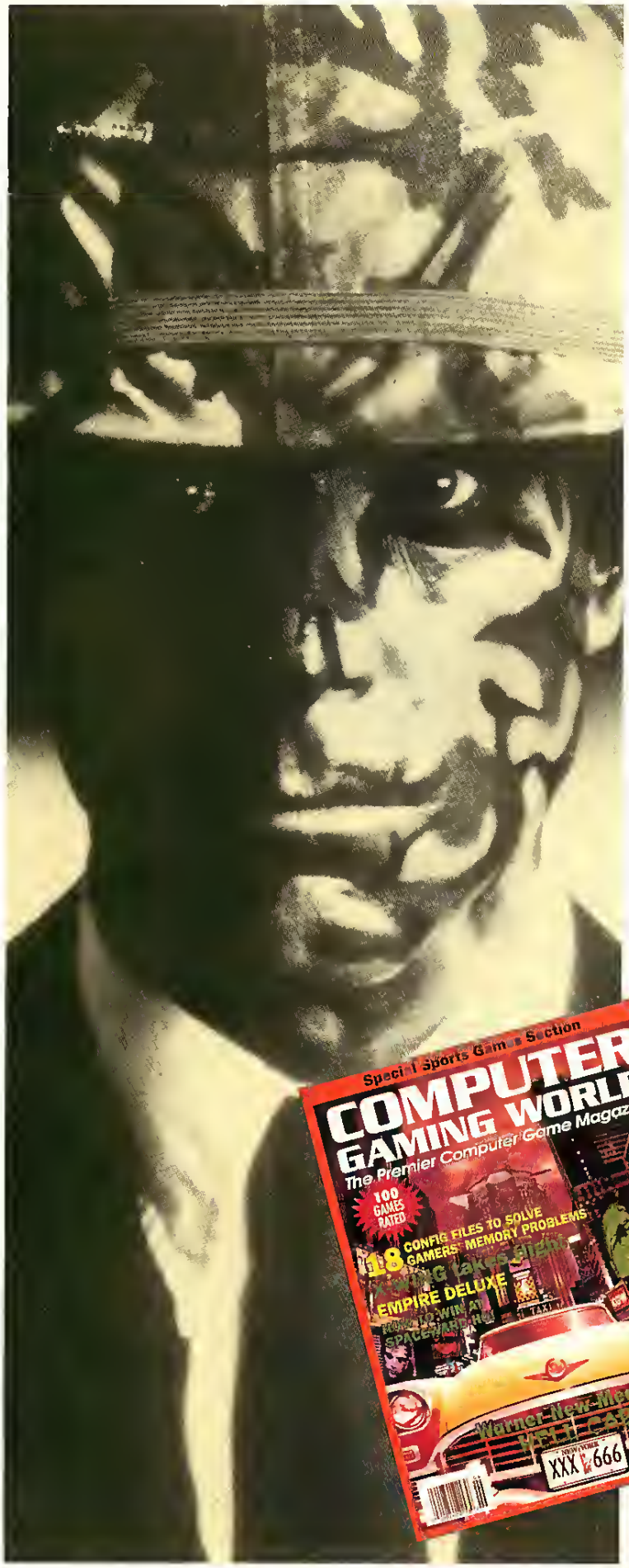
With the official license of FIFA (the wotld football governing body) combined with the expertise of the world's leading softwate company, you have a right to expect something good...but *this* is stunning. *FIFA International Soccer* is a temarkably complete simulation of the sport. The numerous options include league play (with exhibitions, play-off and tournaments), computer or human-conttolled goalkeepers, adjustable fouls, and a vatiety of time settings. The new fout-way, multi-playet adapter is suppotted, and up to eight players can compete together ot even team up against the computet.

Play begins with the crowd toaring, a good example of how the sound support enhances play. The controller pad allows you to finely execute ball control, player moves, and kicks with consummate ease. The perspective of the game is just above and slightly to the side of the pitch. This adds the feeling of speed to the game, and the superb overview makes passes and anticipation vety natural duting play. In no other game can you achieve such a high degree of pinpoint accuracy when passing. The clever design allows for playets to be assigned both offense and defensive stances at midfield. Thus, the transition of the team from offense to defense is accurately simulated. Playets may also be positioned fot full defense ot all-out offense by assigning them to specific areas of the field.

The impressive conttols allow short passes or Pele-style power kicks ftom 40 yards out. Your only limitation is in how quickly you can master the conttols. When putting in the ftantic action, the designers didn't neglect the simulation aspects. Illegal ot dirty plays will cause your team to be a few players short. Also, unlike many games, these referees see everything (pethaps these chaps temembered their glasses!).

Final Wrap Up

So, that describes the top division of football contenders which ate cuttently available on the digital pitch. We don't expect every gamer to choose the same game as his ot her favorite, but we think we've handicapped them well enough for everyone to start their own World's Cup. CGW



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Return To *Arena*

Magic And Character Classes In Bethesda's Role-Playing Epic

Last month we stepped into Bethesda's *Arena* and looked at this epic game's main features, but due to space and time constraints I only mentioned the finer details in passing. In particular, I was only able to give the character classes and the detailed magic system a cursory glance, so this article will fill in the gaps and get into the meat of these meaty features.

Got You Under My Spell

As noted last time, the magic system is very flexible in that spells can be purchased ready-made, and unique spells can be created from scratch through the Spellmaker at any Mages Guild. My experience was that with most spells, especially offensive spells, it's better to "roll your own" than to buy "off the rack."

The typical offensive spell comes with a certain base damage, modified by the level of the caster. For instance, Shock does a base damage of 1-35 points, plus 1-5 points per level. This makes it rather weak in killing power. Nice against goblins and orcs, perhaps, but not really all that great against, say, an iron golem.

I found it better to reverse that, starting with low base damage and large increments per level. Cold Death, one of my favorites, did a base 5-15 damage, plus 25-40 per level. An expensive spell, in points, for low-level mages to cast, but well worth it in killing power.

The same holds true for protective and utility spells. Shalidor's Mirror, an off-the-rack spell, gives a 40% chance, plus 2% per level, of reflecting an incoming spell back at the enemy caster. Compare that to Improved Reflection, which starts with a base 1% chance, increasing by 14% per level.

Of course, you can go too far with custom spells. Depending on class, the most points a magic-user can ever have for spellcasting ranges from 100-300 points. The cost to cast a spell declines as character level rises, but if a spell starts out requiring a lot of points, you may have to wait a very long time before it can be used.

Spells can be created with multiple effects, such as a combination of paralysis and continuous damage (nasty), but these, as you might expect, cost more to buy and more to cast in spell points. I found it simpler and more efficient to concentrate on sheer firepower. Blowing a critter out of its tracks with a shot or two is always preferable to fancy stuff. The best enemy is a dead enemy, and the sooner it's dead, the better.

With that in mind, there is no question that the best mage class for firepower is the Battle Mage. Offensive spells in Spellmaker are cheaper for Battle Mages and also cost less to cast in spell points. I had two main spellcasting characters: Kali the Dark Elf Nightblade (a thief/mage), and Orvaal the Breton Battle Mage.

Kali had to pay 1740 gold for Cold Death; Orvaal only 936, and that for a slightly more potent version (25-45 increment instead of 25-40). At level 18, Kali needed 48 magic points to cast it; Orvaal, only 26. A well-equipped Battlemage is probably the most deadly character in the game.

Actually, any properly-run mage is deadly and will have an easier time of it than the non-spellcasting classes. They can sneak around invisible to all but the most potent monsters. They have protection against physical and magical attacks. They can float over lava and dissolve walls in their way. They can cast death from near or far. And they don't really need a lot of spells to accomplish all that. Neither Kali nor Orvaal had more than about 15 or so spells in their spellbooks.

Other professions can simulate these effects with potions or items. For example, a fighter might have a buckler with levitation spells on it, or a dagger with Passwall, or some invisibility potions, or a longsword with lightning spells in it. These are all helpful, but don't really compare to having the ability to do all that on a regular basis.

Further, the level of spell on an item is fixed, while spell potency for mages increases with their levels. So that longsword of lightning will always do the same damage, however advanced your fighter, whereas a mage's lightning spell becomes ever more deadly as the mage advances.

Mages of all types therefore have a tremendous advantage in *Arena* and are the best choice of character to play. Of course, it is possible, although difficult, to get through with a non-spellcasting character. For that, a Knight is probably the best way to go. Knights have good hit points, can wear any armor, and use any weapon. They also repair weapons automatically, so by carrying a couple and switching around now and then, weapons never wear out or break.

The least advantaged class is the thief. Except for the spellcasting Nightblades, thieves do not have an easy time at all. Let's face it, a thief's forte is stealing, not solo dungeoneering. There is no scope at all for thiefly activities (aside from lockpicking) in the dungeons. Thieves can't try to slip past a monster, or sneak up and backstab it. Once in a dungeon, thieves are no more than third-rate fighters, with mediocre armor and hitpoints.

I ran Shadow, a Dark Elf Assassin, through several dungeons. He didn't do too badly, until he came up against the Wraiths with their devastating fireball spells (those spells are potent!). Two

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shots and he was cinders. Trying to get him across the room to the monster (so it couldn't cast spells) while guzzling healing potions by the case, was a frustraring experience.

Wrairhs weren't the worst of my problems. Still ahead were fire daemons, vampires, and liches, all of whom have powerful spell attacks, can see invisible advenrurers (so can Wraiths), and hit very hard in melee, roo. I couldn't see Shadow getting past all that withour truckloads of healing potions, a lot of luck, and many resrores. So I abandoned him and wenr on to Kali the Nighrblade, who of course had a much easier time of it, being a spellcaster.

So while thieves may be fun to run in town where they can burglarize, pick pockets, and steal from shops, they aren't rerrific, or even good, when it comes to following up the main line of the game, which is getting those sraff pieces out of the dungeons.

One thing to watch out for is creating new characters after running an old one for a while. After Shadow had gotten the second staff piece, I decided to look at some other character types. I went back to "create new character" from inside the game and made up a Monk.

She came, brand-new, with two staff pieces already in her inventoty and the sewer map already filled in; the same thing happened with two more characters I created. It was only after exiting the game completely and re-running it that I got new characters with proper inventory and hlank sewer maps. Always start fresh when making up new characters.

It's A Rich Man's World

Money is of interest to all classes, although in somewhat different ways. Warriors need it to buy the faney plate armor that not only protects, but enhances physical srats, as well as to purchase fancy weapons with spells on them. These things are, of course, expensive. Between those and a good supply of potions for healing, curing disease, etc., fighters are always in need of cash.

Mages have it (again) easier. Since weapons and armor are restricted for them, spellcasrers don't have to spend much on equipment. Their money goes into building a nice collection of spells. Once thar's taken care of, mages only need gold for a good supply of Restore Power potions and a few orher types as backup (always bave a couple of backup potions for emergencies).

Thieves can'r wear the fancy armor, but they can use some of the fancy weapons. That, and a raft of potions is what they spend money on. Thieves will generally end up with the most cash and not much to buy with it.

Gold can go pretty far in this game, too, because all prices, except for Spellmaker and identifying irems, can be bargained down from list. Mundane sruff is amazingly cheap to begin with, and any character can be completely outfitted for very little right after exiting the dungeon. This is a nice change of pace from all those other games that wanr your life savings just for a suit of leather armor.

The betrer items, weapons and armor with enchantments on them, naturally cosr more. Still, good bargaining can get rhem for you at more reasonable prices. There are even special festival days when items are half-

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price to start with, and can be bargained down from there. The mages guild has festival days, too, when everything (except Spellmaker and identification) is half-price; these are good days to stock up on potions.

Raid!

As reported in the previous article, *Arena*'s big problem (aside from nor having much of a plot) is that the game is buggy. Four patches already, and a fifth is in the works as I write this. Obviously, the game was released far, far too soon, with less than adequate playtesting.

Nothing I ran into was fatal (that is, prevented winning the game), but others have had problems because the dungeon levels reset when you leave them, although not always completely. One unlucky player was making his way through Labyrinthian, the second staff piece dungeon, and came to a dead halt.

This place has two doors that require special keys to open. He found the first key, unlocked the door, then headed for town to cash in his goodies. On his return, he discovered that the first door was locked again, only this time, there was no key to open it...and the only way past that door is with the key. Restoring to a previous save, before the first door was unlocked, was the only option. That's a lot of time and progress lost.

So it is best, especially in dungeons that have magically-locked doors requiring keys, to stay in there until the dungeon is completed. Otherwise, you may find yourself at a dead end, with much to do over. This problem is being addressed in the fifth patch, but until it becomes available, better safe than sorry.

Bethesda, I will add, has taken steps to ensure that all patches are downward compatible. This means that if you have used an earlier patch already, the newer one will not require you to start over; none of your progress will be lost by upgrading with a later patch. Further, if you are playing the original release, adding any patch will not force you to start over. Given the size of the game, that is an important consideration, and kudos to Bethesda for making this effort. [*Although Bethesda has gone to great lengths to ensure that Arena patches are backward compatible, one CGW editor did have his save games corrupted by the 4th patch. This was apparently a rare case. To ensure that you do not have problems, Bethesda suggests that you make sure you are not in the middle of a quest when you apply a patch. -Ed.*]

I didn't mention the endgame last time (don't ask embarrassing questions why). It takes place on the bottom level of the Imperial dungeons, you vs. Tharn. I found him a rather difficult opponent and opted for the easy (relatively speaking) method of defeating him. I've been told that it's possible to defeat him in battle, but going by my own experience, that could be a long-term project.

Afterwards comes a brief story sequence, then your character is whisked out of the dungeon and deposited back in the Imperial City. At this point, you can save the game and go on to other things, or save the game and continue exploring the world of Tamriel.

Whichever, you will probably want to save your character for the sequel. For that, you have to back up all the related save files to floppy. There are ten save positions, and the related files end in ".00" to ".09". So if your final save is in the first position on the save screen, you'd copy off all files ending in ".00". If it's in the fifth position, you want all files ending in ".04", and so on, up to ".09" for the tenth save. Keep those disks in a safe place; I expect that the next game will show quite a few improvements over the initial entry in the series. CGW

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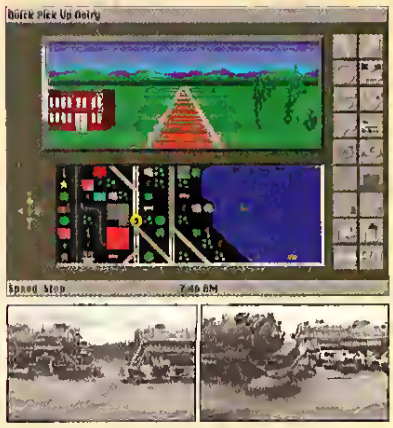

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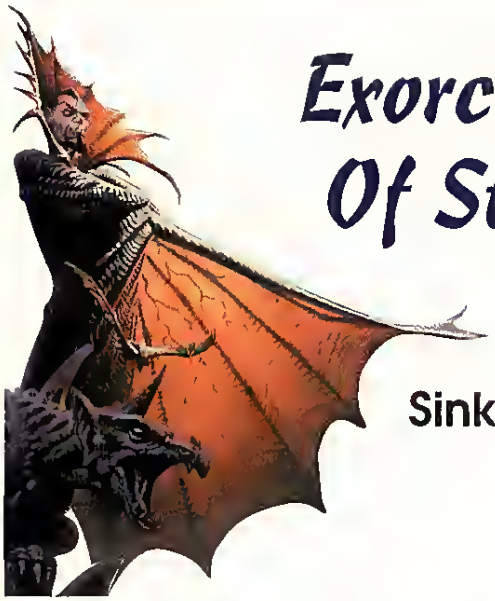

Exorcising The Madness Of Strahd's Possession

Sink Your Teeth Into SSI's *Ravenloft*

by Petra Schlunk

The suspension of disbelief, the sense of being there, of feeling one's heart pounding before opening yet another door—the creation of a game atmosphere conducive to such things is both one of the most difficult elements of game design to achieve and one of the most necessary components of a good role-playing game. Strategic Simulations' *Ravenloft* (developed by DreamForge) manages to blend the elements of a first-person 3-D environment, with sound and story into a work replete with just

such an insidiously credible atmosphere. From the introduction where we discover that Lord Dehlt of Elturel has been attacked by a foul assassin who has stolen the Holy Symbol of Helm, to the closing scenes, *Ravenloft* invites us to become part of the story.

After Lord Dehlt's Holy Symbol is stolen, you are sent to recover it from the assassin. Upon recovering this amulet, your party is surrounded by mist and transported to a forest in a new world. The amulet is gone and the party is trapped in this new place (Did you really believe that recovering the amulet would be *that* easy?). From these woods, your party must find the village of Barovia and uncover clues which will lead to both the recovery of the lost Holy Symbol and an exit from this world. In your way are large and deadly dungeons, vicious monsters, and the evil Count Strahd. But, we are getting ahead of ourselves; we need some adventurers first!

Fortune Deals Its Hand

Bearing in mind that your purpose is to find some adventurers, you cautiously enter a fortuneteller's hut (noticing how similar the furnishings are to the gypsy's wagon in *Ultima IV*). Cards are dealt and from these cards you choose your character's gender, race, character class, alignment and portrait. Character attributes are rolled up randomly, but you can modify the attributes up to the maximum values for the character's race.

While up to four characters can eventually be enlisted for the party, you only begin with two. Naturally, this means that you are expected to meet many characters in your travels and that some are likely to offer to join you. Consider all such offers, even when your party is full. Dismissed party members can always be found again, eager to return to adventuring, and their belongings automatically transferred to their willing replacements!

Before You Can Walk

The newly created pair of adventurers will find themselves in hot pursuit of Lord Dehlt's would-be assassin. Ah, but for this pursuit you must learn how to move, and movement in the world of *Ravenloft* has many forms. You may move by clicking on the movement arrows at the bottom of the screen, by holding the left mouse button down and positioning the cursor in the screen, by using the numeric keypad, or by just moving the mouse around after activating the "free mouse movement" option. You can also choose to move with the default smooth scrolling interface or with the "step movement" feature. Step movement is not recommended because the mode's angular, 90 degree movements make navigating dungeons and facing monsters during combat almost impossible.

Having figured out how to move, your party runs wildly after the assassin and corners him! Well, he is not about to hand over his stolen goods, is he now? That means combat!

Combat is real time and virtually identical to that in many of SSI's previous role-playing games (such as the *Eye of the Beholder* series and *Dungeon Hack*). Fortunately, a new feature has been added to this game in which everyone may attack simultaneously by clicking on the attacking monster, assuming they are close enough to engage in hand-to-hand combat. I found that the most effective way to deal with hordes of monsters was by clicking madly on the screen while using the nu-

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PROTECTION: None
DESIGNERS: Chris Straka, Thomas Holmes
PUBLISHER: Strategic Simulations, Inc., Sunnyvale, CA (408) 737-6800

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Actual IBM screen shots

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meric keypad to turn and face the monsters that slipped behind my party.

Note that most encounters are predetermined and, once cleared out, a dungeon stays that way. However, nocturnal excursions to any location outside of the dungeons will result in numerous random encounters.

Everyone knows that magic is particularly helpful in CRPG combat, but in *Ravenloft*'s case, it can work *against* your party. Choosing spells to cast during combat occurs in real time! That makes casting spells a poor option in most circumstances because your fighters tend to be sitting ducks while your cleric or mage is frantically trying to find the right spell! Unfortunately, this is not the only problem with the magic system, because the spell-casting menu obscures your characters' portraits and, more importantly, the information on how many hit points they have left and how much damage they are taking. This can lead to unexpected and unnecessary fatalities.

Many monsters are hard to hit, deadly and, worse, undead! Most of the undead monsters can drain levels, and there are no restoration spells or items in this game. So, saving frequently is essential (a "quick save" feature is helpful here). Since frequent saving and reloading can be inconvenient, it is fortunate that monsters often act as if they suffer from some sort of curse upon their movement AI. As a result, they have trouble figuring out how to turn and walk through doorways, and this allows you to stand back and fire either missiles or spells at them without risking damage. In addition, most monsters will ignore your party if you've cast an Invisibility spell. Eventually, I found that the easiest way to get through most of the dungeons was by traveling under an Invisibility spell and repeatedly firing a magic Dagger of Throwing (found early in the game) at all monsters in my path.

Finally, there is one especially irritating problem with combat: monsters have an occasional tendency to materialize or move on top of your party! You will not be able to see the monstet or hit it unless you move away. Turning around will not help. Characters have been known to die ignominiously while spinning frantically looking for an attacker who is, presumably, standing on their head!

After combat your party can rest to heal and to memorize or pray for spells. Resting occurs without interruption everywhere but outdoors. The only requirement for a peaceful night's sleep is that no monsters are within your range of sight. This is especially useful in dungeons where you can quickly slip around a corner or down a stairwell and catch a nap before returning, refreshed and recharged with spells, to combat.

Cartography Made Easy

Having mastered the essentials of combat, you can begin exploring the interesting places in the world of *Ravenloft*. Forests, caves, catacombs, an eerie cemetery and foreboding buildings, such as the immense and fearsome Castle Ravenloft, all await your vigilant exploration. Fortunately, your lengthy peregrinations through such regions and edifices are recorded by an elegant automapping system. The maps (which can be saved and printed) indicate doors, items, nearby monsters, NPCs, teleporters, illusionary walls (only after they have been discovered) and trapdoors. Unfortunately, the maps do not show buttons (frequent features of the dungeons that can be difficult to find) or stairwells. The ability to write on the maps can help you make up for this oversight, since all maps are accessible at any time, and you can easily remind yourself of places that remain partially unexplored.

On your journeys you will encounter many people. Conversations are easy to begin; simply position the cursor of your mouse over characters and left click. This starts an animated sequence in which the character speaks to you and text appears on the screen. Through conversation, you will learn more about Barovia, the surrounding lands, and your quest, as well as acquire new party members. At times unintentionally amusing and at other times appropriately evocative, conversations in *Ravenloft* are always entertaining and one of the best features in the game.

On Possessions (Yours, Not Strahd's)

As you travel, you will find many useful items. Although characters have a limited cartying capacity based on their strength (an overly encumbered person will be less effec-

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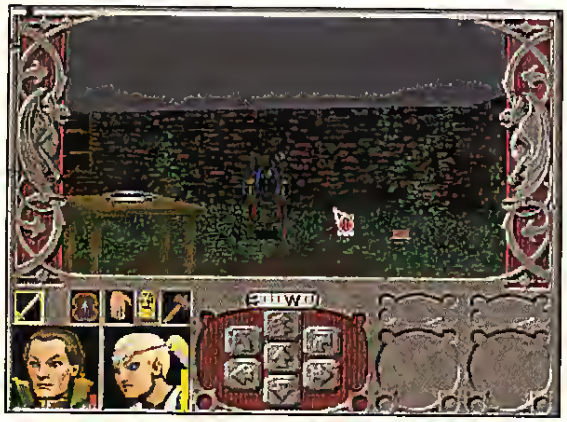
tive in combat), this does not really present a problem. Srrong characters can carry an enormous number of weapons and armor without approaching the limit of their carrying capaciry. You can place items directly in characters' hands from the adventuring screen, allowing both a rapid determination of whether a particular weapon can be used by a character and the quick perusal of documents. Unfortunately, inventory management can become painful because you can only equip armor and rings from the inventory screen and stote, use or drop objects by going back and forth between the adventure and inventory screens.



Puzzle solving does not play a prominenr role in *Ravenloft*. Most puzzles are of the make-sure-you-have-explored-everything variety. That means walking along walls to find secret passages or buttons, exploring all rooms in dungeons and buildings to find important items, reading everything and ralking with everyone. By doing this, almost all puzzles will solve themselves. All thar will remain is following up on the leads you get from NPCs and from books or manuscripts.

There are a few optional subquests in *Ravenloft*. Completing one or more of these subquesrs is highly recommended since experience points are difficult to acquire (at best, you may get a pure mage or thief up to level 12). Fortunately, rhe outcome of the final battle againsr Srrahd depends less on rhe levels of your party members than it does on their having completed the appropriate steps in getting to that point.

Reversal Of Fortune

The biggesr problems wirh *Ravenloft* have nothing to do with the game design. Movement speed varies widely, occasionally slowing to an aggravating crawl. Also, the CD version of the game frequently locks up. This occurred most often when exiting the game and while using the automap. A few times, saved games were losr, corrupted, or caused problems with my hard drive. So, be prepared for a few extra headaches when playing this version of *Ravenloft* and be sure to save frequently using different saved game slots.

Encore!

Aside from a few technical problems and a somewhat cumbersome interface, *Ravenloft* is a solid, thoughtfully designed and enjoyable game. While the music varied in effectiveness, the graphics and sound effects (many of which will be recognizable to those who have played other SSI games) added greatly to the feeling of suspense and discovery. The animation sequences are entertaining and the narration is superb. Best of all, *Ravenloft* has the one thing that makes me want to replay a role-playing game: because the game is basically fun and not roo long (about 40 to 50 hours on a first pass), once you know how everything works and what you will find, you can think about what rhe "best" starting party will be to make the most efficient use of the items and NPCs found in the game! In my opinion, this "what if I started with..." quality makes *Ravenloft* a valuable contribution to rhe world of computer role playing. CGW

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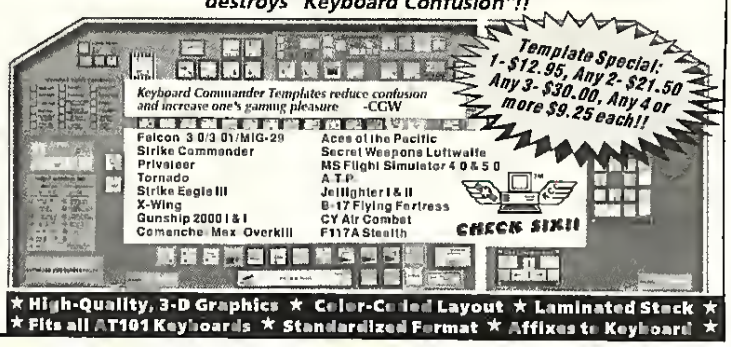

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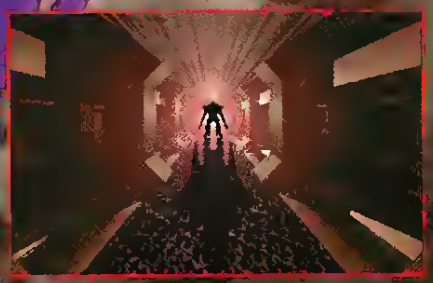

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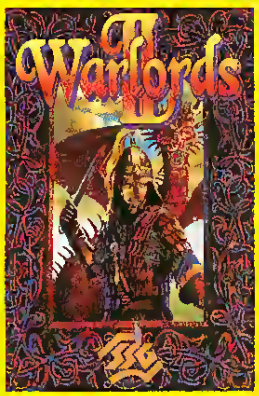

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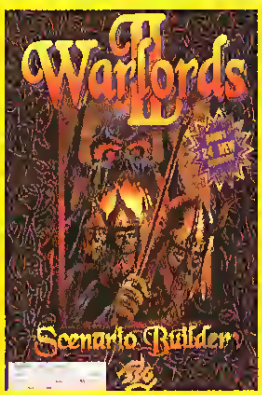

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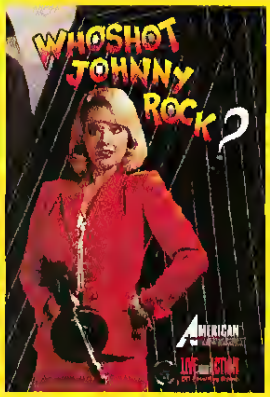

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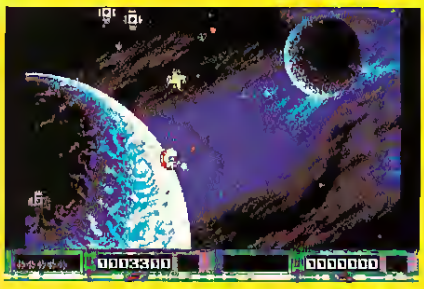

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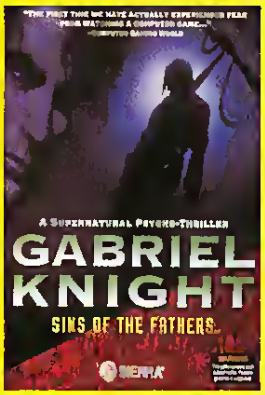

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Scorpion's MAIL

Get A Clue!

Return to Zork ■ QFG IV: Shadows of Darkness ■ Simon the Sorcerer Forge of Virtue ■ Lands of Lore ■ Companions of Xanth ■ Serpent Isle ■ Sam & Max Hit The Road

So here we are in the back room again, floundeting in a sea of mail sacks. And we were making such good progress getting the place cleaned out, too. Now that summer is about to pounce, Fred is thinking more about the annual Grues Convention in August instead of keeping his mind on the business at hand. Ah well, maybe we can do some autumn cleaning instead.

Befote we get to the mail, though, I have a little something to say about *Daemonsgate*. I have not played this game and don't plan to do so, but a letter came in from a *CGW* reader in early March detailing his frustrations with tech support for the game.

The box contained no warranty card and no information at all about tech support. When he hit a serious bug in the game, he had to get the phone number from an ad. Amazingly, someone did answer the phone, and he did get a return call the same day; unfortunately, very unfortunately, he was out at the time.

That was the last contact he had with Imagitec Design. He kept calling them for about a month and a half with no answer on the other end, until finally he got a message that the number had been "temporarily disconnected."

Petsistent to the end, he managed, aftet great trouble and expense, to track down Dteamweavers, the England-based company that made the game. They told him they knew about the bug (more than one, it turned out), and that they were planning to upload patches to the Internet. Since the patches weren't ready at that time, I don't know if they actually made it onto the net, nor at what FTP sites they might be available on, and I don't have an Internet address for the company. However, I do have the regular address and phone number. If you need to get in touch with the company, you can do so at: Dreamweavers, Suite 202, 15 Wellington Rd., Dewsbury, West Yorkshire, England, WF131HF. Phone: 011-44-924-461-115. Many thanks to James Kight of North Carolina, who provided this information (and paid for it in more ways than one!).

And now on to the mail!

Return To Zork: A lot of people have been asking about how to get back across the river after visiting the temple at Bel Nair. They have trouble because the game does not indicate in any way (except a vague remark about receiving a special gift) that their map has become a magical map. Once you've been to the temple, you can get to any known (previously-visited) location simply by clicking on it. This makes travel quite easy, once you know about it. By the way, some playets have had problems with the map becoming corrupted. Not everything appeats on it, or it can't be scrolled, or some other odd thing happens. In those cases there is nothing you can do except restore to a point where the map was still good and play on from there.

QFG IV: Shadows of Darkness: Some adventutets are having difficulty with locating grue goo (nothing to do with Fred, by the way). It's easy to find, although perhaps not easy to reach. The pool whete you exit the cave is full of gtue goo. Also, other gamers are having a hard time with satisfying the skull outside Baba Yaga's hut. Think about that for a moment. It's a skull; thete aren't too many things around that it would find useful, and there's only one person around who has what it wants.

Simon The Sorcerer: No one enjoys visiting the Swampling (can't blame em, heh), but evetyone wants to move that crate to see what's underneath. Too bad the little critter won't let you get near it. The only thing to do is get rid of him. Violence, howevet, is not the solution (besides, the poot thing is just lonely, not evil). Indigestion, on the other hand, has possibilities. Choke.

Forge of Virtue: A lot of people are still playing this one, and like others before them, have had problems with the Tesr of Truth. Amulets, amulets everywhere, not a one to take. That's because all those obvious trinkets are just fakes designed to lute you away from looking for the one true amulet, which is by no means obvious (hey, you didn't think they were gonna make this easy, did you?). So don't let yourself be hoodwinked; look to the walls instead.

Lands of Lore: While it wasn't so long ago that I gave a hint about this one, it's still giving players headaches. Namely, taking out Scotia at the end. Pieces won't work here. You need the Whole Ttuth and nothing but to defeat the old hag. Just put it all together and stop her when she starts morphing. Do it soon; if she makes it to the third form, you're gonna be toast.

Companions of Xanth: Most of this game is pretty simple, but there's a spot ot two where people run into a little ttouble. One of these is the door ajar. It can't be opened, it can't be closed, and in general, it seems there's nothing you can do with it (or to it). The answet lies in the old pun/riddle, "When is a door not a door? When it's a jar."

Serpent Isle: The fight with the three Banes of Chaos is tricky, and not entirely fait. Players win the battle, then hurry off to do the ceremony to restore the Chaos Serpent, only to find that nothing much happens. That's because the Banes aten't in those little soul prisms—yet. They are inside something else and have to be transferred over to their happy homes. Now that you know this, it shouldn't take much time to figure out where they actually are when the fight ends.

Sam & Max Hit The Road: So here are the Freelance Police having fun with the binoculars at the restaurant by the ball of twine. They'd probably be having even more fun if they could see better and knew what they were looking for. Well, before they know what to look for, they have to talk to Shav-Ool (you know, the guy hiding out in the Mystery Vortex). Then they need to improve visual acuity to see it. Waka waka waka (rats, what a terrible hint!).

That's about it for this look into the mailbag. In the meantime, if you need help with an adventure game, you can reach me in the following ways:

On Delphi: Stop by the GameSIG (under the Groups & Clubs menu).

On GEnie: Visit the Games RoundTable (type: Scorpia to reach the Games RT).

By US Mail (enclose a self-addressed, stamped envelope if you live in the US):

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Until next time, happy adventuring! **cgw**

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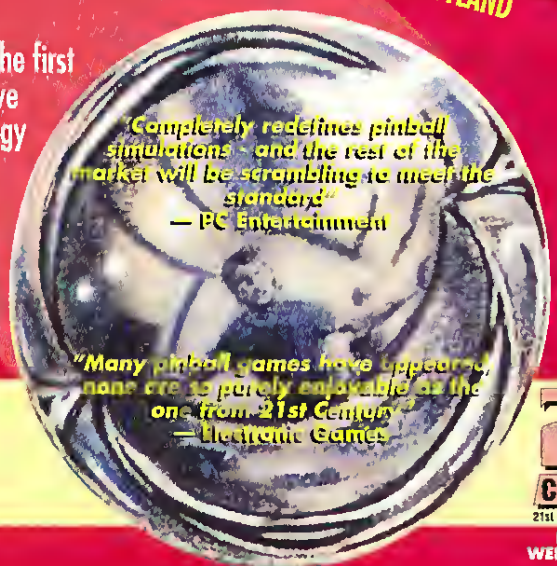

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The Text Generation

More Games For The Textually Insatiable

by Charles Ardai

A few months back, *CGW* published an article I wrote called "Sons of Infocom," about a couple of game designers who stubbornly persist in writing text adventures. The clear signs on all sides are that text adventures are the last thing a hip, bleeding-edge, ear-to-the-infohighway gamer wants to play. No one, the conventional wisdom goes, still cares about text adventures.

I was delighted that these young rebels were bucking conventional wisdom. Since I cut my gaming eyeteeth on text adventures, I very much want new ones to play. What I didn't put in the article was my feeling that I was not alone in desiring new text adventures, mainly because I wasn't sure.

Now I'm sure. Since the article appeared, I've gotten a dozen letters from people who wanted to second the sentiment. To appreciate just how unusual this is, you have to know that the largest number of letters I had previously received in response to an article was two. (If you're a game reviewer and you're not Scorpia, the mail doesn't exactly pour in.) This is why the response to "Sons of Infocom" was so surprising—and so gratifying.

Granted, from a marketing standpoint, a dozen people who like text games is hardly better than one, since selling a dozen copies of a game won't exactly make a dent in a designer's payments on his Rolls Royce. But the rule of thumb in publishing is that for every dozen people who bother to write in response to an article, there are 120 who don't. And if 120 people buy a game, why, you're practically talking grassroots support.

All of which I offer as prelude to and explanation for, this article, a sequel of sorts to the earlier piece and (who knows?) maybe the start of something big. You see, two of the dozen letters I received came with games attached. The first was from D. A. Leary, author of *Unnkulia Zero,* one of the games I covered in "Sons of Infocom"; D. A. enclosed a copy of his latest title, *The Horror of Rylvania.* The second was from Dennis Cunningham, who sent his magnum opus, *T-Zero.*

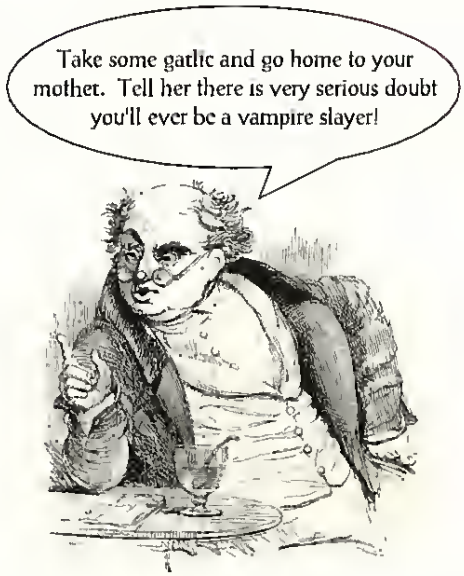
And, by gum, both games were good.

In ancient times, the release of a new text adventure was cause for much celebration.

Hexed By Text

Nestled in the foothills of Eastern Europe, not far, one assumes, from that *other*-ylvania, lies the sleepy nation of Rylvania. You and your girlfriend Carolyn are touring the countryside when dusk falls, the woods close around you, and a pack of wolves leaps out of the underbrush. When the wolves retreat, Carolyn lies bleeding, near death, on the ground. You run into the nearest town for a doctor. When you and the doctor return, Carolyn's body has vanished. You're all alone, a stranger in an unholy land, with a girlfriend who is both missing and dying...and your troubles have only begun.

To say any more about *The Horror of Rylvania*'s story is to say too much, since the game hits you early on with a number of surprises. To know about these in advance would diminish your ultimate enjoyment, although knowing nothing about them means you can't begin to appreciate the game's delicious perverseness. Consider: some 70-odd moves into the game you'll have the rug pulled out from under you when an attack turns you into a...



No, I can't bring myself to spoil it. Let's just say that afterwards you won't be eating a lot of garlic bread with your fettuccine in red sauce. (And as for that red sauce...)

The subplots mount as you leave the town for the perilous Castle Gloomfen, trying desperately to mix a potion to return you to your normal state. Meanwhile, you're getting visions of Carolyn being tortured by a maniac, visits from a headless apparition, the cold shoulder from a crone who wants some booze before she'll tell you your fortune, and hunger pangs because it's been hours since you ate your last priest. Not necessarily in that order.

Leary is at the top of his form here, integrating marvelous multiple-stage puzzles (including, be warned, some of his famous lying-computer puzzles and dead ends) into the most fully-developed storyline I've seen in a text game in years. *Rylvania* is not just a grab bag of puzzles; it's a ripping good yarn full of good scares, good jokes, good adventure game writing, and a plot that actually holds everything together.

Experienced adventurers will find themselves racing through the game, since the puzzles tend not to be all that difficult. (Leary himself rates the game's difficulty at 5 on a scale of 1 to 10.) However, there are a few ringers in there. I was stumped twice,

"THUMBS UP!"
- Johnny L. Wilson
Computer Gaming World

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not counting times when I knew what to do, but couldn't get the computet to understand my instructions. For the most part the parser opetates well, but there are some maddening exceptions to the rule, such as when you find an ink bottle the computer won't let you open except when you smell it. That's not a puzzle, just a quirk of the writing.

Other weaknesses include occasional errors of language ("shinny" fot "shimmy," a sound described redundantly as "far-distant thundet") and some inconsistent descriptions, such as a toom where "the only sound is the quiet ticking of the clock," but contains a buzzing fly, of which it is said "you can't see it anywhere but you sute can hear it."

Leary also sometimes denies gamers the oppottunity to exercise theit cleverness in coming up with alternate solutions to his puzzles. In one instance, he wants the player to use a staff found at the end of a maze to balance while wire-walking across a gorge. The playet cannot acquite a signpost or a spoke ftom a wrought-iton fence, both of which are described as tall and pole-like. It would be fine for these alternate solutions not to work; the signpost could splinter while being uprooted, perhaps, and the spoke could turn out to be too heavy. Still, the game would be better if it let the playet try.

So, the game is not petfect, but it is the best of Leary's games that I have played, high praise indeed, and one of the most enjoyable I can remember. Because of its subject matter and irreverent tone, *Rylvania* may not be fot all tastes, but players with hearty constitutions will have, as it were, a bloody good time.

Time In A Bottle

T-Zero will also not be to everyone's taste, even though it's an essentially bloodless and abstract epic—or possibly, for exactly this reason. In almost every way it is the opposite of a hearty, full-of-fun game like *The Horror of Rylvania: T-Zero* has a hard-to-fathom storyline that makes almost as little sense at the end as at the beginning; it takes place in a surteal Wonderland with many locations and difficult, btain-taxing puzzles; and it seems to exist not to draw the player into a fiction, but as a showplace for the verbal virtuosity of the authot. In some regards, *T-Zero* reminds me less of a text adventure than of those infuriatingly difficult cryptic crossword puzzles from the London Times, which suddenly appear infuriatingly easy once the puzzle's constructor leads you through the solution.

T-Zero is subtitled "an adventute fot the time being," and if you don't see the double meaning in that phrase at first glance, this game's not for you. You see, you ate the "time being" in the game, or at least one of the time beings, a custodian-cum-libratian who has just been given his pink slip (yes, check yout inventory, it's there) by the mystetious Count Zeto, a wealthy individual on the grounds of whose estate the adventure begins. The grounds are jam-packed with timepieces of every desctiption, from sundials to egg timers, and many of the puzzles are time-related. Needless to say, this is one of those games where you have to pay attention to whete you are at any given time.

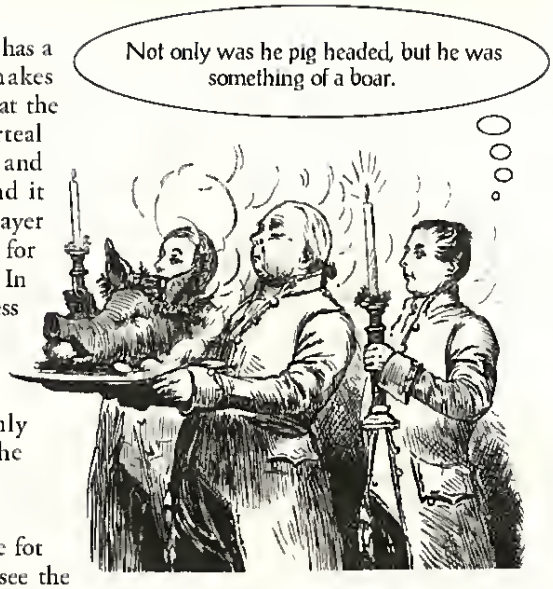
Nothing is simple in *T-Zero*. When you find a ttophy case in *Rylvania*, you open it by smashing the glass top. When you find a trophy case in *T-Zero*, you open it by timing the ringing of chimes to coincide, initiating sufficient sympathetic motion on the part of a pendulum to make it swing and smash the glass from inside. Want to take the contents of the case? Good luck. Reach for the pendulum and your hand swings back and fotth, not quite snagging it; reach for the stopwatch and, sure enough, the feeling that you are being watched makes you stop.

Later, you find a suspension bridge. Try to cross it and you get stuck, halfway across, in suspended animation. How to ptoceed? Try snapping your suspenders.

You encounter a door whose jamb is ajar. What's behind the door? A jam jat.

You find a field full of stones with a couple of tetns circling overhead. Are you supposed to leave no stone unturned or no tern unstoned?

You find a rag man who is "all mixed up." What's an anagram of "a rag man"? "Anagram" is an anagram of "a rag man."



And so it goes. Not since Infocom's *Nord and Bert Couldn't Make Head or Tail of It* has a single game contained so much wordplay. Cunningham, true to both parts of his name (since he is cleatly both cunning and something of a ham), laces a pun into nearly every line. The density of the text is almost Joycean—if there ever wete to be a computet game based on *Finnegans Wake,* Cunningham would be the man to write it.

That said, who is actually going to play *T-Zero* and love it? It will have to be someone with more patience than I have. On top of the too-clever wotdplay, which is hard enough to navigate, Cunningham has made mapping his world a nightmare by using multiple paths, ostensibly heading in diffetent ditections, to teach the same location. What should be up is down; what should be notthwest is east. Did Cunningham deliberately set out to confuse players, or did it just happen? Hatd to say, but I do know that I had to tedraw the whole map fout times.

If thete is anyone out there who wants a mammoth brain-twister—if you like, in the words of that proto-Cunningham, W. S. Gilbert, "quips and quibbles heard in flocks"—you might want to give *T-Zero* a try. If you're leery...stick to Leary.

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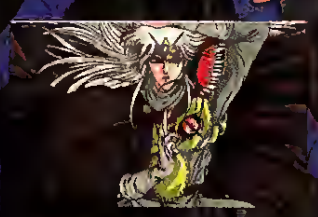

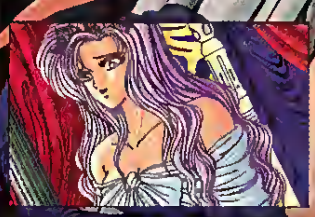

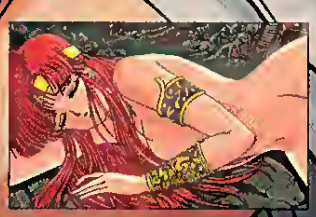

System requirements: 286-20 or faster machine (486 recommended) with 640K RAM, hard disk, mouse required. Operating Sys.: MS DOS 3.3 or above, Windows 3.1. Graphics compatible with VGA. Sound support: Sound Blaster, Sound Blaster Pro, Thunder Board, Pro Audio Spectrum, Adlib Gold and Speed Master.

R This game is not for the faint-hearted. Contains violence and some material inappropriate for minors under 18

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A Six-Pack of Russkies

Interplay Imports *Russian 6 Pak*

by Paul Hymen

The Cold Wat may be ovet, but there's still one Russian bomb that needs defusing—it's *Russian 6 Pak*, the latest telease from **Interplay**.

As a *Tetris* fanatic, I eagetly awaited this package that sounded like a comrade piece to the -Tris series (*Tetris*, *Wordtris*, etc.) of games. So when it atrived, I grabbed a nice hot glass of tea and settled in for a double ttoika of Slavic puzzles.

My excitement was quickly putged by the manual's inttoduction, a disclaimet written by, of all people, the inventor of *Tetris*, Alexey Pajitnoy.

"Due to a lack of sophisticated hardware availabiliry," he says, "Russian programmets are rypically a few years behind theit Ametican counterparts regarding sound and gtaphies. Because of this, we don't intend to emphasize them as much as strategy aspects and game concepts...We would tather create these small logic-type games than to create violent shoot-'em-ups."

But, ironically, the problem with *Russian 6 Pak* isn't the sound or graphics—it's the game concepts. The collection featutes six games that ate described as "marvelously mind-bending and enormously entettaining." In truth, they aten't.

The most intetesting of the half dozen is "Flying Pictures," an oddball exercise in which a little girl climbs up and down a ladder alongside piles of fruit. You can make each ftuit vanish by having the girl toss an identical fruit at it. The trick is to make sure that the correct fruits ate exposed so they can be hit. It isn't as easy as it looks, and one quickly becomes addicted to fruit flinging.

While the pace of "Flying Pictutes" can best be described as leisurely, "Line Man" is frantic. This is a hyperactive version of the near-classic LucasArts game *Pipe Dream* in which pieces of pipe must be laid to accommodate onrushing liquid waste. Here you attempt to consttuct a "ting toad" ot complete circuit by rotating pieces of roadway. It's a teal beat of a game, especially with the timer ticking away.

A third game, which offered promise but fell apart in the clutch, is the intriguingly named "Mastet Of Bombs." This pseudo-*Tetris* puzzler is fun for a few tries but then becomes tepetitive. Falling bombs must be hooked together so that dtopping detonators can be used to explode them. It's an interesting idea, but in the hatdet levels, the bombs ate so huge that they fill the screen in an instant and the game quickly comes to a halt.

That's the good news. The other thtee games—"Crete," "Fast Ring," and "Shadows"—are rather silly and not well thought out. Contrary to Pajitnoy's disclaimer, "Shadows" IS a shoot-'em-up that tequires no sttategy whatsoever, and it seems sttangely out of place in this collection. To scote, all you need is the ability to aim at, shoot, and detonate floating asteroids using ctoss haits that refuse to respond to any efforts to ditect them. It's like using a rifle that has never been sighted and is just as ftusttating. "Fast Ring" is easier but not very interesting as you attempt to form boxes by clicking on buttons that appeat tandomly. You can increase the difficulty by boosting the game's speed, but what's the point? "Crete" featutes a maze that must be traversed in the least numbet of moves—hatdly an otiginal concept.

There isn't anything particulatly Russian about any of these games, not even the so-called "authentic Russian music" whose disco beat is mote likely to show up in Russian elevators. (The button that tutns the music off is a godsend).

Although *Russian 6 Pak* is available in both Windows and DOS vetsions, it lends itself best to the Windows envitonment as it closely resembles the popular **Microsoft** *Windows Entertainment Packages*, and, like the *WEPs*, some of these puzzles will gtab you, most won't.

No, it's not fair to expect every piece of Russian software to measute up to the wildly successful *Tetris*, but when a program is ptomoted as if it is the successot to *Tetris* (as witnessed by Pajitnoy's testimonial), you just expect more. While I still find myself going back to *Russian 6 Pak* to fling a little fruit, can I recommend the entire package? A resounding NYET! CGW

Russian 6-Pak

PRICE:	$49.95 (Windows), $39.95 (DOS)
SYSTEM REQUIREMENTS:	IBM 286-12MHz or better, 3MB hard drive space, VGA graphics, supports Sound Blaster and Pro Audio Spectrum sound cards
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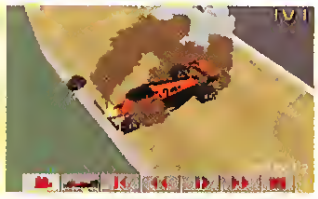

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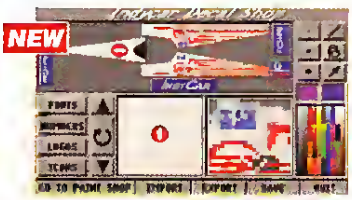

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Is This Another Bug Hunt, Sir?

At The Movies With Media Vision's *Quantum Gate*

by Charles Ardai

When writing about *Quantum Gate*, an ambitious interactive movie burdened with an apocalyptic plot, a cartload of avant garde visuals, bad poetry, good acting, an identity crisis, and not one but two subtitles ("No One Dreams Here" and "The Saga Begins"), one feels the urge to crib from the works of Charles Dickens: It is the best of games, it is the worst of games.

How is it the best? For one thing, it is one of the first interactive movies to take full advantage of the technology on the market, offering more than two hours of full-motion video and requiring the hottest of hot-rod systems to view it. For another, it eschews the "let's get a big-name star to go slumming" method of casting, the results of which can be hit-or-miss, in favor of hiring unknown actors who are simply outstanding. Its script is beautifully crafted, evoking the sort of paranoid dread normally associated with science fiction writers like Philip K. Dick and Fredric Brown. Its animation, which could compete with the clips collected in showcase anthologies of computer graphics such as *Computer Dreams* or *The Mind's Eye*, is combined extremely well with its video clips, which have none of the graininess of the clips in, say, ICOM's *Sherlock Holmes* games. Composer Paul Hiaumet's score, though rather too New Age for my taste, is effective, raising the hackles on the back of your neck when it is supposed to. All in all, *Quantum Gate* scores high marks in every category that defines a multimedia product.

So how is it the worst of games? By hardly being a game at all. Oh, there are other bones to pick—a few plot holes, some scenes that run on too long, some visuals that are too dark to be made out, an insufferable instruction manual—but any gamer's main complaint will be that *Quantum Gate* is yet another interactive movie that stresses the movie element, not only at the expense, but almost to the exclusion of the interactive element.

Read the marketing materials that come with the game and you'd never know it. Media Vision says things like "How you interact makes the difference between life and death" and "How you interact decides the fate of the two worlds." The only problem is that this isn't true. *Quantum Gate* is a movie. The viewer gets to wander around the sets on which it was filmed at several points during lulls in the action, as well as to make a handful

of dialogue choices during encounters with other charactets, thereby determining which of several dozen supplemental scenes get played. But through it all, the plot chugs forward without the player doing much to prompt ir, and the direction in which it chugs cannot be affecred by the player at all.

Apparently to make up for the lack of real interaction, the game also contains a repeated action sequence—a first-person tank battle simulation—the less said about which the better. It adds nothing to the Atari 5200 version of *Battlezone*, and offers only minor graphic improvements on the even older Atari VCS clunker *RoboTank*.

Frankly, these scenes are marginal at best and an embarrassment at worst. To leap from the stunning visuals of the movie sequences into the crude and clumsy battle-sequences is to leap ftom a champagne bubble bath into a trough full of mud.

As a game, therefore, *Quantum Gate* deserves a scathing review. I would be most happy to give it one, were it not so damn good as a movie. Though as a game designer, writer-director Greg Roach has a lot to learn, he has produced something remarkable in *Quantum Gate*: a science-fiction movie better than any since *Blade Runner*, and some of the most mind-bending science-fiction, period, that I've come across in years.

So, you have to go into *Quantum Gate* expecting to be disappointed with the gameplay, which is unfortunate. However, if you are prepared to give yourself up entirely to the storytel-

Quantum Gate

PRICE:	$79.95
SYSTEM REQUIREMENTS:	IBM CD-ROM 486SX-20MHz or better, 8MBRAM, SVGA graphics, 10MB hard drive space, CD-ROM 150KB/sec transfer rate, 8-bit Windows-compatible sound card, Windows 3.1
PROTECTION:	None
DESIGNER:	Greg Roach
PUBLISHER:	Media Vision Multimedia Publishing Fremont, CA (510) 770-8600

ling, you are in for an incredible experience.

A Tale of Two Planets

The Earth is dying, choked by pollution and ecological misdeeds, and only you, medical student Drew Griffin, can save it. Yes, folks, it's yet another environmenral *The End Is Nigh* plot—or so ir appears at first. You're subjected to the usual eco-prop film clips of poisonous smoke and ominous acid rain clouds, accompanied by the usual text, describing in numbing detail how humankind has ruined its home and is scheduled to make irself extincr within five years. There is the sad, Yanniesque plink-plink-plunk music calculated to wring tears of self-mortification from rhe most dry-eyed player. There is the invocation of the Unired Nations as a catch-all political panacea. There is the self-consciously multiracial cast, with its perfecr, politically correct distribution of minority and white, as well as male and female, actors.

And yet, all is not well in this politically correct paradise, for more reasons than just the dying Earth. Somerhing rotten is behind all the noble-sounding propaganda, as Drew discovers when he signs on ro rhe Quantum Gate Project, a group that is sending volunreers through a space-time rifr to newly discovered Planet AJ3905, the only place that contains sufficient quantities of Iridium Oxide to halt the Earth's spiral into disaster.

Something is fishy about AJ3905. The place is run as a military operation, and some snooping around reveals only a single mechanic on the planet—clearly not enough for the large-scale mining operation rhey are supposed ro be undertaking. Then there is the matter of the bugs. Drew and his fellow grunts are told that the planet has a deadly atmosphere and is inhabited by hostile insectoid aliens, meaning that they periodically have to go out on raids to slaughter the indigenous population lest the Green Meanies overrun the human base.

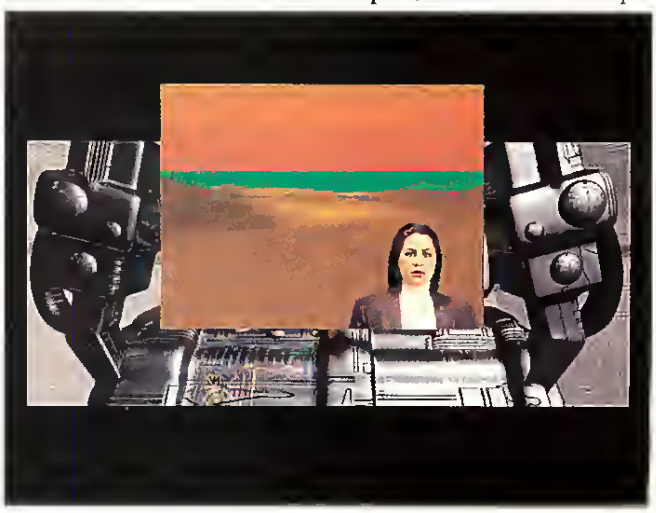
There is only one problem: the hazardous atmosphere means that no one can go our without a protective suit, and the suits offer a virtual-reality display in place of a faceplate. You see that you're shooting big, ugly bugs out of a rhree-year-old's nightmare, but you only see that because it's what the VR chooses to show you. And as one of Drew's comrades discovers, if you try to remove your helmet to see what's really out there, it's rigged to self-destruct.

The writing is shockingly adulr and shockingly good, on par with such classics of anri-war SF as Joe Haldeman's *The Forever War* and James Tiptree, Jr.'s *Yanqui Doodle.* That Roach has assembled a cast that is equal to the task of bringing the story to life is nothing shorr of remarkable. It is always easiest ro make this sort of material campy and ridiculous—but the fact is that he has, and the realism of the performances combines with the quality of the writing to create a future-shock film on par with *Aliens.*

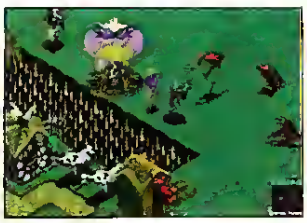
Jamie Callahan turns in an incredible, running-on-razor-wire performance as Private Michaels, the space marine who tries to convince Drew thar they are being lied to by the government: "I don't know where we are, or who we're killing, or why, but they are not telling us the truth."

James Black plays rhe sinister base commander, Colonel Saunders, as though he were auditioning for the role of Blofeld in the next James Bond picture. He is corruption incarnate, full of Machiavellian charm and threat: "Private Michaels may be unbalanced...the man may be a schizophrenic and I believe he's a subversive...We want you to keep an eye on him." Ruth Aguilar's hardass Sergeant Cranshaw outdoes Sigourney Weaver's Ripley for sheer tesrosrerone without becoming a caricature along the way. Annalee Jefferies turns in a strong performance as the scientist who invented the Quantum Gare and who now has the blood of an alien race on her conscience.

The story's intrigues unfold over the course of three days, following Drew from the moment he arrives until the moment the evidence against the government becomes overpowering. Even then, rhough, you don't know what to believe. Michaels may very well be crazy, or simply more sane than everyone else. Is Earth really in any danger? If so, from whom? Who are you really working for and what are their motives? The story races along at an incredible pace, horrific revelations pil-



Clearly, something has startled Mr. Cow, And it ain't a pair of cold hands.



You got a village.

Farms. Huts. Knights. People to boss around. And a cow.

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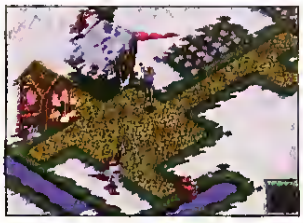

NOW LIFE REALLY SUCKS. AND IT AIN'T ABOUT TO GET ANY EASIER. THE EVIL HORDLINGS GROW BIGGER, FASTER, EVEN SMARTER. (AND YOU HAVEN'T EVEN MET THE EVIL CHANCELLOR YET.) DEAR READER, WE PRAY YOU'RE THE SORT WHO LEARNS QUICKLY. 'CAUSE THIS STUFF'S HAPPENING ON 32 BITS. ENJOY, MY FRIEND. AND GOOD LUCK.

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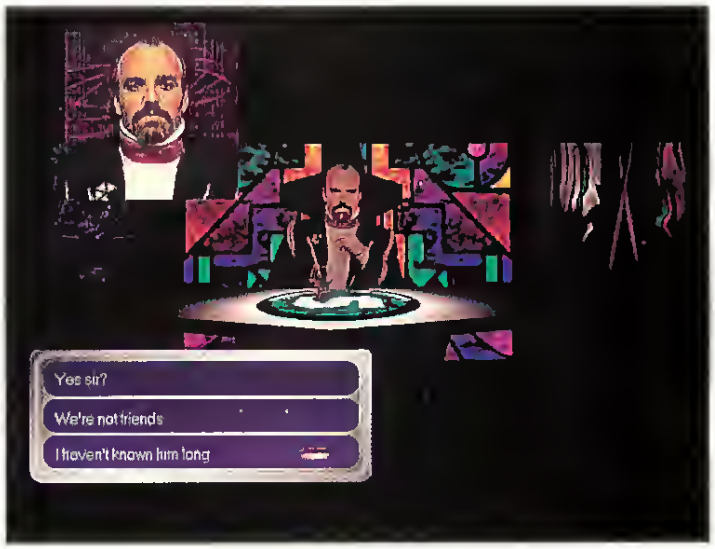
ing up one after another until the final shot of the game, which answers some questions but raises still others. Yes, it's a cliffhanger, and a very effective one. *Quantum Gate II* is already in the works.

Great Expectations

So where is the game in all this? Well, in between the frequent movie sequences there are long stretches of "free exploration" time during which you can click on directional arrows to make Drew explore the three floors of the base. When you encounter something you can look at, an eye icon allows you to do so. There is also a mouth icon for initiating conversations with characters Drew meets, and a brain icon for accessing Drew's memories, which unreel in the corner of the screen like home movies. Then there are the dialogue menus for when you have to decide whether or not to admit to Saunders that you broke into the MedLab with Michaels, and the occasional VR bug-hunts as described above. Aside from this, there is very little in the way of interaction. Even scenes that look like they ought to be interactive are not. For instance, the computer controls Drew's skivver during a rescue mission, and when Drew is asked to choose from a grim menu at the end of the game, the computer chooses for



him. Worse still, when the player is given a choice, it is often a Hobson's choice: No matter what dialogue path you choose with Sergeant Cranshaw in the second scene, you'll end up doing K.P. dury in the third. Granted, the K.P. scene is necessary for the plot, but for the game to claim interactivity while really offering none is a species of deceit only slightly less heinous than that perpetrated on the volunteers in the story.

The folks at Media Vision assure me that the next game in the series will repair this breach of faith by focusing more on game elements. I hope this means more than that they plan to have three, rather than just one, execrable action sequences. We'll see.

In the meantime, there's *Quantum Gate,* a movie for which the greatest praise I can offer is probably to say that I would gladly pay $7.50 to see it in a theater. I realize that this is a strange thing to say, since the game costs $80.00 (which neither this nor any other game is worth, but that's a subject for another article), but I mean it in only the best ways. *Quantum Gate* is a quantum leap forward in computer, though not interactive, movie-making; but more than that, it is a hell of a good movie, period, with a story that sticks with you long after the final credits roll.

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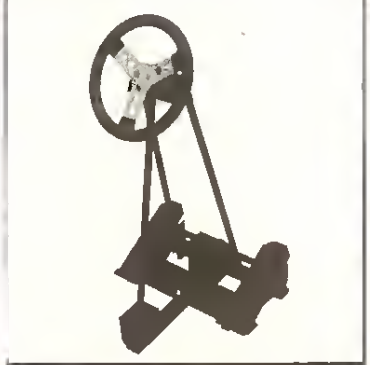

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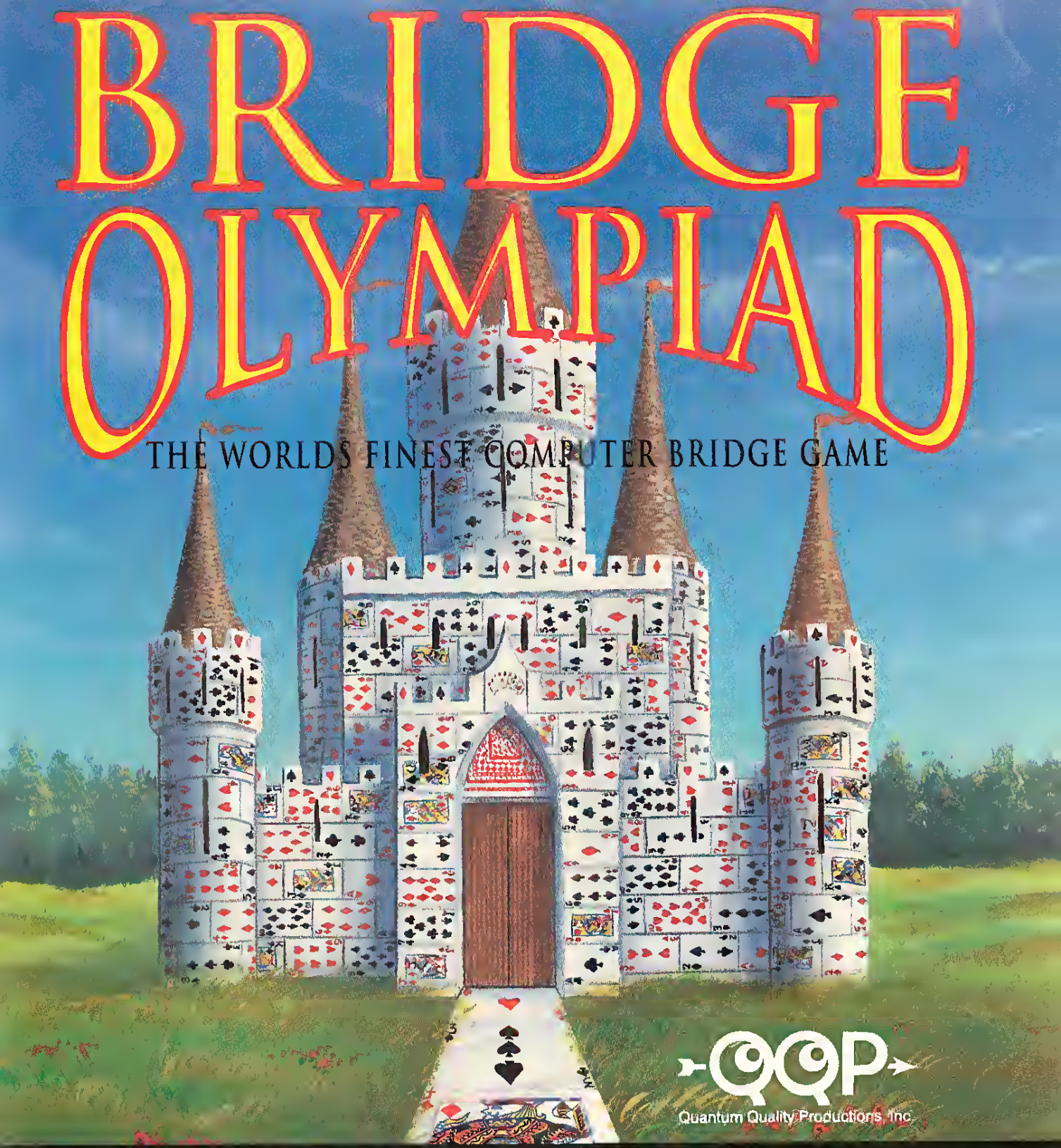

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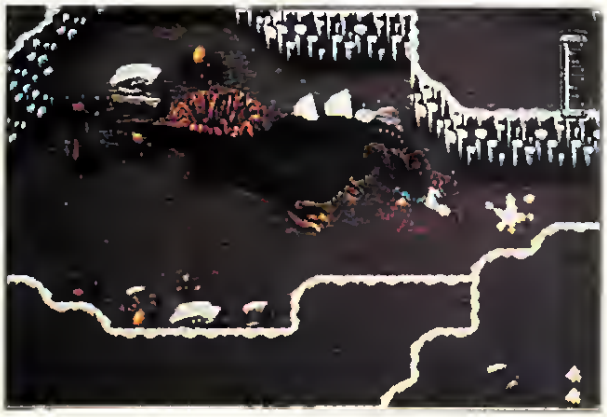
No Wonder The Dinos Are Extinct

Jurassic Park: A Meteoric Smash Or Mediocre Game?

by Neil Harris

Start with a best-selling novel, turn it into a thrill-a-minute movie with some of the greatest special effects ever put on the silver screen, then turn it into a computer game. Sounds like a formula for success, right?

If you've been playing computer games long enough, you've seen quite a few where a hot movie turned into a computer game. Often, the problem with this process is that the software publishing company has to spend so much on the license that there's not much left for the actual game. Somewhere in California there's a landfill full of old Atari *E.T.* games, for instance. Other times, like with the *Terminator* games from Bethesda Softworks, the adapration takes advantage of the power of the computer and results in a decent game.



Jurassic Park from Ocean is somewhere in between. The production values are stronger than in most movie adaptation games, particularly in the latet segments where a first-person perspective (similar to *Wolfenstein 3D*) puts you right into the action. On the other hand, the game design makes for a frustrating experience. It's as if all the budget for a movie went into special effects with nothing left over for a good script.

Carnivorous Reptile or Dinowussie?

The biggest issue I'll take with the game is that the dinosaurs aren't particularly scary. In the book and the movie, running into any of the dinosaurs was not a pleasant experience. In particular, the spitters and the raptors were almost certain to leave anyone dead, or at least mangled. But in the game the dinosaurs are wussies. Even if a dinosaur hits the player, there's very little damage and ample opportunity to get healed.

Based on that, you would think that the game is too easy. Far from it. The game is quite difficult to win. On the other hand, it's not particularly challenging. This game can't decide whether it's an action game or a puzzle game. Each level requires the player to accomplish specific goals, which usually involve running around and gathering up the required pieces. It takes a long time, and any mistake is fatal—not to the player, but to the ability to get through the level.

It Gets Better When You Cheat

The first 15 levels of the game are from an overhead angled perspective, similar to the *Ultima* role-playing games. After that, the game switches to a first-person 3D perspective. At this point it gets a little more interesting, as you run around the Jurassic Park maze shooting waves of 3-D dinos. Of course, it's nearly impossible to put all the pieces together to get to this point, since the puzzles have to be solved exactly right to make progress.

The easy answer is to cheat a little. If you switch the names of two files, IP2D.EXE and IP3D.EXE, the next time you play you won't have to bother with the overhead action game—you'll be in the 3D mode right from the beginning. The dinosaurs are still not very dangerous and you'll wade through dozens of them, taking only enough damage to go through a box of Band-Aids.

Read The Book, See the Movie, Skip the Computer Game

It's amazing that Amblin Entertainment (Stephen Spielberg's company) allowed this game to get out the door. They wouldn't have released the movie in this shape, it would have gone back to the editing room. The best news is that it got into stores a year after the movie, so most of the excitement (and hopefully the sales) has come and gone. If you're interested in the ultimate dinosaur experience, read Crichton's book, or rent the movie when it comes out on video. You'll do much better. CGW

Jurassic Park

PRICE	$49.95
SYSTEM REQUIREMENTS	IBM 386-33MHz or better 2MB RAM, VGA graphics, 9MB hard drive space
PUBLISHER	Ocean of America San Jose, CA (408) 954-0201

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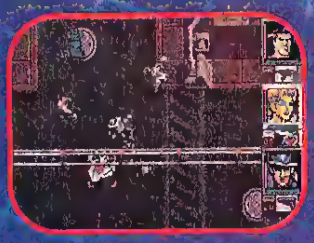

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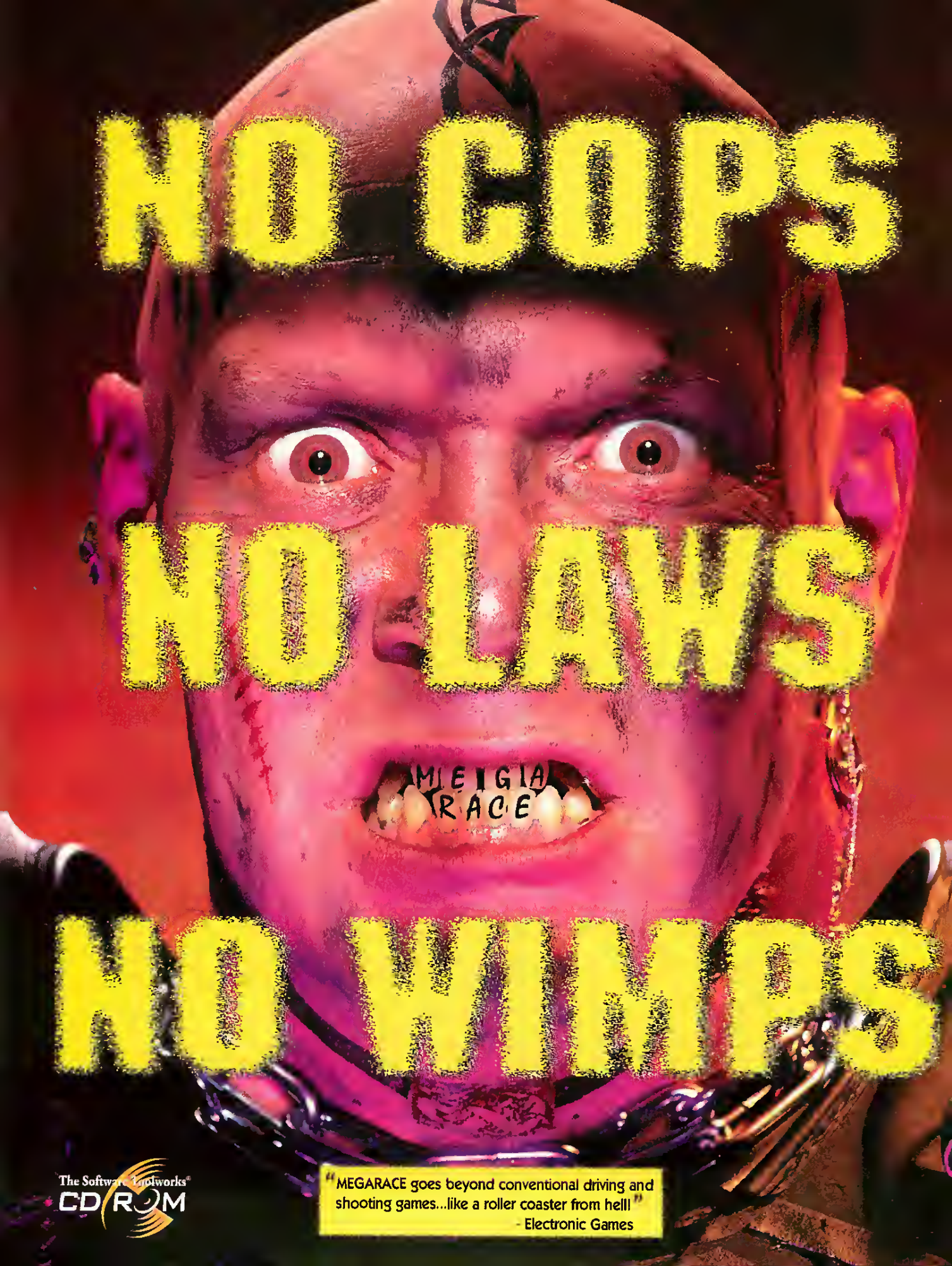
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BEST OF THE REST

Shareware Showcase

by Chuck Miller

This month, three new games have captured my attention and driven my fellow editors to the brink of stomping on my surge protector. Each of these games outshine their shareware brethren by several kilowatts, blinding me late into the night and still leaving me thirsty for more. They are *Raptor*, an exceptional action title from Apogee Software, *Heartlight*, a logic puzzler from Epic MegaGames, both for the PC, and *TaskMaker* for the Mac, an *Ultima*-style RPG from Storm Impact.

Raptor Rapture

When I get a knot in my neck and spasms in my gnarled mouse hand, I know a game is intense. I've been suffering this delectable syndrome since I began playing Apogee's *Raptor*. Though the goal is the same as that of a hundred top-down shooters—to blast everything in sight, avoid being hit, and collect all the bonuses—*Raptor*'s voracious gameplay eats other shooters for lunch. I have not been as hooked on an action title since *Sidewinder* first appeared on the Amiga in 1988. The graphics are exceptional for a shareware title, with audio to match.

You start *Raptor* by generating a character with a name, callsign and photo ID. Next, you select a difficulty level: Training Mode, Rookie, Veteran or Elite. Increased difficulty means more alien ships per wave bristling with greater firepower and damage resistance.

After signing in, you arrive at the hangar with three options: Fly Mission, enter the Supply Room or Save Pilot. Before going on a mission, you might want to drop by the Supply Room in case you have an interest in arming yourself to the teeth. Just like an arms bazaar, it takes money to buy bombs and missiles, but you'll find that violence is rewarded handsomely. You'll also be able to pick up bonuses in the desolate wake of exploding ships, so money shouldn't be hard to come by if you know how to fight. Once armed, it's time to begin the mission.

Game play, as mentioned, is intense. You can use the keyboard, joystick or mouse, but I prefer the mouse. Once play starts, don't worry about what you hit. Just shoot everything, stationary or moving. There are no penalties for hitting "innocent bystanders" because there aren't any. However, be sure to monitor your shield status—while weapons are unlimited, shields are not. When shields begin to buckle, a visual and audible warning sounds. All you can do at this point is cease firing and try to dodge incoming fire. Your shields will slowly recharge as long as you aren't blazing away on your weapons. Keep your eyes peeled for storage sheds; vaporizing these often releases energy pods that will restore your shields.

Violence pays handsomely in Raptor, so you can buy more weapons.

Raptor is made up of three episodes, the shareware version comprising episode one. To obtain the other two, plus new animations, harder bosses, and a slew of extra deadly weapons, send in your registration. *Raptor* is the best shareware title to arrive since *DOOM* strode onto the screen and is definitely a contender for this year's shareware awards. Registration is $34.95 plus $5.00 S&H, although Apogee will give CGW readers a $5.00 discount if they mention this column when they order. You'll need a 386 or better system with VGA graphics and a sound card to fly this bird. To register, contact: Apogee Software, P.O. Box 496389, Garland TX 75049-6389, (800) GAME-123.

Turn On Your Heartlight

Switching now from synaptic to sagacious, Epic MegaGame's *Heartlight* is a delightful logic-based game offering a good mix of arcade action and conundrums. Reminiscent of the many *Rockford* and *Boulder Dash* clones, *Heartlight* will devour a number of your evenings with challenging—perhaps a trifle frustrating—yet enjoyable brain benders.

Twenty ingenious levels tempt you through a variety of mazes in the process of collecting all the hearts on a given screen. The trick is to avoiding being crushed by huge steel balls, blown to bits by grenades, or stopped dead in your tracks. Planning and forethought are key playing elements.

Though graphics, sound effects, and music are just average by most standards, it makes very little difference in *Heartlight*. Game play is so addictive that the game's slight visual and soundtrack weaknesses aren't noticeable.

Carrying a "Surgeon General's" warning that it's dangerous to your productivity, *Heartlight* does have its share of time gobbling and head pounding puzzles. One in particular took over 20 tries before I realized that I was approaching the whole thing from the wrong perspective. Thankfully, you don't have to finish a level to advance to the next one. If you are stumped too long on one level, you are free to move on to the next and return to solve those you were unable to complete at a later time.

While the shareware version of *Heartlight* offers 20 levels of amazing play, registering nets you an additional 40 levels of brain-twisting action. This is one diversion that will keep you coming back for more. To register *Heartlight*, send $19 (plus $4 shipping and handling) to: Epic MegaGames, 10406 Holbrook Drive, Potomac MD 20854, (800) 972-7434.

Max Mac Impact

Mac role-players should look no further than to Storm Impact's *TaskMaker 2.0* for *Ultima*-style adventuring (of the *Ultima III-V* variety). Though not state-of-the-art in gaming technology, *TaskMaker* is nonetheless a very solid, professional production. Those who enjoyed the "middle" *Ultimas* will find *TaskMaker* a nostalgic, yet refreshing experience.

As with all such titles, *TaskMaker* is a story of a land in distress and a hero destined to free

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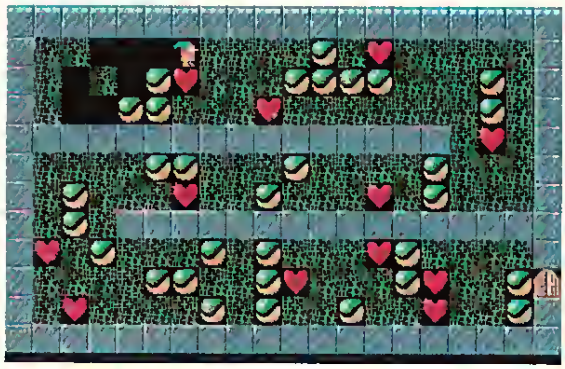
it ftom some curse. Boasring "over 100 million pixels of dungeons and villages," this title has obviously been kissed by a marketing mourh, but it does offet an extensive playing experience.

All commands and spells are available from the menu and keyboard, resembling those used since the dawn of computer RPGs. The spells are limited compared to many current role-playing titles, but are more than sufficient to the tasks ar hand. The action window fills the right two-thirds of the screen, with the inventory list and character stats occupying the left third. When equipping weapons or armor, the action window is replaced with a character screen visually depicting the body parts and items equipped.

A unique aspect of *TaskMaker* is the manner in which death is handled. Here, death is only a temporary setback. When a player dies, he immediately goes to Hell where he must escape the Devil and make it to the appropriate exit. The items the player was wearing when he died will remain with him. Those he had in his pouch will be found at the place of his death when he is resurrected in Outer Terra.

Game play is typical of most RPGs. Mazes, dungeons and villages must be explored; villains and creatures must be battled and dispatched. In the process of your adventure, you must gather as much treasure as possible, making periodic deposits at local "automatic tellers." In all, *TaskMaker* is an enjoyable, if slightly dared RPG. Still, titles like this often span the gulf of technology and provide a truly enjoyable experience.



Match your wits with balls of steel to see how many hearts you can capture in Heartlight.

TaskMaker is System 7 compatible, offers full color, includes a built-in inreractive tutorial, built-in virus prorection, and internal on-the-fly decompression. Macs from the Mac Plus to the newest systems are supported. Minimum requirements include System 6.02 or better, 600K free memory fot B&W mode, and 1750K free memory for color mode; a hard disk is recommended.

To order *TaskMaker 2.0*, contact Srorm Impacr, 2148 Rugen Road, Suite B, Glenview IL 60025, (708) 729-2666. Registration is $24.95 for new owners, $14.95 if upgrading from a previous version. A 45-day complere money back guaranree is provided.

That wraps it up for this month. Each of rhese titles is a real gem and will be easy to unearth now that *CGW* is on-line on ZiffNet. ZiffNet can be accessed through borh CompuServe and on PRODIGY. On CompuServe, go to *Computer Gaming World*'s own forum (GO GAMEWORLD), Library 8, Shareware Sizzle. On PRODIGY, JUMP ZiffNet and *Search by Title* for the games listed here, or *Search by Category* to browse the entire Games Library. In addition, the above titles are available through numerous shareware and public domain disk libraries, as well as on many national telecommunication services and privare BBSs. As always, please remember to register each program and support your shareware authors. CGW

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The High Price Of Medi-Carelessness

Maxis' Prescription For *SimHealth*

by Keith Schlesinger

So you've already become prince of *SimCity*, recreated *SimEarth* in your own image, hoed your row down on *SimFarm*, and become king of the *SimAnt* hill? Are there no challenges left in the Maxis world? How about...national health care! *SimHealth* is Maxis' look at the current debate swirling around a topic with something for everyone: moral choices, social responsibility, individual freedom, and, of course, the almighty pocketbook.

Produced in cooperation with the Markle Foundation, *SimHealth* is expressly intended as a thinking aid rather than a competitive game. With the wit and wisdom for which Maxis justly has become famous, the user's manual sets forth the rationale behind the game. Since it is "difficult to understand complex systems" and "get the big picture" through the news media, the game keeps track of all the boring details related to the choices made by the player as U.S. President and provides instant feedback for additional decision making. Besides, as the manual says, "You might as well enjoy yourself while you're learning." Four pre-recorded "tours" make it easy to learn game basics, which means players barely have to glance at the tidy little 32-page manual in the first place.

The Politics Of The Sick Bed

SimHealth begins when the player automatically wins the 1992 election, regardless of what policy is adopted on health care. This may sound unrealistic, but when was the last time you heard a candidate provide concrete details? The first thing the President must do is plot Personal Values on four separate "policy diamonds" dealing with Coverage, Cost, Choice of Services and Technology. This involves choosing a spot at or between the four points for each issue labeled Liberty, Efficiency, Community and Equality. These conform roughly to libertarian, conservative, liberal, and socialist ideologies.

After choosing values, the player moves on to the Policy Window to select funding, cost control, and a list of benefits; set the amount and type of taxes paid by individuals and businesses; place spending caps and set guidelines of varying strength; determine to what extent preventive, acute, and long-term care are covered; and whether or not to put service rationing into effect. The "WHAT?" and "WHY?" buttons become helpful at this point; they activate help screens that give brief but effective explanations of what all the technical terms really mean. If only the screens and text were larger and could be advanced by a simple click of a mouse button!

All this planning costs political points, or "chips." The player usually begins with around 55 political action chips, although this varies slightly depending upon the type of values adopted. With policies like cost controls on doctors' fees requiring 15-20 chips, you cannot do everything under the sun. Still, only the most ambitious plan will exhaust the pile. Thereafter, the chips seem to have little impact on events, even the outcome of elections. No matter how many times a player alters values within a previously selected policy topic, no additional chips are used. This seems unrealistic, since frequent changes in direction ought to use up political capital. Although this would make the challenge that much tougher, it is something Maxis should seriously consider if it does a second edition.

With the initial policy in place, events now begin to unfold at a monthly pace for up to 12 years. A year can take up to 20 minutes, even without interruptions for new technologies and pleas from unhappy constituents accompanied by staff recommendations. Those wishing to move faster can set game speed for the end of the year, which cuts playing time in half and provides a built-in action lag that is more realistic than the game's usual month-by-month micro-management. *SimHealth* can still be paused at any time to allow the player to figure out a new strategy. It can also be stopped in order to change policy, check conditions in each sector of the health industry

SimHealth

PRICE:	$59.95
SYSTEM REQUIREMENTS	IBM, Mac 386SX or better, 4MB RAM, 11 MB hard drive space, SVGA graphics, supports AdLib, Roland, Pro Audio, and Sound Blaster sound boards
PROTECTION:	None
DESIGNERS	Greg Wolfson, John Hiles
PUBLISHER	Maxis Orinda, CA (800) 824-2643

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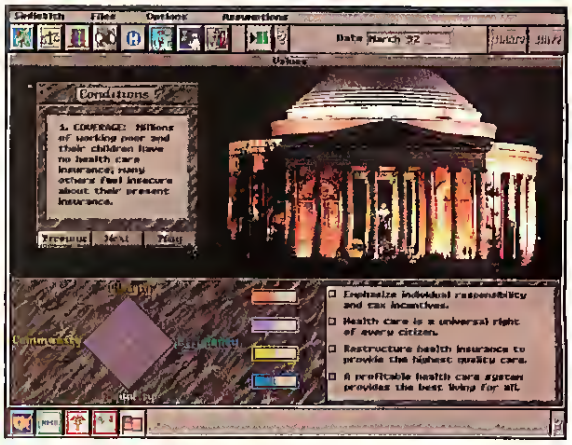
(hospital, family doctors, specialists, insurance, technology), or examine the wider world of the government budget, business big and small, the citizenry at large, and patients.

Two More Years!

The player must achieve re-election every two years, beginning in Nov. 1993, or face sudden political death. Biennial contests reflect the presidential and off-year congressional elections, both of which seriously affect governmental action. Winning is not too difficult for the first few years as long as the original policy can garner 60% of the vote at the start—a common occurrence regardless of the player's ideological bent. The troubles really begin in 1999 or 2001 when accumulated cost overruns, service delays, and high taxes catch up with the system and produce a sudden tide of voter unrest that no amount of fiddling with benefits, cost caps, and tax cuts can stop. Indeed, the problems generating such unpopularity are usually the result of earlier adjustments to maintain standing in the polls and win earlier elections. It is rare for new players to survive past the election of 2001 or 2003, and it remains a challenge even for veterans of half a dozen contests.

Disaster has a way of creeping up, but players quickly learn to pause the game and check out the graphs representing a wide array of data. Everything from hospital beds to educational outlays are tracked on simple displays using colored lines that can be toggled on and off for easier viewing. No numbers are available, but this is not a serious problem because what matters in SimPolitics is whether things are moving up, down or sideways (status quo). When things start to happen, the buildings and neighborhoods on the Main Street screen start to grow, shrink, or fall apart. While the changes can sometimes be hard to spot, especially on smaller 14 and 15-inch screens, players will soon gain a sense of what to look for.



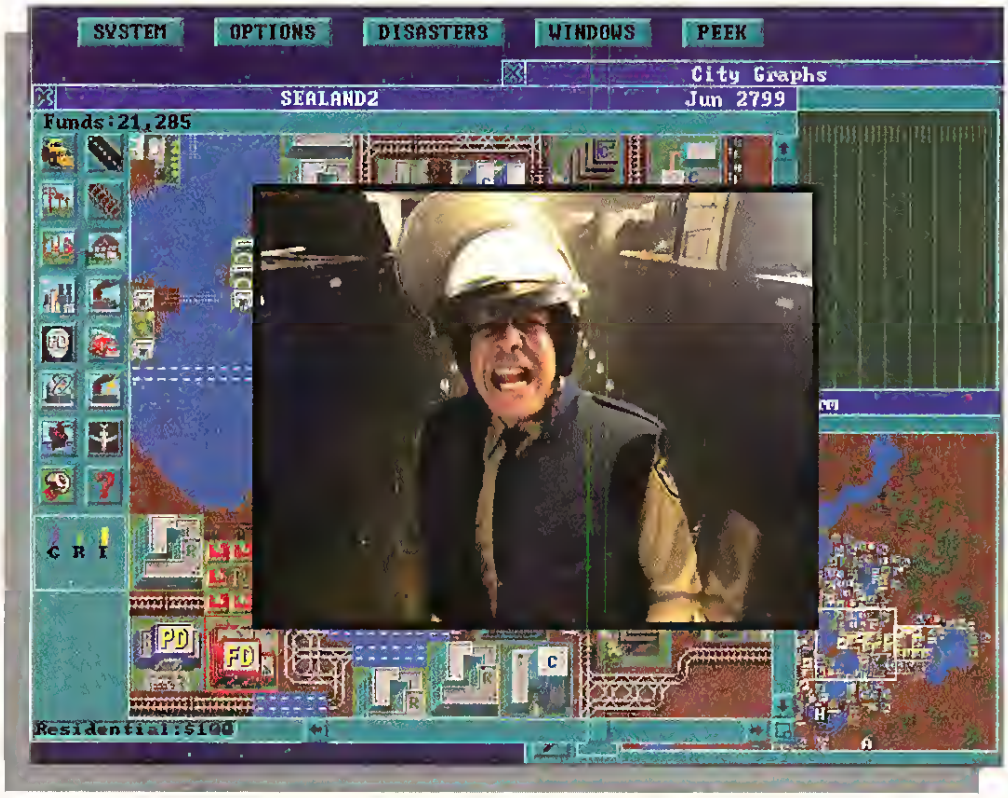
Catastrophic Illness?

SimHealth is a trailblazer in the simulations genre, but as a game it has problems. Of course, the fact that it wasn't designed primarily as an entertainment product mitigates against these criticisms, but for those of us who try to make a game out of everything, here are the problems. For one, the victory conditions are not well developed; you have to win elections to keep going, unless the elections option is turned off—something which makes very little sense in such a heavily political situation! If you survive the whole 12 years to 2008, you receive a final score which is nothing more than the behavior point total listed in the Personal Values window; other factors are not officially considered for victory purposes. In one contest, I barely survived the final reelection but managed to earn a high behavior point total because I lived up to my values. Unfortunately, I sacrificed nearly all of the big and small business firms in the country to achieve the win! What kind of a victory is that?

The AI has at least one blind spot that makes it easy to win. All you have to do is adopt an extreme libertarian ideology, eliminate all federal health care (including Medicare!), and cut other government services by $100-300 billion per year. The polls never sink below 57% favorable, and the behavior point total is almost a perfect 400. You can set the game to "Run to the End" and breeze to victory while hardly touching the mouse or keyboard. Institutions wax and wane, but the "invisible hand" of the free market keeps everything pretty much in line. There might be a debt crisis, but all you have to do is push the "fantasy" button and draconian measures automatically kick in to bring general spending under control. There is one catch: the entire private insurance industry goes bankrupt in the first three months of the game! That means no one has any protection even from catastrophic disease and injury. One wonders what people are doing about this. Why aren't the unlucky 43% in the minority rioting and burning down the Main Street window?

The problems of victory determination are not insurmountable. The game could be played competitively with friends; the program's graphs could be used to set goals for a particular match, with the player coming closest to the targets declared the winner. In case of close calls, the lack of displayed numbers will prove a bone of contention. Another way to adjust the game is to tinker with the 152 assumptions used in the computer model, which could be useful for handicapping. The trouble is that all this will take long hours of thought and preparation to set up a 2-4 hour game. Games can be saved and assumption changes can be recorded for later replay, which helps spread the pain over several shorter sessions.

While the fun may be somewhat limited, the program a bit difficult to use, and some definite biases present (a funeral march plays whenever the Canadian "single payer" socialized medicine plan pops up on the screen!), *SimHealth* still offers much at a good price, and in a good cause. For those who think that "the play's the thing" and who are not too fussy about winning and losing, this game will prove especially attractive. It is also recommended for those who want to "get under the hood" of a game and tinker with its black-box assumptions—something most of us would like to do with our real-time, real world political model. CGW



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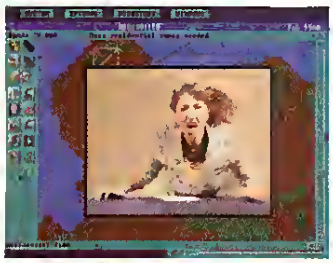

The SimAction News keeps you posted on daily disasters and other headline news.

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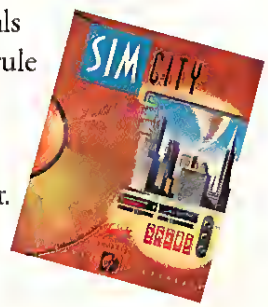

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Unleashing the Power of Flight Sim Toolkit

The Last in a Three-Part Series

by Matt Miller of Domark

In the April issue of *CGW*, we began this series with an introduction to two of the five editors in *Flight Sim Toolkit:* the Shape and Color editors. Readers were exposed to several previously undisclosed methods used to create realistic aircraft, as well as some tips on the best use of color in a simulator.

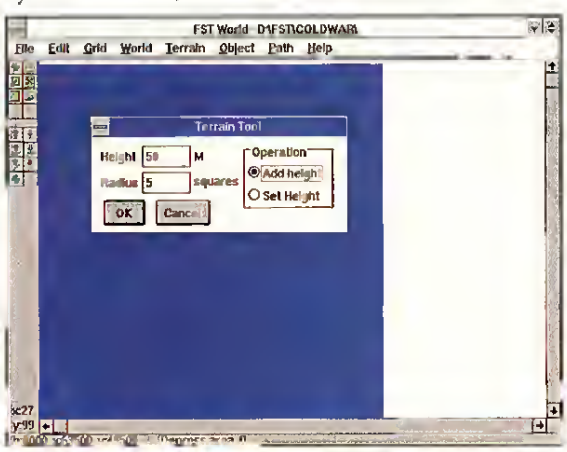
Last month, we looked in depth at the Model, Cockpit and Sound editors. Various examples of how to utilize the functions of the Model editor to create realistic flight characteristics for your aircraft were provided. The Cockpit editor examples defined useful cockpit instrumentation and how to place them appropriately on a panel. Sounds were easily imported into the sim using the basic Sound Recorder that comes with every copy of Windows.

In this final installment we will explore *Toolkit*'s most powerful tool, the World editor. The World editor will bring to life the work completed in the past two articles. Here you are able to lay down terrain, determine where objects are placed, and determine what characteristics those objects will have. Enemy flight paths for aircraft and firing rates for ground forces are also selected here. You may even choose the routes of enemy supply lines, adding to the challenge of the sim.

The scenario we are working with is a simple one. A U2 spy plane has been stolen by the Soviets and is being flown out of the country somewhere over the Aleutian Islands. You pilot a single Hornet, which is launched to intercept the U2. Soviet aircraft and surface vessels try to down the Hornet, protecting the U2 and the secrets it holds, something the U.S. cannot afford to let happen.

Islands In The Screen

One of the unique features of sims created with *Toolkit* is that you can create a virtually unlimited playing area. Thus, we begin in the World editor by deciding how large a playing area we want to use. I would suggest for our *Coldwar* sim that we make it three tiles high by six tiles wide, which can be set in the World menu item in the Project Manager box. This is also where we will select the colors for the sim (COLDWAR.FCD).



Create the island you've always wanted with the Terrain Tool Action.

With the tiles of your world laid out accordingly, you will now want to start creating the Aleutian Island chain to be used as a backdrop for *Coldwar*. Move the highlight tile (the square box in the Project Manager) over a tile that you want to edit, then click on the World Editor tool in the Project Manager. Make sure you are in terrain mode of the editor by ensuring that the "Terrain" button is depressed.

We will begin with a large expanse of sea. This "blue water area" is where we will be creating the island chain. Go to the Terrain menu item and select Tool Action. Change the height to 50 meters and the radius to five squares. Make sure that the selector is on "Add Height." Using the Raise Point tool you will create small mountains 50 meters high and five squares wide with sloping sides down to the water level. Each time you click on a particular spot you will raise that area another 50 meters. Click several places on the screen and create a mountain range covering most of the water.

With a newly created mountain range, you may want to randomize the terrain a bit. This can easily be done by adding Fractal Iterations into the terrain. Fractalizing terrain lays down random "fault lines." Select Fractalize Terrain and highlight the entire terrain tile. Do this two or three times to get a good land mass to work with.

Our next step is to make islands out of our expanse of terrain. Select the "Lower Point" tool and smooth out the edges of the various islands by clicking on the range's perimeter. You will notice that this makes very convincing valleys and rivers, and if we take it a step further, creates islands in an island chain. Repeat this process for every terrain tile in the Project Manager. Once completed, you will have a very good looking chain of islands within which we will create the remaining sim characteristics.

Since we need an airport for jet takeoffs and landings, we are going to need to level out some terrain to build it. Select a terrain tile near the left of the screen, and choose one of the larger islands. Move the mouse over the

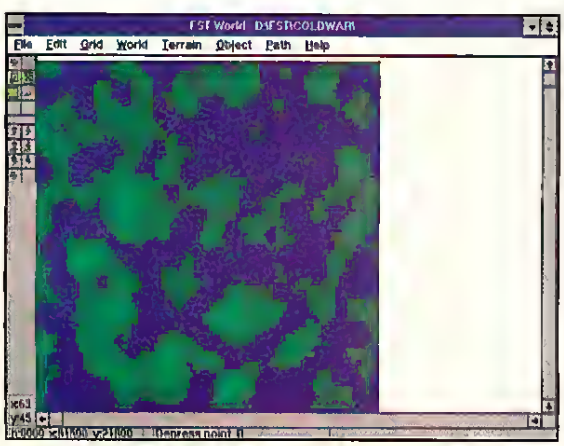
island terrain and read the status bar on the bottom of the window. Try to get an idea of how high the terrain is in general. Go to Terrain on the menu bar and select Tool Action again, but this time select the Tool Height to be the height that you determined was the average for the area. Now use the Raise Area tool to level the land for your airstrip. You want to raise about a 4 X 5 square area for your airport.

Airport '94

The first object we want to place on the terrain will be the U.S. Naval Air Station in the Aleutian Islands. We will start by putting down two Runways on the area of land we leveled in the previous step. This is the most important consideration regarding laying down objects in *Toolkit*: *never, ever, cross the grid lines with an object.* Crossing the lines will "cut" the object in pieces, and not all of those pieces will be displayed in the flight sim. Many of our users suffer from disappearing runways because they are crossing the grid lines when creating the object.

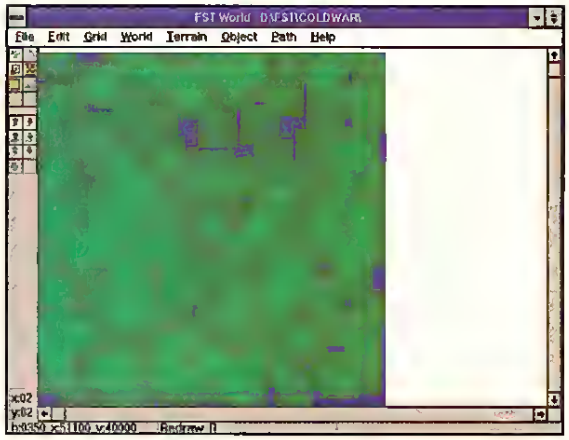
Now, get the World Editor into Object Mode (1st button, 2nd column). This will allow you to lay down objects and place them in appropriate positions, as well as give them properties. Zoom in on the island you leveled by clicking on the Zoom In button and selecting the area you want to Zoom In on. Click and drag the highlight box over the area. If you want to get a better view of the area, Maximize the World Editor screen by clicking in the Maximize/Minimize button at the top right hand corner of the box. This will make everything a bit larger and easier to work with. To zoom in on one specific square, just double click on the square after selecting the Zoom In tool.

When you have sufficiently zoomed in, select the "Place Object" tool in the editor.

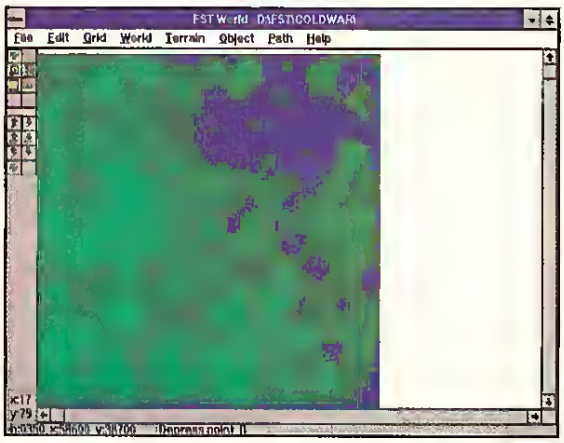


Use the Lower Point tool to smooth out the edges of your island chain.

Click in the middle of one of the leveled squares. This puts down the default object "BOX.FSD". Since it would typically be a major challenge landing on a box the size of a postage stamp, we want to change the shape that is displayed. You can do this either by selecting Edit Object, or by double-clicking on the object itself to bring up the Object Properties screen. Here we can change what type of object it is, what it looks like, and how it acts. For the runway, we want to change the Shape to RUNWAY.FSD and leave the type at Cultural. Runways don't need to be anything else (though enemy runways might be Hangars, as they might be set to generate aircraft). On the right side of the properties box, there are three check boxes: Player, Runway and Target. Selecting "Player" marks that object as a player, and it will be the point of view for the simulation. While it is possible to mark any object as "player," you won't be able to move if your object lacks the properties of an aircraft, either civil or military.



Raised terrain begins to take shape.



Fractalising the area adds randomness and features to the mass.

Selecting "Target" will allow Air-to-Ground missiles the ability to home in on the object. In the HUD, a square will appear over the target, denoting a lock-on the Target. "Runway" is a property that allows a player to safely land and taxi on an object. Runway objects for the time being must be flat two-dimensional objects. In Domark's *FST World War II* add-on disk, however, runway objects may be anything, allowing aircraft carrier landing. Runways also have a hidden ability: Should you come to a complete stop on the runway and shut down your engine, your aircraft will be automatically rearmed for re-engagement!

Place two runways side by side and then two in the square above the one you just laid out. You now have a large runway that is easily accessible for landings. If you wish, you can also place some cultural objects around the airport. Hangars, other aircraft, etc., can all be laid down very easily. You don't even need to change any of the object's properties, except perhaps the shape.

Placing a beacon at your airport acts as a navigation aid to help you find your way back for re-arming. Place the Tower object and change it from Cultural to NDB (Non-Directional Beacon). You want to give this NDB some more defined properties, so click on the Properties button at the bottom of the screen. Change the NDB frequency to 110. We will also be putting an NDB along the flight path of the U2 that you are trying to destroy, so you will be able to use that as a navigation point to help you find the aircraft after you do some dogfighting with Soviet Blackjacks (it's easy to lose your sense of direction performing a Split-S!).

You can lay down more runways if you'd like (you may want one going East-West as well); just remember to mark *every* runway object as "Runway" in the Object Properties section. You can change the angle that any object is shown at using the Angle property in the Properties section.

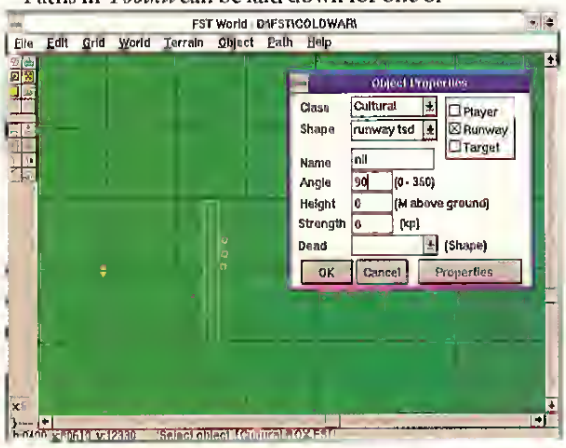
A Path Well Taken

Webster's New World dictionary defines "path" as: 1. A way worn by footsteps; 2. A walk for use of people on foot; 3. A line of movement. While the first two make sense if you are hiking or playing a computer role playing game, we are most interested in how *Toolkit* handles the third definition.

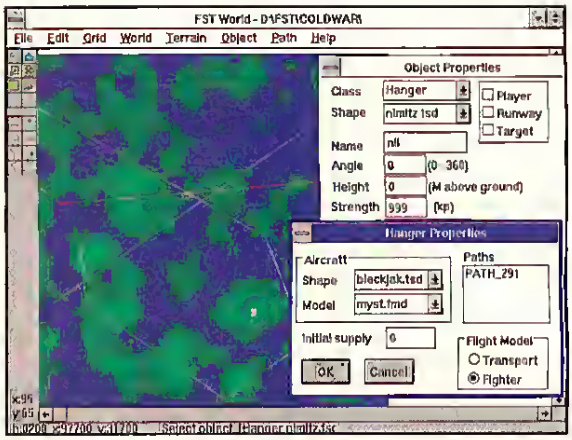
Paths must be associated with a Hangar (for aircraft) or a Depot (for ground units). After defining a path, you must link it to one of the above object types using the Link Path tool. A path does *not* need to begin at the object. A box on one side of the world can be generating an aircraft somewhere on the other side. If the box is destroyed, it will sever the link and aircraft will stop being generated. The most common use for this is a Hangar-object generating aircraft that begin on a runway.

Paths in *Toolkit* can be laid down for one of two purposes. The first and most common path is Combat Air Patrols on which enemy fighters are sent. Enemy aircraft on this path will follow it until the player comes within 50 kilometers of their position, at which point they will break from the path and engage the player in air-to-air combat.

We must also deal with re-supply paths, which are most often used with ground units, re-supplying SAMs, and AA guns that have run out of ammunition. One trick available to you is to re-supply a Hangar or Depot that re-supplies something else. Let's take a look at a few examples:



Place the runway and airport objects on your flattened area.



Designating paths (flight lines) for bogeys to follow.

Example 1: The Bridge

We can simulate an enemy supply line by creating a Bridge as a Depot that begins with zero objects. We then create another depot that re-supplies the bridge with objects (trucks, tanks, whatever). Thus, we have one path that ends with the supplying of one truck by the Bridge Depot. The Bridge/Depot then sends out another ttuck. This way, should the player destroy the bridge, the supply line will be severed.

Example 2: The Enemy Carrier

Here we will have a path for an aircraft that re-supplies an aircraft carrier hangar with enemy aircraft. We are simulating an enemy fighter landing, refueling/rearming and taking off again. Mark the first path as Supply, the second as Fighter, so that the enemy plane will not break off to attack you as it comes in

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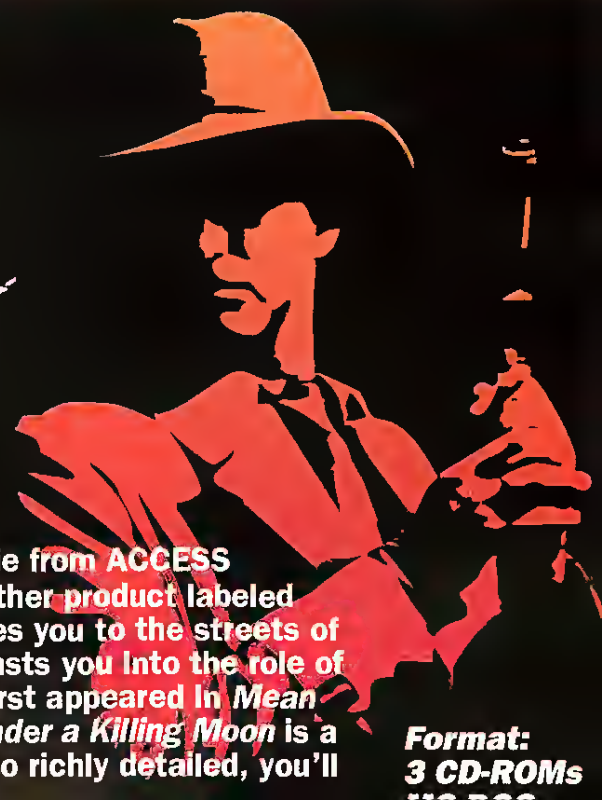
UNDER A
Killing Moon



This category-creating Interactive Movie from ACCESS Software goes light years beyond any other product labeled "interactive." *Under a Killing Moon* takes you to the streets of post World War III San Francisco and casts you into the role of Tex Murphy, Private Investigator, who first appeared in *Mean Streets*, then *Martian Memorandum*. *Under a Killing Moon* is a Virtual World full of people and places so richly detailed, you'll

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to land. For *Coldwar*, we will be using this to simulate long tange reinforcements.

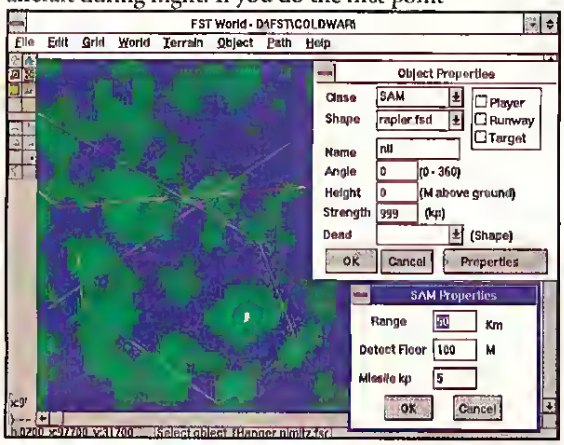
Example 3: The Civil Airport

Aircraft will take off ftom an airport, fly around for a while, then land at the same airport, re-supplying the airpott with one more aircraft. This aircraft will then take off and fly the same path in a continuous loop.

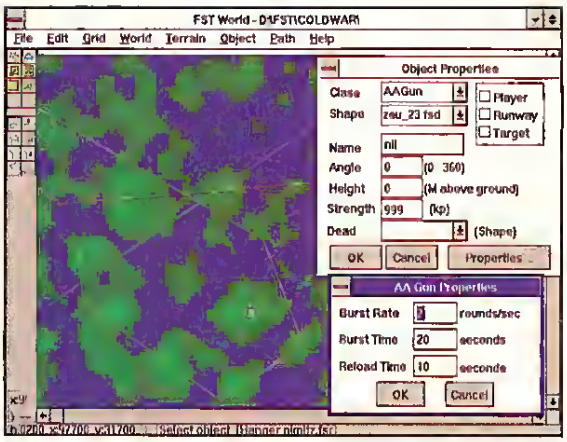
When you lay down a path, it is not necessary to edit each point on the path to instruct the speed of the vehicle or the height of the aircraft during flight. If you do the first point on the path, then the vehicle will use that data for every point afterwards, until it reaches a point where something is different. Aircraft paths with very sharp tutns will be executed to the best of that aircraft's ability.

In a civil simulation you will want several aircraft flying about on paths, giving you a little scenery in the sky to look at beyond that being viewed on the ground. In *Coldwar*, we ate going to set up one simple path, from one map edge to the other, for the U2 to follow. To run the path along the entire length of the map, you are going to have to exit from the World editor, move the highlight box over, then reentet the editor and drag the end point of the path to the edge of the tile. Repeat this process until the U2's flight path runs the length of the map.

The U2 itself has not yet been entered into the sim, so we must create a hangar that generates one U2. One possible trick is to create an object that has no polygons and save it as INVISIBL.FSD, giving you the ability to create an object made literally out of "thin air." The invisible object can be anywhere, as long as the U2's path is linked to it.



Make SAMs as deadly as you want, but don't whine when they wax you.



You can adjust the number and intensity of the enemy's AA guns.

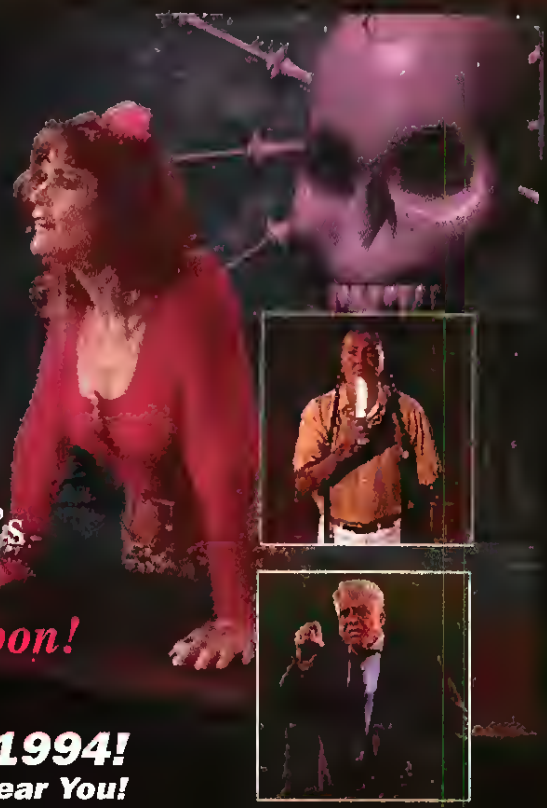
Bandits, SAMs, and Triple A

Now we come to the fun part of *Toolkit*'s World Editor, as we determine the enemy forces we will use and how ferocious their firepower will be. For the enemy fleet, we will probably want two aitctaft carriers and several picket ships to thwart the Hornet's progress.

ual World Interactive Movie!

Q: What do film stars *Brian Keith*, *Margot Kidder*, & *Russell Means* have in common?

A: They all star in ACCESS Software's new CD thriller *Under a Killing Moon!*



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Place one of the carriers near the middle of the map, and place the other near the western edge. Give each of these vessels 1500 kill points, so that only missiles will be capable of taking them out. Place several picket ships around the carriers, worth between 500 and 1200 kill points each, to serve as the carrier's protective shield.

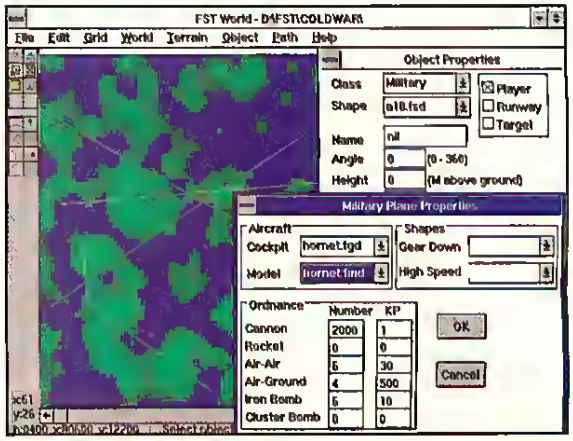
Of the two ways to get the picket ships to fire at the Hornet, the simplest is to mark the ships as AA Guns in the Properties section, and also set their rate of fire and reload time. The main advantage is that you can set down several ships of this type quickly. The drawbacks are that you cannot have more than one AA Gun firing per ship, plus the AA gun itself can't be destroyed without sinking the ship.

A better way to handle ships firing back at you is to place AA Gun shapes on the ship itself. Place the guns on the high points of the ship, so it doesn't blow itself up when you fly by. You will now have several AA guns firing at you as you pass over the ship, and you have the ability to pick off individual AA guns when strafing the boats—a cool effect, especially if you give them low Kill Power between 2 and 10.

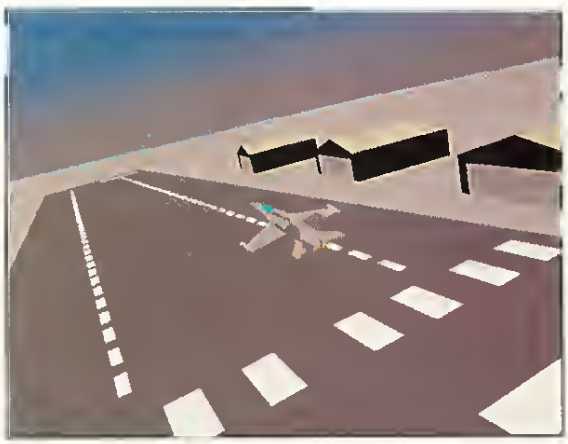
Enemy air forces will use the BLACKJCK.FSD shape from the Library. Much like the carrier supply line in the paths section above, these aircraft should land and take off again. Mark the carriers as "Hangars" with an initial supply value of zero (or maybe one or two, depending on how vicious you are). Then you want to place an INVISIBL hangar on the West map edge that generates a Supply Blackjack. Create a path from the West map edge to the carrier, and then create a path for the CAP (Combat Air Patrol). The CAPs will most likely intersect the U2's flight path, which will give you an additional challenge when engaging the U2. The flight models you denote in the Hangar Properties section determine what the aircraft are armed with in the game. A jet engine-equipped aircraft will have guns and missiles, while a prop aircraft can have only cannons.

Your flight plan today calls for severe turbulence, the likely event of sudden cabin decompression, and you may get a view out the side windows of your wing on fire. Have a nice flight!

After the set-up of the AA and aircraft comes the dreaded enemy of the fighter pilot. Surface-to-Air Missiles (SAMs) track down your aircraft based on the heat emissions of your jet. The only recourse a pilot has is to drop Chaff decoys when he hears the MAW (Missile Approach Warning). Place some SAMs on ships and a few on the islands to add increasing levels of difficulty to the sim. Don't put down too many SAMs though, as they can turn your aircraft into Swiss cheese if you aren't careful! AA Guns can be placed with abandon, since their hit ratio is pretty low, but SAMs are deadly and accurate. By marking the SAMs as targets, they can be more easily destroyed by your Air-to Ground missiles, which simulates radar-seeking missiles such as HARMs. You may want to make the scenario tougher by having only SAMs marked as targets, simulating the loading of only High-speed Anti-Radiation missiles. Or you can mark other targets (like the ships), giving you lots of targets to choose from. SAMs should have between 10 and 25 kill points.



Always keep a stock of missiles, bullets, and bombs on hand in case company decides to drop by.



Scrambling in your very own Hornet from a base you created is a singular thrill.

The Player

The final component involved in building your sim is placing down the Player object. Go back to the airport you originally set up, and zoom in close to one of the runways. Place an object, then go to Object Properties. Change the shape to "A-18" (the Hornet shape included in *Toolkit*, found in the Library sub-directory). Now mark this as Player, and change the object's class to Military, then select the Properties button on the panel. This brings up the Player Arming screen and properties section. The work we've done over the past two issues comes to fruition here, so let's input the variables!

Change the cockpit to HORNET.FGD and change the flight model to HORNET.FMD. If you want a gear-down shape, it is no trouble to go into the Shape Editor and add a set of landing gear to the Hornet; then, using the "Save As" function, save the new shape as A-18GD.FSD (for Gear Down). The Hornet does not have Swing Wings , so we can leave the High Speed shape blank.

Now we have to arm the Hornet with ammunition. What we decide on here will determine the level of challenge built into the simulation, giving you the ability to build sims to match your own level of play. For a good balance of playability and realism, I suggest the following:

Cannon: 2000 rounds at 1 KP each
Air to Air: 6 missiles at 30 KP each
Air to Surface: 4 missiles at 500 KP each
Iron Bombs: 6 bombs at 10 KP each.
You are now ready for play!

Learning to FLY.EXE

The FLY executable is the command you run from DOS (or Windows, if you have over 16MB of memory) that starts the flight sim component of *Toolkit*. There are numerous "switches" for the Fly executable that change the way the game is viewed and played. The

most common switches are "-S", "-A", or "-V". These three switches set the screen size to 640x480 pixels instead of the default 320x200. The S stands for S3 based Windows Accelerator cards, the A stands for ATI Mach 8 or Mach 32 based Windows Acceleratots, and the V stands for VESA compliant video cards (version 1.2 or later). Some S3 cards need the VESA driver installed before the S3 chip can work to full effectiveness; so if you are convinced you have an S3 card, but the computer won't take the -S switch, try loading the VESA driver beforehand. Remember that you can only run the sim in the same resolution as the cockpit you have designed for the player. In the TOPGUN and PILOT simulations included with *Toolkit,* Domark used a batch file instead of the normal FLY command to start the game. This allowed us to maneuver around the issue of display choices on various machines. The Batch file rewrites the WORLD.FST file into a new WORLD.FST file that has the variables loaded for it automatically. Experienced DOS users may want to try this as well, as it allows many users to enjoy sims created with *Toolkit* as long as they have DOS-based PCs. As such, *Toolkit* is used to create sims but not to fly those sims, because the Windows-based engine that *Toolkit* uses doesn't run the sim portion of the game at acceptably fast speeds. FLY.EXE requires very little conventional memory (330K), so virtually any computer has the capacity to enjoy *Toolkit* sims.

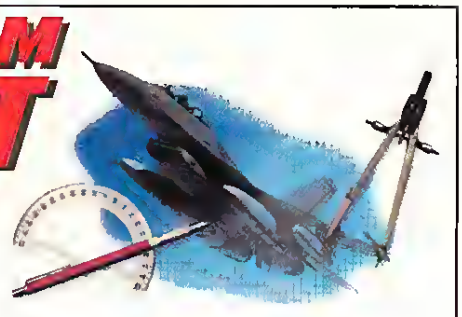
Another switch you may be intetested in is "-P" for Optional Player. Used in the following manner: "FLY -S -PFALCON" where Falcon is the name of the object you want to use as the player. Set this up in the World editor by creating a playable object (in shape, Object Class, flight model, armament, etc.). Then, in the Name section of the Object Properties, enter a name that can be entered immediately after the -P (as in -PFALCON).

Mission Complete

I hope you've found this three-part series on unleashing the power of *Flight Sim Toolkit* informative and helpful in mastering the creative process. Be on the look out for the high-flying World War II add-on disk featuring the Battle of Midway and D-Day scenarios. *FST WWII* will be released to stores near you in May and will be followed soon thereafter by *FST Helicopters.*

For the time being, however, test your newly honed sim building skills by participating in Domark/*CGW*'s sim building contest: *A World of Flight* featured on this page and win lots of exciting prizes. CGW

FLIGHT SIM TOOLKIT



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CONTEST RULES

- Registered owners of Flight Sim Toolkit only. If you haven't registered already, now is the time!
- Entries must use four of the five editors in Flight Sim Toolkit.
- Entries will not be accepted after 11:59 PM PDT, August 10, 1994.
- Winners will be selected by the sole discretion of Domark Software, Inc.
- To be fair to all entrants, entries will NOT be judged on the following criteria: Title screen, sound effects, and cockpit background picture.
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External 14,400bps data and 14,400bps send/receive fax/modem. V.42bis data compression for up to 57,600bps throughput. SilentAnswer supports receive fax and voice calls on one phone line. Caller ID, when supported by the phone company, displays information about incoming calls. LED display lights track modem activity. Package includes WinFax Lite, FaxTalk COMM and CompuServe Information Manager software. 5-year warranty!

Supra Corp.: WIN/DOS, MAC **$159**

BENEATH A STEEL SKY

In the not too distant future, you have two choices: live in the giant city states controlled by the vast corporations or reside in a wasteland known as The Gap. As Gap dweller Robert Foster, your peaceful existence is decimated by the arrival of security forces intent on taking you to the city. The route to solving this sci-fi mystery and freeing this city of oppression is littered with logical problems to solve, security clearances to forge and military forces to evade.

Virgin: IBM **$39**

MYST

Journey to an island world surrealistically tinged with mystery. As you explore this world you'll learn that MYST was created by a man who perfected an amazing art of writing books that transport readers into fantastic worlds. Only your wits and imagination will serve to stay the course and unlock the ancient betrayal of ages past. Experience a first person point of view with no distracting controls or windows. Delight in an original soundtrack and sound effects that enhance the sense of realism. Unlike other adventure games, there's no inventory and players don't die.

Broderbund: IBM CD, MAC CD **$49**

AUDIO MAGICIAN 16CD

True 16-bit card with 16-bit stereo sound. Integrated 16-bit A/D D/A Converters. Built in Joystick Port with 2 Joystick capabilities. Four operator, 20 voice FM music (Yamaha Synthesizer OPL3). Internal CD ROM Audio Interface. Microphone jack and amplifier. Sound Blaster and Adlib Compatible. Compatible CD-ROM Drives: Panasonic CR 523B/CR 562B, Sony CDU 31A/CDU-33A, Mitsumi CRMC LU005S/CRMC FX001D, Wearnes CDD-110. Includes 3.5" disk for Wolfenstein 3D.

Calypso: IBM **$98**

F-14 FLEET DEFENDER

Pilot the Navy's first line of defense: the F-14 Tomcat. Experience all the excitement of a catapult launch, realistic air to air combat and the challenge of landing on a pitching deck. Features the latest in 3-D terrain technology derived from digitized information taken from LANDSAT geological surveys. You'll pilot your F-14 through actual locations. In air to air combat, you'll interact with F/A-18 Hornets, A-6 Intruders, A-7 Corsairs and E-2C Hawkeye AWACS. Realistic enemy AI patterned after Soviet and Third-World military doctrine.

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Microprose: DOS **$49**

MICROSOFT GOLF

Experience the true-to-life challenges of the game of golf while enjoying the stunning beauty of the means de Torrey Pines Golf Course. Compat-ible with Access' LINKS Championship Course Disks. Practice at the driving range or putting and chipping greens. Analyze your lost shot or hole in one with the instant replay features. Tee off with up to eight golfing partners. Take a mulligan, gimmie, or redo it with one click. Photo-realistic scenery and stunning graphics bring this challenging course to life on your desktop.

Microsoft: WIN **$42**

UNDER A KILLING MOON CD

Interactive movie takes you to the streets of post World War III San Francisco, into a Virtual World full of people and places so richly detailed you'll feel like you're actually there. Hollywood stars add credibility and the necessary talent.

Create a personalized Tex Murphy movie which can be replayed at any time. Rich original music, high-quality digitized voices and sound effects make this interactive movie as exciting as it is visually stunning.

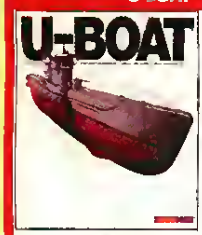
Access: DOS-CD **$56**

GRAVIS ANALOG PRO JOYSTICK

Designed specifically for flight simulation and action arcade games, the Gravis Analog Pro includes a built-in throttle control, five fire buttons, including a trigger, eight adjustable tension setting, a "throttle off" feature that helps to avoid conflicts with multiple joystick configurations, six feet of cord, and a foam padded handle.

Advanced Gravis: IBM **$36**

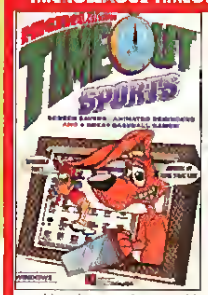
U-BOAT



If you've always dreamed of spending months at sea in the claustrophobic confines of a WWII submarine, this is for you. Bring along a good book to while away the off-watch hours. Also bring the nerve to withstand incessant barrages of depth charges rattling your teeth at 200 meters. Bring the intelligence not to venture a surface shot on a capital ship in broad daylight. Bring the skill to navigate treacherous waters.

Deadly Games: MAC **$34**

MICROLEAGUE TIMEOUT SPORTS



Four fun, fast baseball games hosted by two zany characters. Bernie and his dog Jock are here to brighten your life with their inimitable antics. They're on 24-hour duty to prevent your screen from burn-in and your mind from burn-out. Random hourly or pre-set attention grabbers featuring Bernie and Jock pop-up on screen to remind you to take a break---with any of the four fast and fun filled baseball games included: Batting Practice, Fungo Fielding, Sign Calling 101, or Umpire arguing.

Microleague: WIN **$24**

EMPIRE SOCCER

All the excitement and fast paced action of the World Cup competition. Take total control of all the teams vying for the Worlds most coveted sports honor. Each of the 24 national teams has been meticulously studied and rendered so that they mirror the strengths and playing styles of the actual squads. On the field, perform all the moves that these elite athletes the best soccer players in the world.

Empire Software: DOS **$29**

BATTLEDROME

High tension and high stakes fill the Battledrome arena as fully articulated Herculons wield their might effortlessly across the cyber-scope Battledrome pulls it all on the line as mighty Heros fight one on one for power, pride and money. Battledrome is a virtual reality combat arena where strategy and tactics count as much as firepower. Choose your Herc, its weapons, the arena conditions, the feel of battle, and the amount to wager. Modem ready.

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Sigma Designs: IBM — **$299**

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Develop cultural resources and manage the growth of your population. Allocate natural resources to build missile sites, radar stations, shipbuilding facilities and superships. It's up to you to destroy your nemesis or end up in Davy Jones' Locker! Modern Play. City Economics-Cultural and industrial aspects. A wide selection of ship types. Random maps—unlimited variation. A truly challenging AI. Battles include Falkland campaign, Battle of Northcape, The Bismark Tirpitz Connection, Surigoo Straight, Yamamoto's Trap, etc.

QQP: DOS — **$34**

HACKER CHRONICLES CD

Over 12 years in the making! Contains stories of how they did it, actual breakins, arrests and prosecutions. Most articles were written by the actual people who committed these acts. Access articles and software with an easy-to-use menu system. Areas of information include Phone Phreaking, Computer Hackers, Satellite Communications and "Underground" General Information. Many subjects all very technical in nature and explained in detail, such as ATM's, credit cards, voice mail, etc.

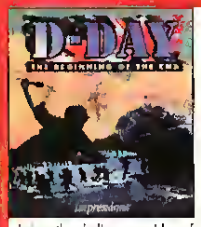
S&S Publishing: IBM CD — **$24**

MORPHMAN CD

You are the super hero Morphman and it's your job to rescue the kidnapped Professor, destroy scientific experiments and blow up a research fortress. The world is depending on you and your Morph technology to accomplish this task before the experiments reach civilization. Your only weapons are your wit and the molecular sampler on your sleeve that allows you to alter your own molecular structure and that of objects around you. Features realistic 3D animation with Microsoft Video for Windows. Realistic 3D explosions, disintegrations, glowing and other special effects seen only in movies.

Dynamic Dimensions: DOS-CD — **$28**

D-DAY



A full-fledged campaign game where each player commands either the Allied invasion force or the Axis defense force in a bid to either take Berlin or repel the invasion. The game brings the challenge and fun of computerized miniatures to WW2 for the first time. Unit types, initial placement of units and available reinforcements will all be historically accurate. A variety of shorter scenarios enables those people not wanting to play a mammoth campaign to gain enjoyment and value from the product.

Impressions: DOS — **$39**

DISCIPLES OF STEEL

The disappearance of your father has left Lanthor without a leader. Factional infighting in the resulting power vacuum has left the realm in chaos! Save your once-rich land by re-establishing the supremacy of the guilds. Choose your disciples and strategies, build vast armies to conquer or defend, heed the counsel of the lords or assassinate them—everything is under your control! Control and develop up to 8 disciples. Large array of powerful weapons. Huge selection of magic spells.

FormGen: DOS — **$34**

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Access Software: IBM **$39**

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Psygnosis: IBM CD **$45**

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Accolade: DOS, IBM CD **$33**

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Join in the exploits of Captain Gustavus and his loyal compatriots, travelling the lands of Hestor in search of a strange Sage who may hold the knowledge that could save Gustavus' homeland from a despairing horde of save Daemons Features over 150 hours of playing time thousands of screens to journey huge 70,000 word conversation system, realistically modelled game world Detailed background manual

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Fleet carrier operations in Southeast Asia 1936-1946 This sequel to the hugely successful CARRIERS AT WAR uses a much improved version of the original mechanics Spans a decade that changed the world Offers more tension, more excitement, tougher opponents and more dramatic Carrier battles The uncertainty of war is vividly recreated Eight scenarios included some hypothetical others controversial Explore all aspects of tactical and strategic combat between Japan and the United States and Great Britain

SSG: DOS **$39**

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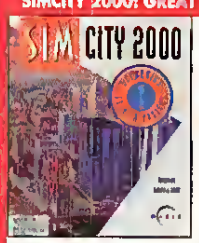

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Maxis: DOS,MAC **$14**

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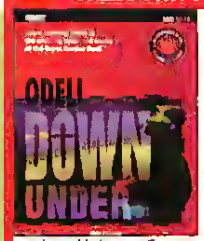

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[illegible] Time is C[illegible]	
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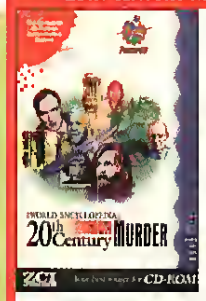

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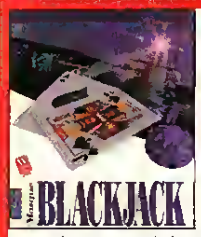

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Letters from Paradise

Sili-wood

I tend to agree with most of the views expressed in *CGW* regarding the computer game industry. Howevet, I can't believe you guys actually think the "Hollywoodization" of computer games is a GOOD thing. A best actot award? Give me a bteak! The best actot in any computet game should always be THE PLAYER! If the playet is forced to take on a suppotting role, upstaged by some Hollywood star, it's not a good game. If you teally must give someone an award fot best actot, give it to me. I've statted in hundreds of computet games!

John Entight
Boca Raton, FL

It is the responsibility of the press to act as informed observers. In the case of the so-called "Hollywoodization," we observed in our July, 1993 editorial that this phenomenon would have at least five effects. First, the "High Concept" mentality of Hollywood could lead to an undesired reduction to the lowest common denominator in game design. Second, the Hollywood mentality would place an emphasis on pyrotechnics or special effects. Third, Hollywood connections would lead to a new era of cross-promotion and licensing deals. Fourth, the big studio involvement would create a more difficult environment for small developers to enter. Fifth, the content standards of games would be liberalized extensively. We hardly think that such observations should lead to the perception that we think this "Hollywoodization" is strictly a good thing. However, we think that the introduction of solid acting talent into the world of computer games IS a good thing, and we decided to celebrate it with our multimedia acting awards.

Darklands: The Last Generation

Your January, 1994 (#114) edition contained an intetesting and favorable commentary ftom one of your readers about the game *Darklands.* This comment intrigued me so much that it occutred to me to track down the game's development as mentioned in *CGW.* This is what I found:

1. The first announcement that I could find was in *CGW* #80, March 1991, in the form of an advertisment which showed a hooded figure with a white dove.

2. The first time the "official" ad appeated (a man wielding a sword) was in Febtuary, 1992. It bore the promise that "...this March, the Middle Ages tetutn," a ptomise it couldn't keep.

3. In May of 1992 came the excellent Sneak Pteview by Johnny L. Wilson.

4. *CGW's Stock Watch* in Septembet 1992 noted that *Darklands* was one of fout ptoducts by MictoPtose that failed to meet its deadline.

5. *CGW* fot December 1992 contained Scorpia's opinion, slashing the game into pieces, and Johnny L. Wilson's countetpoint, defending it. The edition contained also the first of Sam Baket's two-part strategy seties of articles on the game.

6. Still in the December issue, the PC Research Hits List, Playing Lately, responses and quotes wete very good on *Darklands.*

7. In January of 1993, *Darklands* was number 97 of the Top 100 Games and in the "Big Five" of both the PC Research Hits List and Playing Lately.

Unfortunately, I could not obtain the *CGW* issues from February to May of 1993. Surprisingly, in the June 1993 edition, only the Rumor Bag made a passing teference to *Darklands.* All the other writings and articles, the Top 100 Games ratings, etc., seem to have fotgotten it completely.

This impression is dispelled by the opinion from one of your teadets in your issue #114, as mentioned at the beginning of this letter. So, unless I got the wtong pictute due to the editions I missed, I believe that *Darklands* is a game that does not get people addicted so that they can't do ot think anything else, but play the game continuously fot the next few months, but what it does have is a quality that will make it a joy to go back to from time to time. Pethaps, like *Star Trek* (whose ratings were shady on the seties' original release), the game *Darklands* will amass a huge following that will spawn *Darklands: The Next Generation,* set in 16th Century Getmany. What do you think?

Mark Alexandet
Bandung, Indonesia

The original plan from ***MicroProse*** *called for three products. The first was set in Germany because designer Arnold Hendrick considered it the most violent and superstitious of medieval cultures. He also wanted to do similar games based on medieval Britain and Italy. With both King Arthur and Machiavelli's Cesare Borgia to build upon, we actually thought the latter two products had more marketing potential than the original. Unfortunately, the game didn't sell well enough to meet the expectations and the game "engine" isn't exactly an engine. It would require so much new code (as well as new research) in order to produce a sequel that such a product would be almost as expensive to publish as the original, if not more so. In short, we don't ever anticipate a sequel.*

All Patched Up

For those of you who missed it in the April issue, here's a reptint of what will undoubtedly go down in the annals of computer

gaming as the greatest and most significant patch notice of all time:

The Patch File (p. 185)

*** Metal and Lace (The Battle of the Robo Babes) V1.42A Update: Fixes a few minor bugs and adds an Easy and Hard mode. 1/20/94.*

I'll leave it at that.

Jim Corbin
Lowell, MA

So will we.

More Power

Great job on the audio sound card feature. It's really confusing our there, even on the networks. I would love a similar article on video card upgrades. Again, thanks for all the pleasurable reading and invaluable information.

Russell L. Reed
Brandon, FL

We hope you find this issue's article on multimedia upgrade kits to be just as useful. The video card article sounds interesting and we'll give it some consideration.

The End Is Near

You haven't reviewed my new "Reveal" double-speed CD-ROM and great PRO FX-16 sound board. All floppy disk products are doomed. I will never buy another one. CD-ROM is here!

Jay Beards
Lincolnville, ME

P.S. Do you only review advertisers' stuff?

Your board is covered in this issue's article on upgrade kits. As for your question, the answer is an unequivocal "No!" We do not only review products by advertisers. However, there are very few publishers that do not advertise with us, so it sometimes appears that this is the case. We not only review products which are not advertised, but we have run cover stories about non-advertised products and have given awards to non-advertised products. Just don't tell our advertising department, okay?

Game, Set, Match

"Toward A Gamers' Liberation Movement" expressed precisely what we game beholders have known for years. The term, "game," like the term, "computer," is hopelessly inadequate as a descriptor of what these products really, virtually, are. We gamesters are swimming in a whole new plasm of the senses and the mind. That's justification enough.

Michael McClintock
South Pasadena, CA

We'll have whatever he's having. Actually, we already did.

Just a quick comment or two. First, on the editorial concerning the Gamers' Liberation Movement. Great Stuff! I am 41 years old and started with pinball machines, moved through *Pong* to *Tank*, *Galactica* and so on. In magazines, I went from [video game magazines] to *CGW*. You guys have a great publication that has saved me much time and money. Thanks!

Joseph Shaffer
Vernal, UT

Classical Grasp

I have been reading your excellent magazine for over two years now, and have enjoyed it immensely, even when you deal with stuff which I could care less about. The diversity of your publication is one of its merits, showing how your vision is not narrowed onto one specific type of game or game platform, but rather looking across the entire spectrum of evolving computer entertainment. I feel I must commend you on your top-notch work. As I told a friend of mine who scoffed at your subhead, "The #1 Computer Game Magazine," that title has definitely been earned over more than ten years of superior compurer industry coverage.

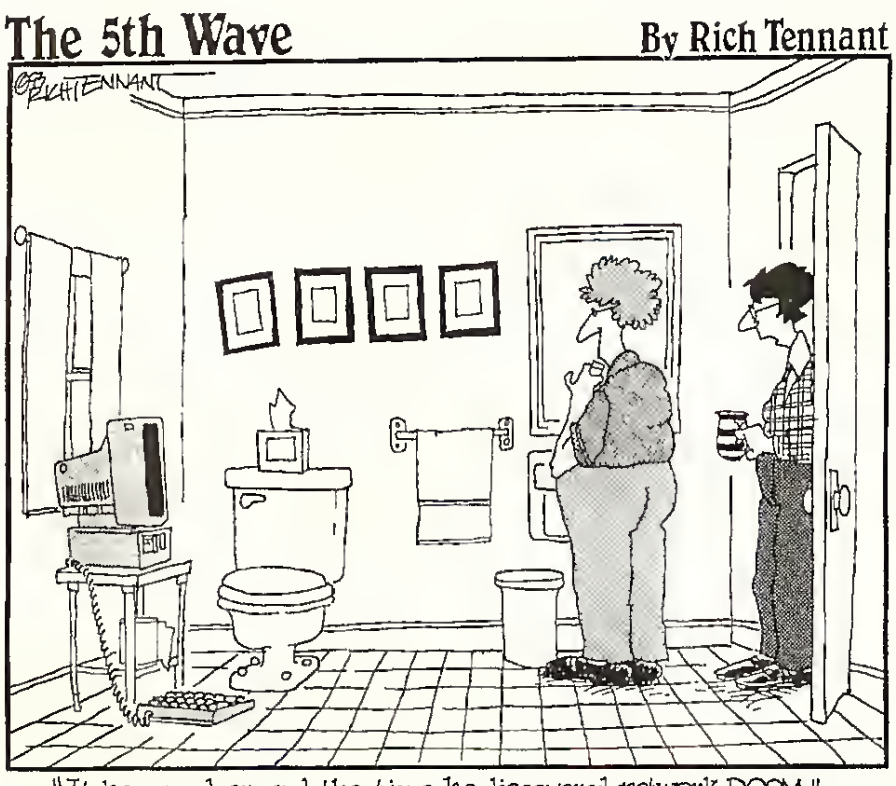
That said, I would like to get to the real point of my letter, that of a quotation I recently read from the writings of Titus Lucretius Carus (ca. 99-55 B.C.). I believe it applies excellently to the world of computer wargaming and gaming in general.

What joy it is, when out at sea the stormwinds are lashing the waters, to gaze from the shore at the heavy stress some other man is enduring! Not that anyone's afflictions are in themselves a source of delight; but to realize from what troubles you yourself are free is joy indeed. What joy, again, to watch opposing hosts marshalled on the field of battle when you have yourself no part in their peril! But this is the greatest joy of all: to stand aloof in a quiet citadel, stoutly fortified by the teaching of the wise, and to gaze down from that elevation on others wandering aimlessly in a vain search for the way of life, pitting their wits one against another, disputing for precedence, struggling night and day with unstinted effort to scale the pinnacles of wealth and power.

(Nels M. Bailkey, *Readings in Ancient History Thought and Experience from Gilgamesh to St. Augustine*, p. 393.)

Thanks again for striving to build the best computer gaming magazine possible.

F. Ross Englefield
Editor Emeritus, Brock University Press
St. Catharines, Ontario, CANADA



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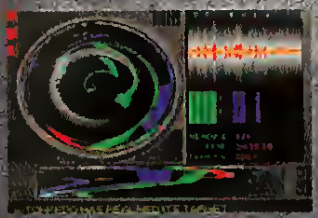
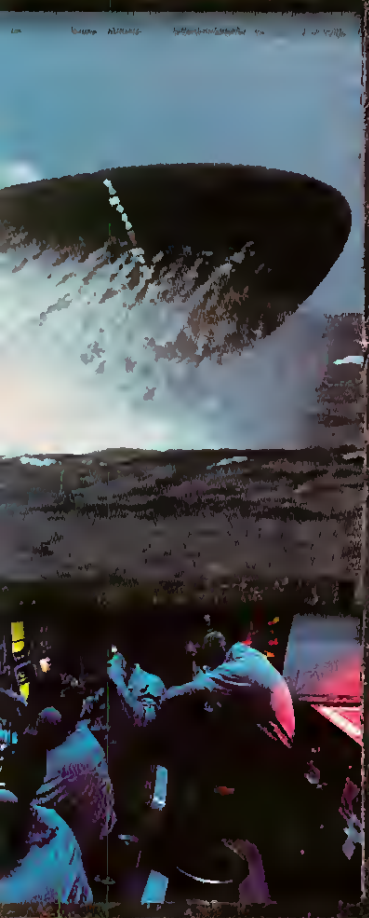


in on their targets. The menacing drone of a destroyer passing overhead



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D IDEA HOW IT SOUNDS.

Sure, it'll test your nerves. But what were you expecting, the Love Boat?

ELECTRONIC ARTS

Art by Rodger MacGowan, © 1994 RBM Graphics

Congratulations, Clash of Steel

Celebrating the Return of Fun in Computer Wargaming

by Alan Emrich

"I Came, I Played, I Conquered"

We don't want to outflank our gala Premier award coverage (starting on page 51 of this issue), but it does seem fair to talk to wargamers about the wargame winner in particular. We could talk about *Master of Orion*, as well, but we've waxed pretty eloquently on that in the past. Instead, let's consider the wargaming winner, SSI's *Clash of Steel*.

Although *Clash* has its share of flaws, it won our award based upon its most important underlying virtue: the fun factor. Now, "fun" is an adjective you don't see much of in *Computer Gaming World*, as it is broad, vague and used all too freely when describing *any* kind of game. But the word still has value, and it's sad to see a once-great word all but dropped from the wargaming vernacular.

What's In An Adjective?

Wargames are usually described in terms of their scale, complexity, and historical validity. Often, we will focus our attention on wargame elements like "perceived realism," how many ways we can outsmart the AI in battle, and the generally deplorable state of wargame rules (which, believe me, predates the advent of *computer* wargames by decades). Seldom will you get a comment from a reviewer like "this game's a stitch, we yukked it up all the way through it."

Granted, the serious side of history is important and is one of the primary attractions of the hobby. However, not all wargames are history-in-a-game-format (i.e., serious studies presented as detailed simulations presenting a command perspective). This year's winner, *Clash of Steel*, is, in fact, just the opposite. It is a game-about-history. Notice that *Clash of Steel* puts the *game* first, and, because it is simple, clean, fast, playable, and, more importantly, *re*playable—it is *fun*. A sit down, push-the-pieces-around-and-have-fun kind of wargame has been a long time coming. Sure, there have been others (*The Perfect General* comes immediately to mind), but *Clash of Steel* has really delivered the computer equivalent of the classic board wargame, *The Russian Campaign*. The game will outlast the trends, no matter where the state-of-the-art in "historical simulations" may go from here. Congratulations, again, to everyone who worked on *Clash of Steel*.

Intelligence From The Front

One pastime that has become popular with journalists in this hobby is "Sid Meier watching." While his recent *CPU Bach* awaits a better sound standard before a PC conversion is underway, Sid is back to considering the fate of his Civil War game. The status? He's got two "cool" games in one: a strategic game of point-to-point movement along the Eastern Theater and a grand tactical battle game where divisions dance over a freshly generated "battle board." The dilemma? After you formulate a great strategy on one level, it's all too easy to forget where you were strategically, after spending the time necessary to fight a grand tactical battle. This destabilizing transition "wasn't fun" and is the focal point of Sid's next design decision. Chances are that one element or the other will have some of its emphasis removed. Only time (and Sid Meier) will tell.

Civil War fans will be happy to hear that considerable progress has been made on a revamped 2.0 version of *The Road from Sumter to Appomattox* from Adanac Games. I've been monitoring closely an active group of playtesters on the GEnie network and see things really starting to come together. Perhaps the elusive Civil War game we're all waiting for may yet arrive.

With all of the work being done on the *Road from Sumter* engine, Adanac will start playtesting on their next project, *The Road from Marengo to Waterloo*, in the coming months. Offering both strategic level campaigning and operational level battles, this Napoleonic "grand design" is also likely to feature some important new features coveting diplomacy and multi-human player e-mail play.

Many recent arrivals to the wargaming hobby may have missed the glory days of SSI's award-winning Civil War battle games. Fortunately for the newbies, these classic games, along with several other SSI wargames of yore, may be reissued for the IBM format. Their limited press run is supposed to feature photocopied rules packaged in zip-lock bags, but they will sell for only $15. For more information and a complete listing of what titles might be available, contact SSI directly.

There are plenty of interesting war and strategy games peering through the Windows format. Two popular Macintosh games, Deadly Games' *M4* and Changeling Software's *Pax Imperia* (a grand strategic, galactic conquest game that is very rich in its play elements) are both due for their Windows debuts before the end of the summer.

Also on the horizon is *Victory or Defeat*, a Windows wargame that would make Dani Bunten proud. It adapts many elements common to games such as *Command HQ* and *Global Conquest* and blends them in a new way, creating an abstract conquer-the-world game for those who love to tinker and who enjoy modem play.

Finally, SDJ Games will re-release its grand strategic WWII game, *Big Three*, for Windows users. The new version of this "*Clash of Steel* for beginners" will offer AI for solitaire opponents, random events and modem play. **CGW**

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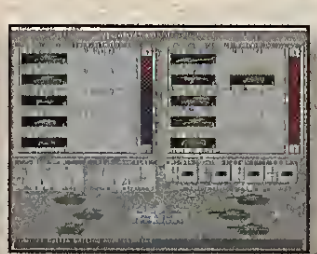

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Opponents Wanted

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- Include a brief description of the types of opponents and games you are interested in playing. Games being played other than direct by modem *can* be listed (trading save game disks or even face-to-face).
- At least one (possibly more) telephone number(s) must be included. *Do not forget the area code* and mention whether they are Home, Work or Modem numbers.
- Include your city and state so that people who call you will both: a) have a clue as to what time zone you are in and b) recognize it when they see it on their phone bill.

The Networks

The following are voice contact numbers for many of the various on-line network services that connect gamers. Call them for more information on these networks.

America On-Line: (800) 827-6364

CompuServe Information Service: (800) 848-8990

GEnie: (800) 638-9636

The ImagiNation Network: (800) IMAGIN-1

Multi-Player Games Network: (800) GET-GAME

National Videotex (NVtel): (800) 336-9096

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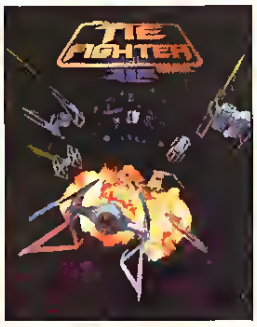
There are those who are Titans and those who are not



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$49	1942 Pacific Air War	$36	Kingmaker
41	Aces of the Deep	39	Master of Orion
49	Across the Rhine (June)	46	Mechwarrior 2
44	AD&D Genie's Curse	37	Merchant Prince
49	AD&D Ravenloft	49	Myst CD
40	Arena: The Elder Scrolls	40	Outpost CD
42	Armored Fist (June)	51	Pacific Strike
46	Battlecruiser 3000	35	Perfect General 2 (June)
49	Bioforge (June)	42	Sim City 2000
36	Breach 3	42	SSN-21 Seawolf
40	Carriers at War 2	36	Star Reach
36	Dark Legions	49	Star Trek: Next Generation
40	DeltaV	48	Strike Commander CD
51	F14 Fleet Defender	49	System Shock (June)
36	Genghis Khan 2	46	Tie Fighter
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CAMPAIGN WISHES AND CARRIER DREAMS

SSG Sticks To Their Warplan In *Carriers At War II*

by Terry Lee Coleman

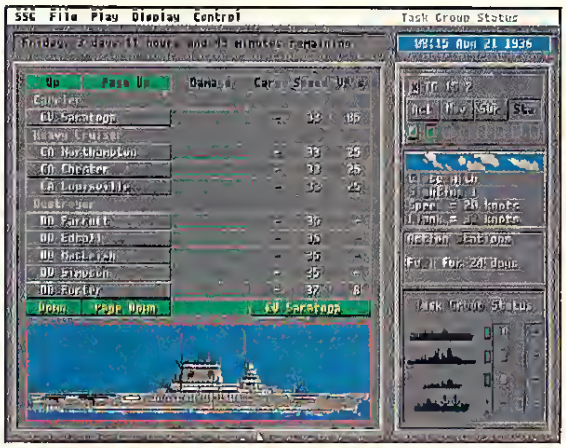
Dawn breaks over the South Pacific, the sun's early morning majesty dispelling the last of yesterday's storm clouds. I give orders to launch our search planes to the East. The old Waltus "flying boats" look tired, as if they, too, must stretch and yawn before going out on their deadly mission. I decline to place 500-pound bombs on the ancient war-horses, in the hope that they can find out enemies and return unseen. Their armament of three Vickers "K" guns will do them little good should they be discovered by patrolling Zetos.

Hours later, I receive reports of what appears to be a large carrier force off the tip of Ceylon. Could it be that my enemy is so unpredictable that he avoids not only me, but out land-based air as well? A Japanese fleet loose in the Indian Ocean would not only wreak havoc with our merchant ships, it could even break out towards Africa. I cannot hesitate. My limited resources do not allow me to split my forces. Trusting that the land-based air can engage the other Japanese ships in the area, I pursue the main enemy force at flank speed. God save the Queen! And hopefully, save my brave lads as well...

More Than Just A New Paint Job

When *Carriers At War* was first released on 8-bit machines, it had the distinction of being one of the first computer wargames to approach the complexity of board wargame simulations while still remaining playable and fun. The revamping of *CAW* for the IBM 386 machine was a milestone in computer wargame history. *CAW II* continues the tradition of fine wargames from SSG, with many improvements, both obvious and subtle.

Detractors of the *CAW* system look askance at the detailed graphics and interface, one critic even calling *CAW* a "wargame for the MTV set." *CAW* has been criticized for its lack of a campaign game, in that, since there is no need to save resources for an upcoming battle, this supposedly leads to each scenario being played as an all-or-nothing affair. While this viewpoint has some validity, it lacks a basic understanding of the design philosophy underlying the game.



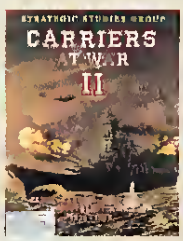
Roger Keating and Ian Trout have been designing computer wargames for about a decade now, and have a good understanding of where to focus in successful game design. Unlike Gary Grigby's *Pacific War*, *CAW II* is not grand strategic in scope. To introduce a campaign scenario into what is essentially an operational game risks distorting the solid historical underpinnings of the *CAW* design. *CAW II* is no more suitable for a broad view of WWII in the Pacific than a simulation of Antietam would be if it were expanded to cover the entire American Civil War.

CAW II builds on the strengths of its predecessor by first offering an even more detailed graphic look. The animation is not the same as would be encountered in a flight simulator, but they still give a needed suspension of disbelief. The ship drawings are much more varied and detailed than in *CAW*, with better shading and less pixelation, particularly on the planes. The only way that the graphic look could now be significantly improved would be if the clouds could look less like refugees from a hexagon mapboard.

Of course, if graphic improvements were the only advantages to *CAW II*, there would be little reason to purchase the game. Keating and Trout have managed to pull off a bit of a coup, however, in that they have improved what was already one of the best AIs in all of gaming. The *Warplan* idea is to basically shuffle "cards" of possible task force deployments and objectives, while staying within the realm of historical plausibilities. Thus, when playing the Leyte Gulf scenario, the computer controlled Japanese fleet may not always come conveniently sailing into the carefully laid Allied trap.

While the basic idea of *Warplan* is the same as in *CAW*, the AI has been enhanced both strategically and tactically. When the AI finds a task force, it is very efficient in sending out strike forces to sink your hapless ships. What I find most impressive, though, is that the AI does a much better job of hiding than in the first *CAW*. Also, the defense of the AI is much more sound, especially in the amount of planes it places on CAP. The US carriers are very tough to sink when commanded by the AI. This is a tribute not only to the improved AI, but is also a good simulation of the his-

Carriers At War



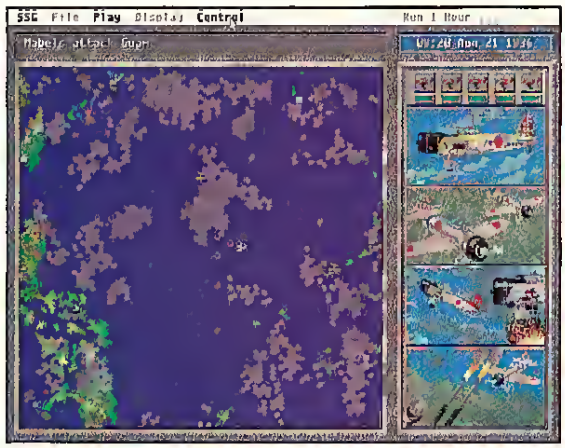
PRICE:	$59.95
SYSTEM REQUIREMENTS:	IBM 386SX or better, 2MB extended RAM, 7MB hard drive space, VGA graphics, mouse, supports most major sound cards
DESIGNERS:	Roger Keating, Ian Trout
PUBLISHER:	Strategic Studies Group (U.S.) Pensacola, FL (904) 469-8880

torical effectiveness of US damage control.

The AI now seems to plan more effectively from a strategic standpoint. This is important in terms of game design, because traditionally the Achilles' heel of AI has been an inability to carry out an overall plan. I will leave it to those more philosophically inclined to discuss the semantics of whether the AI *really* plans, or simply follows deviously random instructions. For the gamer, the important thing is that the AI simulates a reasonably good opponent in ways that most wargames only dream about.

Stealth Fighters WWII-Style

In a WWII carrier simulation, surprise is everything. The ability to find and sink the enemy before he finds you is the heart of success in *CAW II*. Searches are simple to implement, but the game requires that you allocate resources properly and that you understand the limitations of your forces. In *CAW II*, the data offered is not merely a bunch of numbers. The different ship and plane types have a variety of characteristics for you to use or misuse. Unlike many games, it is easy to believe that you are flying a Hurricane, since it has different strengths and weaknesses than, say, a Hellcat. Nor does the data seem to have been fudged to fit the scenarios, as the performance (or lack of same) of your forces flow effortlessly from the soundness of the design.

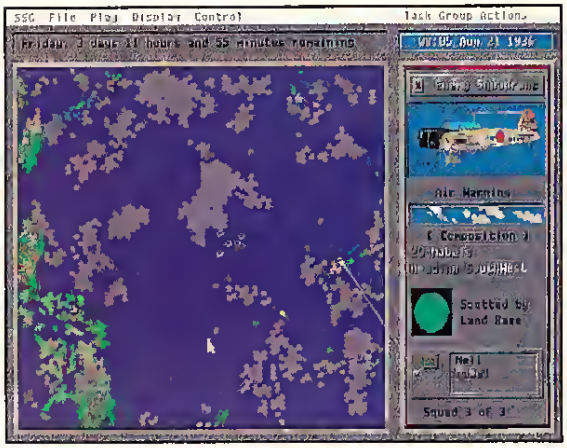


And what a tremendous amount of data is available! Of the 184 pages found in the game manual, 75 are devoted to ship and aircraft statistics. If you ever wondered why the British Commonwealth submarine class *Grampus* failed to sink many ships, you will soon realize from the information provided that it was aptly named. Ironically, one of the nicest things about *CAW II* is that gamers may enjoy the game without ever looking at the database, due to the user-friendly interface.

Don't Worry, It's Just A Tutorial

Despite the elegance of the interface, the design team takes no chances with player confusion. Whereas the tutorial in *CAW*, Pearl Harbor, was quite simple and effective in teaching the system, it was an obvious bust as a game. Here, the exotic Trincomalee provides the setting for a greater challenge, and it can be enjoyed long after the basics of *CAW II* are second nature.

For the *CAW* veteran, the real delight of Trincomalee is that the British are finally given their due. Even in the rich histoty of board wargaming, the Pacific has seemed largely a US-versus-Japanese affait. Gamers familiar with the British only from their sttuggles in the Atlantic will find them in a less than dominant role in this theater of war. Here, you may suffer through the loss of the Prince of Wales, or lead Her Majesty's naval forces to victory off the coast of India. From a gameplay standpoint, the British forces in general are not quite up to US/Japanese standards. Still, the possibility of having Spitfires in the Pacific is well worth suffering through the lesser models. The Dutch are also included, but lack the firepower and the charm of the British navy. For the player who prefers the Japanese, this gives two more opponents with widely different ship types and objectives than the traditional American opponent. It is safe to say that winning with the British versus a human opponent playing the Japanese, gives more than the usual bragging rights.



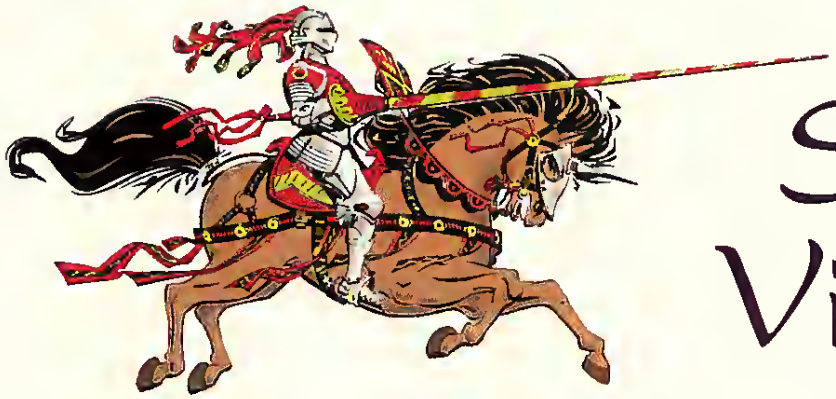
While the British are featured in half of the game's scenarios, they are not the only new delicacy for *CAWII* players. For those who simply must play the U.S., Leyte Gulf has enough action for hours and hours of carnage. For the player who loves a challenge, Leyte offers a chance to avoid the destruction of most of the Japanese navy. Okinawa would be nothing special, were it not for the inclusion of *kamikazes*. Especially as played by the computer, these weapons are every bit as deadly and demoralizing as they were historically.

Where Keating and Trout stretch their creativity, though, is in the two "what-if" scenarios included. Operation Olympic is a very sober look at what might have happened if the U.S. had decided to forego dropping The Bomb. In preparing the Japanese mainland for invasion, this scenario plays much like Okinawa, but with 10 times the ferocity. The designers should be commended for exploring such a potentially controversial route, while still staying on solid historical ground.

The biggest departure from the norm, however, comes in the Plan Orange scenario. This postulates that tensions between Japan and the Allies caused war to break out years earlier. As a result, carrier forces are much less effective. Biplanes are the standard, and CAP is weak, with the ranges of aircraft cut back severely from the *CAW II* norm. Radar is only dimly understood, so the cat-and-mouse style of carrier warfare gives way to the battleships, which are for a last brief moment the dominant force of the naval battlefield. For those *CAW* players who never seem to get enough surface combat, they will have plenty of chances to slug toe-to-toe in this battle.

CAW II is not merely an excellent game, it is a shining example of why SSG is a leader in the computer wargaming genre. The amount of care shows clearly in the professionalism of the final product, which is remarkably free of bugs and crashes, almost unheard of these days. The ability to upgrade both the graphics and AI of several scenarios in the original *CAW* to *CAW II* standards shows the commitment to support that the design team has for its products. (Although when upgrading, you will lose your save games. This is fairly common throughout the industry, and a small price to pay considering the quality of the enhancements.)

By sticking to their guns both figuratively and literally, Keating and Trout have produced a game which will satisfy both newcomers and veterans of the *CAW* system. I would even venture that this is one of the few games that goes beyond even the best boardgames on the subject, so appropriate and challenging is the system. Certainly it's less difficult to get one person to play *CAW II*, than to try and round up half a dozen for a decent game of *Flattop*. Trincomalee, anyone? CGW



Saxon Violence

Medieval Warfare In *Kingdoms of Germany* and *Vikings II*

by M. Evan Brooks

Medieval warfare does not provide the grand scope of warfare seen in later epochs. Horses weighed down by armor-clad knights would have had a tough time performing elegant flanking maneuvers, and siege warfare was, most of the time, about as glamorous as a slug race down the banks of the Rhine. Medieval battles tended to be smash 'em, bash 'em affairs where endurance counted for more than tactics. Wars were still, in the anachronistic wisdom of Napoleon, won on an army's stomach, but less emphasis was spent on orchestrating elaborate maneuvers than on eventually arriving in one fiefdom or another.

Kingdoms of Germany

Vikings, Kingdom Of England was Brian Vodnik's first attempt to capture the bludgeon-style strategy of medieval warfare. Released in Septembet of 1992, the design had a modest amount of success. Now, with the release of *Kingdoms Of Germany (KOG)*, Vodnik invades the continent. Assuming he is victorious in this market, he hopes to conquer the whole of medieval Europe through another release: *Kingdoms Of France/Kingdoms of Russia* (a two-for-one conquest). Knowing also that it is as important to hold territory as to conquer it, he has already spruced up his original design, re-releasing it as *Vikings II*. Here we take a look at Vodnik-style Vikings in both *Kingdoms Of Germany* and *Vikings II*.

Hand-Drawn Hamlets In Hun-Worn Helmets

The graphics are colorful and more than sufficient for a semi-abstract strategic/operational simulation. The strategic map offers an oblique perspective of the territories (a total of 199), while the more usual operational map offers a bird's-eye view of the territories which may be readily scrolled. Interestingly enough, Realism's advertising emphasizes the *hand-drawn* graphics. The territories have no relation to history, and one will look in vain for such areas as Thurn and Taxis, Bavaria, Hannover, etc. Yes, the graphics are adequate, but I fail to see why hand-dtawn graphics are a coup in computer gaming. To be fair, the close-up shots of castles are much more detailed and pleasing to the eye than the strategic map, but to be honest, I much preferred the artwork in *Kingmaker*.

Vodnik's games share similar mechanics. Mouse input serves all major functions of gameplay. Up to six human and/or computer players may contest the fields of Europe. Since victory in a typical game may require seizing from 50 to 125 territories, *Kingdoms* games tend to be somewhat lengthy. Given the sequential nature of game turns, face-to-face play (via hot-seating) will be rather tedious, although it can be done.

Players are initially spread across the map, each in a single territory. All participants begin with a single territory and strive to amass as much territory as possible. Economics merge with conquest in that armies need an economic base, and larger armies require more assets to provide food, arms and manpower.

Natural Insurrection

Initially, most of the provinces are in a "state of nature." Owned by the peasants, they are ripe for conquest and may be seized relatively quickly and painlessly (although an occasional peasant province will cause more losses than expected). However, eventually, *lebensraum* does become exhausted, and the players then begin to assault one another until one player emerges triumphant, having vanquished all of his opponents.

Armies may be composed of up to seven different unit types. Swordsmen seem to be pretty much expendable. Archers and cross-

Kingdoms Of Germany and Vikings II

PRICE	$59.95
SYSTEM	IBM
REQUIREMENTS:	VGA graphics, 2MB hard drive space, mouse, supports Sound Blaster sound cards
PLAYERS	1 - 6
DESIGNER	Brian Vodnik
PUBLISHER	Realism Entertainment Bensenville, IL (708) 595-7487

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bowmen provide missile fire, with the latter possessing more accuracy, but a lower rate of fire. Pikemen are useful for defensive situations, while foot knights form an elite infantry. More traditional are the mounted knights (cavalry) and champions, which comprise elite cavalry *a la* Sir Lancelot or El Cid. As may be surmised, knights and champions do better in open terrain than forest or mountains.

Field armies may be raised assuming one has the economic surplus to afford such "luxuries." Each new army costs 30 gold, one iron unit and 11 men. Upon raising its standard, the army has ten swordsmen and a champion. Before sending it into the fray, you would be well-advised to train your force and add more troops.

Of course, you are not alone in seeking hegemony. Therefore, you will be forced to adopt a defensive posture in certain areas. Here, castles are the near-ultimate deterrent. Castles can become horrendously costly, as they grow from a tower outpost to a keep, a small castle, and finally a large castle. You may often maintain a less than optimal balance simply because of economic costs—but such is the life of a liege lord.

Each turn consists of 15 days, but marching into enemy territory is more time-consuming than merely traversing friendly terrain. Forced marching accelerates one's pace, but at a countervailing cost in fatigue. The field armies cannot be used as *Achtung—Panzers Vorwarts,* but should be used with a goal in mind. Exploiting success must be weighed with the costs of leaving the army ripe for counterattack.

Finally, you must pay attention to economics. Manpower for troops will only be available if sufficient food is available. This requires arable fields, and additional assets must be spent for clearing away land. Similarly, resource exploration (or mining) will generally prove a profitable enterprise—assuming that you have the leisure and security to enjoy its fruits. Such exploration has an economic cost and may not be successful until the fourth search. However, once ore is found, the territory offers it in abundance. While the particular ore might run out, a new search will reveal a different ore among gold, silver and iron.

Where In The Game Is Barbarian Sandiego?

The game design and interface approach for both *Kings Of Germany* and *Vikings II* are similar. Differences in geography, however, engender a marked difference in tactics. The territories in Germany are relatively land-locked. Thus, while the north is susceptible to sea invasion, the vast bulk of the map offers one land-locked mass after another. Therefore, a human player would be well-advised to choose a beginning territory away from the sea. Seek to expand into territories which are at the "world's edge." Such conquests offer a secure linchpin upon which to expand your conquests.

Kingdoms of Germany

Naturally, the English territories are surrounded by water, which offers both opportunity and lack thereof. Seaborne forces may be considered the airborne of the medieval army. Striking far into the enemy rear, they can rapidly cut a fatal breach in his defenses; obviously, the converse is also true. So, until you feel comfortable in dealing with such sudden invasions, it is better to seek a secure homeland surrounded by defensible terrain, away from water boundaries.

Vikings II

Thus, *KOG* offers a better scenario in which new users can learn to master the system. At the same time, battles tend to be downright Hobbesian—nasty, brutish and short. After beating up on the peasants (a common medieval preoccupation), the land forces will grind one another into a series of thrust and counter-thrust. Subtlety is not an earmark of the German territories. If *Germany* is a saber, then *England* is a tapier. That is, invasions by sea tend to open up your territories and require a much larger reaction force and defense in depth.

Actually, territorial goals will often be determined economically. Stone and iron, useful for building castles, catapults and elite forces, are only found in hills and mountains. Wood, necessary for castles, catapults, ships and arming troops, is limited to forested terrain. The "middle game" will thus be driven by the need for raw materials in order to fund the war machine.

Catapults are essential for successful siege operations. The *Kingdoms* engine now allows you to build siege engines either instantaneously or delayed, the latter being more realistic. There is a built-in offset with catapults. Manufacturing them near the front allows rapid access to their intended target, but simultaneously, it allows the enemy to offer a rapid riposte and destroy the results of one's labors. The computer AI is a rather unforgiving opponent.

How Doth Yon Viking Sail?

Both *Kingdoms Of Germany* and *Vikings II* are challenging games. Although easy to learn, both are difficult to win consistently. With the randomness of start positions, each playing will offer different lessons and more enjoyment.

And yet, the abstractness of the game is somewhat bothersome. While I loved *RISK!* and *Lords Of Conquest,* these games could be played in a few hours. The *Kingdoms* series requires play times in excess of 10 to 15 hours. While *Sid Meier's Civilization* required such playing times, the race for technological and material superiority offered an incentive to play that made the time commitment worthwhile (much to the consternation of "gaming widows" everywhere).

With future expansions of France and Russia, one may well ask whether the system justifies such titles. *Vikings II* offers the most geographically challenging scenario and the others are simply variations on a similar theme. In effect, the *Kingdoms* series is *Warlords sans* both fantasy and scenario editor.

Overall, I found the series to be entertaining, but ultimately unsatisfying. The economics and battles are grounded in medievalism, but are so ahistorical as to negate any valid historical lessons. If abstract challenges be your game, enjoy! If you are interested in medievalism, try *Hundred Years War* on GEnie instead. CGW

My son and I love this game!!!

Great work!!

Robert Strauss, Burbank

My daughter (11 years old) and I have become "Oxyd" addicts. We cannot wait to begin exploring the many other levels. Thanks for creating such an excellent product. R. S., Germantown

This is, without question, the most impressive game I have ever seen. I am amazed at the audio, visual and action. George L. Tanty, Arlington Heights

Outstanding program!!!! John Bernauer, Los Gatos

Wow! That's all I can say about Oxyd. What an incredible game! Hurry! I can't wait to play!!

This game is highly addictive. Stuart Ritchie, Canada

One of the nicest games I have seen in a long time.

Thanks for creating such a challenging piece of software. Steve Brannan, Canada

I'm completely hooked! Patricia B. Smith, NH

The game is a blast! Excellent graphics, extremely well done. Interesting challenges in each landscape also. I look forward to the next 90 landscapes. David Mangani, CT

The game is really slick, well designed. Those first 10 levels alone were worth paying for!

One of the most elegant games I've played. Thanks a lot for a great game. Jeffrey Jondahl, San Diego

OK so we got hooked!

I enjoy this game a great deal and so do my children and their friends. It is just what I have been looking for !!
Jerome Wescott, Minneapolis

My whole family enjoyed your game a great deal.
Michael C. Moore, Columbia

Oxyd has to be the most artistically superb piece of programming that I have seen. From my position of having completed about one third of the single-player levels, the landscapes have been continuously varied with a marvelous attention to graphic and audible detail that makes each new one a continuing delight. I especially appreciate how the marble interacts in seemingly realistic but different ways when rolling over or bouncing against different "natural" (or unnatural) substances like stone, wood, swamp, freefall etc. At this point, I'm already worrying that I'll run out of levels (assuming I keep solving the puzzles). Jeffrey R. Horrow

Even our 3yr old enjoys the game.

I just had to write to tell you how much fun I've had playing Oxyd. The attention to detail - the sounds, the textures of the surfaces - really adds to the fun of the game. It invites the imagination for a ride.

Thanks also for making all of the landscapes challenging but not impossible. At first I thought that landscape 76 was unfairly difficult, but when I found the way through it, I really admired the ingenuity. Tom Phoenix, Portland

It is rare to find such a visually appealing, addictive and playable game. Kathryn Wilson, Australia

I'm really impressed with your game, Oxyd. Congratulations on a unique and fun product, and best luck to you all. John M. Dodd, Thousand Oaks

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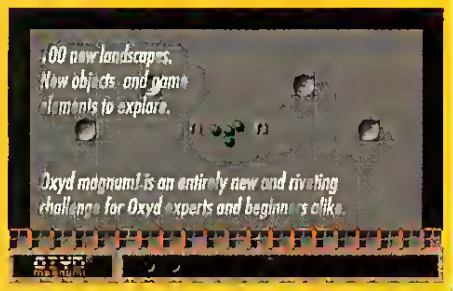

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Dunkin' Donitz

Making a Splash with Deadly Games' *U-boat*

by Alan "Alarm!" Emrich

Putting history in the movies has always been a hit-or-miss proposition. For every winnet like *The Last Emperor* or *Shindler's List,* there are a dirty dozen turkeys like *The Decline and Fall of the Roman Empire* or *Attila The Hun* (with John Wayne in the title role!). One movie that left a particularly powerful impression on me was *Das Boot.* The film follows a German U-boat and its crew as the tide of battle turns against the Axis during World War II. So well-crafted is this movie that nervous claustrophobics will almost certainly have nightmares after seeing it.

Das Boot begins with a message stating that, of the 40,000 German men who put to sea in U-boats during World War II, 30,000 never came back—a sobering statistic. After visiting a captured U-boat at Chicago's Museum of Science and Industry last summer, I found myself moved while examining its cramped quarters. What a squalid existence these sailors must have lead for weeks upon weeks at a time. U-boat duty consisted of almost endless hours of pure boredom punctuated by minutes of sheer terror. Deadly Game's *U-boat* manages to really capture that feeling very well.

Submarine School 101: Reflexes Not Required

You assume the tole of an *Unterseeboot* (U-boat) Captain commanding a Type VII-C, 770 ton Atlantic U-boat, commissioned in May of 1940. These are the "happy times" for you and the rest of the *Ubootwaffe* (U-boat fleet). Although you and the 43 others in your crew are inexperienced, the Allies have not yet adopted ptoven methods for countering the U-boat threat. Moving ships in protective groups of convoys, and committing more of the Allied air resources for anti-submarine warfare ate far off in the future. Much of what you will initially encounter will be individual ships at sea (in the words of submariners, "thete are only two kinds of ships—submatines and targets"), but the supply of easy prey won't last long.

Commanding your U-boat is as easy as clicking the mouse, reading the very realistic looking and functional gauges, and listening to the even more realistic and essential sounds. In fact, the game is designed to center around its audio, from which you will receive the majority of your feedback. The digitized crew members reporting in, the opening and closing of hatches, the cacophony of diesel engines running at flank speed and, particularly, the sounds of flooding the dive tanks add a convincing "you are there" feel to the game. If the phrase "playing it by ear" could be taken more literally, I don't know how.

There is not a lot of colot in this game, and deliberately so. In the designer's words, "Having spent many months sailing the waters of the North Atlantic, let me assure you there are very few days when the sea is not a leaden gray, the sky a milk-white haze." So things seem through the periscope and binoculars that you spend much of the game peeting through.

Most of the remainder of your time is spent monitoting ttans-oceanic progress on a black & white map, giving an appropriate classic movie feel to the whole game. While it is possible to maneuver around inside the ship to its various sections, doing so is pointless. There is nothing to control in most of these areas, unlike in say, *Silent Service.* The action takes place primarily on the bridge ot the *Kommandoturm* (i.e., the conning tower), for those seeking a breath of fresh ait. The othet stations ate mostly wallpaper.

Consequently, it's a good thing *U-boat* has such an engrossing overall look and sound to it. Though the time compresses while making those long, boring trips (slowly, as the best speed this ship can make is a crummy 16 knots), players will appreciate the tedium their historical counterparts suffered. Fortunately, the odd radio message or random sighting punctuate the monotony before it becomes too grinding, adding an element of anxiery while closing with a ship spotted on the horizon. For any who tend to let their attention drift, there are ample sound cues to bring them back to the game, and time instant-

U-boat

PRICE:	$59.95
SYSTEM REQUIREMENTS:	Macintosh LCIII or better recommended, 4MB RAM, 640x480 color or gray-scale monitor
PROTECTION:	None
DESIGNERS:	Rene Vidmer with Robert Madison
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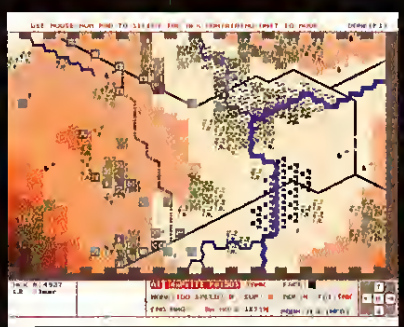

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ly telescopes down when closing for an encounter.

Closing In For The Kill

The skill that you must develop is shadowing enemy vessels, waiting for night, and setting them up for the kill. Here you must learn by feel the range of your torpedoes. Eventually, you will figure out how to set up good attack angles, and in emergencies, how to get out of trouble. A great help is the *U-boot Fahrer Handbuch,* sporting a "Groner, 1938" publishing date. Although this brief maoual consists primarily of patrol maps and ship silhouettes, it does include some tactical advice and a wonderful glossary. Evens so, much of the game must be learned through trial and error.

Generally, U-boats should approach a target while sighting it via periscope or binoculars. The trick is to observe targets when they can't see you, which can be accomplished since U-boats have very small silhouettes. Should you close successfully to within firing range (whatever that might be) without being spotted or "pinged" by enemy ASDIC (sonar), your target will be lined up and waiting for you to calculate the torpedo shot. Switching to the rudimentary attack computer that the Germans employed in 1939, you must input the ship's size and its height at the waterline into the viewfinder. You only need to hit a couple of buttons for the necessary calculation, after which you simply select which tubes to flood (four bow and one astern), and give the order to fire.

Alarm!

My problem was knowing "when to fold 'em." I quickly learned, for instance, it was not a very bright idea to stalk a destroyer. Once they know you're out there, you will find yourself in some deep saltwater (if you're lucky) very quickly. Other dangerous opponents include patrol boats, cruisers, battleships and aircraft carriers. More likely encounters are with the four different types of merchant ships, which is good, because they don't shoot back. Diving and conducting those slow, battery-draining maneuvers can be quite nerve-wracking. Great sound effects amplify the experience, rattling through headphones provided with the game, as you wrestle with your inability to shoot back from below the 20' mark.

Players won't have to fight the game's smooth-as-glass interface, though. In fact, because of the low skill level required to fully embrace *U-boat,* some will see it simply as a nice, light simulator. Although the systems are simple, a realistic feel has not been completely sacrificed on the altar of playability. I thoroughly enjoyed this fine, easy going simulation. Of course, I had to watch *Das Boot* again, but that's just *U-boat* getting me back into "submarine mode." For a game that you can pick up and start playing with nary a look at the documentation, this submarine simulation can still maintain a respectable depth. CGW

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Illustration by John Clarke

Now The Shoe's On The Other Pseudopod

A Strategy Guide for Tim Wisseman's *VGA Planets*, Part 2

by Ted Foster

In our last installment, we took a broad view of Tim Wisseman's multi-player strategic slugfest, *VGA Planets*. This month, we'll get into specifics with each of the various star-faring races that you can play. Whether you prefer the cold-blooded Lizards, the mechanistic Cyborgs, or even the Evil Empire, every race has unique strengths and weaknesses, and each requires a very different style of play. It is this diversity that keeps *VGA Planets* interesting and challenging over many games.

The Solar Federation: The Federation's Nocturne-class destroyers, Nebula-class cruisers, and Missouri-class battleships can be used as pseudo-freighters, giving you lots of transporting capabilities with well-armed ships. The early use of these classes of vessels will give you an edge when you reach the Phony War (see last month's article for an explanation of the "Phony War" phase).

The Nova-class Dreadnought is one of the best battleships in the game with 10 beams and 10 torpedo tubes. However, be aware of its limitations, since even if fully armed with tech-10 weapons, a single Nova will be destroyed by a large fighter-carrier. The Nova will cause some damage, but it will lose nonetheless, so send these ships out in packs whenever possible.

Use your excellent medium-sized ships to give an opponent grief during the Phony War. Since all of your ships carry torpedoes, use them frequently to lay mines to keep other ships out—especially those that are cloaked.

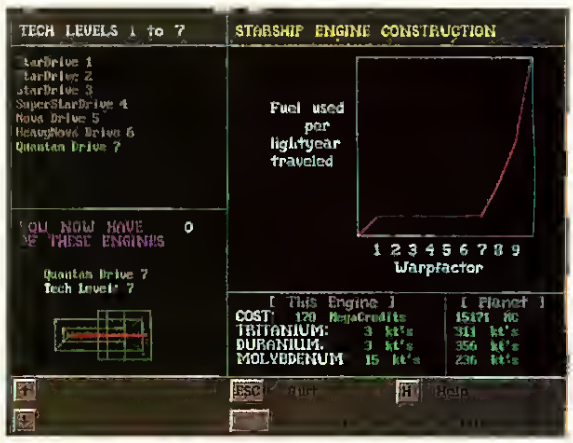
The Lizards: This race has a good array of medium sized vessels, with my favorite being the Lizard-class cruiser. Be careful when using the Serpent, Reptile, and Vendetta-class ships, as they are easy to capture when their shields are knocked down.

The Madonzilla carrier can end up being too large to be used as a light carrier and too small to compete with the other large carriers in the game. Fighters are very expensive for this race as well, so use this ship with caution. The T-Rex battleship, however, is one of the best battlewagons for its size available. Few enemy battleships can get it to 150% damage before succumbing themselves.

The improved ground combat of the Lizard race is very valuable as it allows them to take worlds without necessarily having to fight for them. Because the attack ratio is usually set to 20:1 or better, this means that a mere 501 lizard clans (50,100 colonists) can conquer an enemy world of 1,000,000 colonists. Since most starbase worlds are about that size, Lizard troops are exceptional for taking worlds with starbases intact, inheriting whatever tech levels and defenses already established by your foe.

The Empire of the Birds: Nearly all of the Feathered One's ships have large crew complements, making them very hard to capture. Additionally, almost all of them can cloak, creating some difficult defensive problems for your opponents. Two of the best vessels are the Fearless Wing cruiser, with its ample cargo space, and the Deth Specula-class frigate with its tremendous firepower.

Similar to the Lizards, the two carriers that the Bird Men can build are generally not worth the cost. The Dark Wing-class battleship, on the other hand, is a fine capital ship, the only Dreadnought in the game that can cloak. Imagine an enemy commander who looks at his own worlds and never really knows if a cloaked Dark Wing is there waiting to strike. The only drawback of this deadly ship is its relatively small fuel load, which limits its range.



When the fighting starts, use your ships to choke off enemy supplies and to lie in wait until the perfect time to take a ship or colony. Use your battleships in wolf packs to invisibly penetrate enemy lines and deliver heavy strikes to starbases. Be wary if the cloaking fail rate is set to a high percentage (20% or higher) as you run the risk of detection when crossing large distances.

The Fascists: Utterly evil, these beings seem

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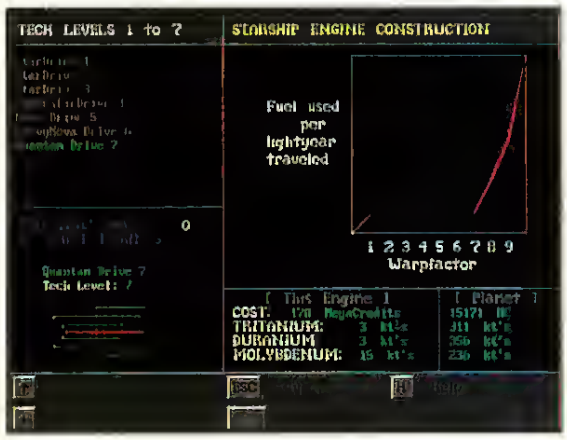
to exist only to cause pain and suffeting to neighboting empites. The aptly named D7a Painmaker and Little Pest scout are ideal raiders, while the cloaking D7 Coldpain and Deth Specula frigates can make mincemeat of other medium watships. A masterpiece is the Ill Wind battlecruiser, which manages to cram 10 beams and two totpedoes onto a tech level 5 hull, making it one of the most potent cruisers in the game. The Victorius-class battleship is an average Dreadnought which should be used with caution, especially if fighting alone.

Especially in a mineral-poor game—PLUNDER! It's a quick and easy way to turn natives (ot colonists if you can affotd it!) into supplies and cash. Be careful—it is all too easy to over-plunder a world into ineffectiveness. Use your fine raidets to gteatly upset yout enemy's backfield, preventing him from re-stocking the warships at the front lines. If you keep the war in his interiot, victory shall be yours. Kup'Lah!

The Privateer Bands: The Privateets don't win the game by defeating you with their fleet. Instead, they defeat you with your own fleet. Of the many ship types they can build, the Meteor blockade-runner is the top pet-former. I recommend you build them in groups of five or more, so that they make mote efficient pickpockets. Yout larger cruisets and carriers are genetally too small for extended combat, so build them only as a last resort.



Have BR4 and BR5 ships cloak neat enemy lines and wait for a freighter to come within 162 light years. They can hit it, wipe the crew, capture the freighter, and be gone before help can atrive. Bewate of the Ptivateet's Achilles' heel—latge minefields and situations where the cloak failute tate is highet than 0%. The Meteots are ideally suited for obtaining a fleet for you. Sent out cloaked in wolf-packs, they can rob a latge ship of fuel. Within 1-2 turns the ship will be helpless and ready for towing to the nearest Privateer starbase. These ships are so fast that they can actually tow a cartier or battleship faster than normal ships can pursue, making them deadly foes indeed.

The Cyborgs: The only tace to have both an excellent battleship and carrier, Cyborgs ate the strongest tace in the game offensively. The main limitation for the Cyborgs is their inability to build automatic fighters as othet races can. The Fire Cloud-class ctuiset is one of the better medium ships, and the B222-class destroyer has seven beam weapons, incredible for its small size. Othet ship types such as the B41 Explorer, Quietus cruiser, and Iron Slave base ship, are too small to be very useful, so hold off building them in favor of the larger ships and freighters.

The Cyborgs' two capital ships are both brimming with mass and fitepowet. The Annihilation-class battleship is equal in armament to the Federation's Nova-class with 20% more mass, making it vulnerable only to the latger fighter-carriers. Even more powerful, the Biocide-class cattiet is only a tech 9 hull, so build it ftequently and often!

Use your assimilation ability to quickly establish latge populations and get starbases built. Dedicate several bases to doing nothing but building fighters, something they can do with no tech level incteases. Use the fightets to support the Biocide cartiers, then keep those supply lines open. After that it's time to assimilate, assimilate, assimilate....

The Crystal Confederation: Although suffering from a deplotable lack of good small vessels, this race can still be a formidable opponent. The Ruby-class light cruiser and Sky Garnet-class destroyers have good punch, but like all of their smaller ships are far too easily captured. The Emerald-class battlecruiser fares bettet with its eight guns and an incredible 510 unit cargo hold, making it your premiet medium ship and incidentally, one of the best mine-layers in the game.

The two capital ships are similar to the Lizards' in size. The Crystal Thunder carrier is the weakest large carrier in the game, tequiring judicious use for good results. The Diamond-class battleship is a good ship in terms of power and defensive stength, but should still be used in groups to maximize its wotth.

Your entire economy should be set up to produce as many web mines as possible. Employ yout Emeralds to unload large minefields in both yout space and yout enemies. Then tow the enemy's vessels home when they ate trapped and drained of fuel. Use this technique to simply take away any fleet trying to invade and to make it yout own.

Your Onyx-class frigates are best used to make ordinary planets into the broiling lava balls that you like best, so use them often. It becomes another tool to detet aggression—who wants to capture worlds that are the worst to colonize?

The Evil Empire: Our other ultimate villain has been blessed with an array of fait cruiser-size ships and an awesome knock-out punch. The PL21-class ptobes are hyperspace-capable to cover a lot of ground in a hurry, though they have little cargo space. The Super Star carriets and cruisers are weak in combat but make excellent fighter supply ships.

The Star Frigate is your only ship with totpedoes, so it should be used wisely as a mine-layer. The Super Star destroyer and Moscow-class escort are too small to be much use in combat, but can be an effective deterrent when fighting the Privateer or other group with many small ships. The Empire's crowning achievement is the Death Star look-alike, the Gorbie-class catrier. It is unquestionably the strongest individual ship in the game.

Build as many starbases as you can to take advantage of your "free" fighters which are made there. Keep good supply lines of fighters and fuel to your Gorbies using the Super Star cattiers. Use your Dark Sense ability to gain optimum intelligence on yout opponent, and then loose your "Ping-pong balls from Hell" into his most vital systems.

The Robots: These mechanical types tely almost solely on fighter-carriers for their fleet. What an irony, then, that their only torpedo-capable ship, the Cat's Paw-class destroyer, is one of the best small ships in the game. Heavily gunned and impossible to capture, it

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augments these abilities with a large cargo capacity.

Of the Robots' many base ships, the Iron Slave-, Pawn-, and Cybetnaut-class ships are too small to be wotthwhile. However, the Instrumentality, Automa, and Golem classes are exceptional ships, each capable of launching large waves of fighters which will devastate even a battleship. The larger Golem carriet needs only fear packs of enemy capital ships.

Use your excellent Cat's Paw ships to colonize and pattol your petimeter. They make great mine-layers as well, so use them to take full advantage of the Robots mine-laying bonus. Try some of your base ships as "fighter factories" to produce the many small craft you will need to make your carriers effective. Q-Tankers may be employed in similar fashion.

The Rebels: The Rebels suffer ftom a lack of good medium ship designs.

The Taurus and Deep Space scouts make excellent armed metchantmen, but are prone to captute by watships. The Falcon-class escort is one of the few ships capable of hyperspace travel, and should be used to settle distant tegions quickly. The Cygnus-class destroyer has good guns but cannot absorb much damage.

Of the medium-sized ships, the Ttanquillity-class cruiser is the best, but has much less armament than similatly-sized cruisers of other races. The Sage, Guardian, and Iron Lady-class frigates have good armament, but once their shields are down, those hulls belong to the enemy.

The Sagittarius and Gemini ttansports make wonderful fighter factories. Simply park them over a world and keep them supplied with minerals and supplies, and they will cheaply keep your fighter wings stocked. The Rush-class ship is a great carrier in this game. Though equipped with only five beam weapons, it mote than makes up for this fault with its latge mass and 10 fighter bays.

Use armored ttanspotts like yout Deep Space scout to expand and to defend your early bordets. Tty to quickly build up to the Rush ships to make up for your lack of good secondary ships. Use Tranquillity ships as mine-layers and Gemini fteighters as traveling fighter supply bases to suppott your carriers.

The Lost Colonies Of Man: The Colonies share many designs with the Rebels, including a deficiency in good medium ships. The Little Joe escort has good punch with its six guns, but suffers ftom low mass and is unable to take punishment. Moving up to the light carriet, the Scorpius makes a good fighter manufacturing ship, and is also useful as a minesweeper during invasions. The real carrier is the Virgo-class battlestar, which actually matches up well with opposing carriers. Ten guns give it excellent punch, and its only failings are its lower mass and two fewet fighter tubes than some of the other heavy carriers.

Build fighters on yout ships, particularly the light carriers and Gemini freighters, to manufactute them in large quantities fot yout battlestars and starbases. Make the most of your ability to sweep mines at long range. The Colonial fighter-catriers are the only vessels in *VGA Planets* able to sweep mines fastet than they can travel at warp 9. If a light carrier is available, send it along during invasions to sweep mines, while keeping the battlestars teady for combat.

That wraps up this strategy guide. One sign of quality in a game is how much versatility it gives you to develop your own tactics and strategy tricks, and *VGA Planets* gives you ample toom to add upon what I've suggested here. Now it's time for all you would-be Emperors to find a new game at a local bulletin board near you and start building! **cgw**

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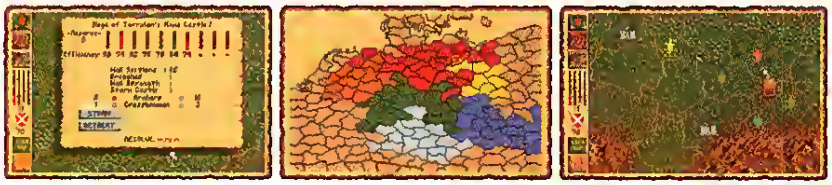

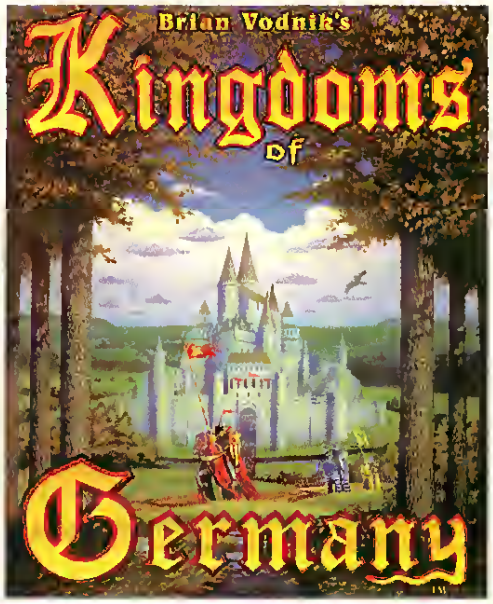

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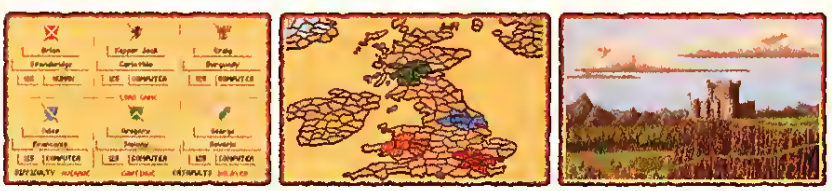

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Winning at SSI's *The Great War*

by Josh Bruce

World War I lasted four years, caused 16,000,000 casualties, saw the collapse of three empires, and planted the seeds for Stalinist Communism and Hitler's Nazism. Now, you can join in on the fun.

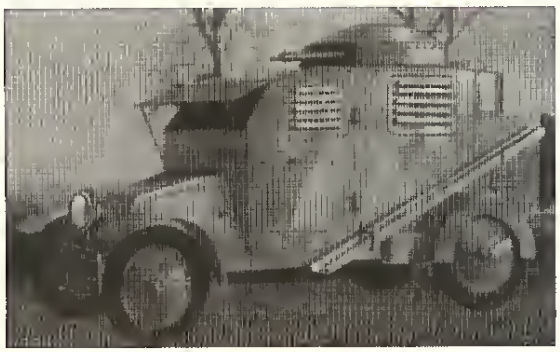
SSI's *The Great War* recreates World War I in generic fashion. Every scenario that you successfully complete moves the calendar ahead two months, and makes new technology, such as tanks and airplanes, available for your use. Although each scenario is different, there are certain approaches applicable to every situation. What follows are a series of rips I've picked up "living in rhe trenches." These hints should improve your chances for success during your movement from Private to commanding General.

The rrue secrer to victory in *The Great War* is an understanding of three key elemenrs: strategy, ractics and unir experience levels. The Srrategic elements consist of positioning, defending and counter-attacking. During the positioning phase, the two sides will be separated to a degree. Since it will take some time before combat begins in earnest, use this time wisely. Sending forces to capture neutral factories or depots is a good decision early on. Be sure to choose good, defensible terrain such as woods, mountains or rivers between the enemy and your headquarters and factories. Once you've decided where to defend, create a continuous line of troops in this area, placing artillery and anti-aircraft behind the line, with a small cavalry detachment in reserve. Optimally, rhis line will be created a short disrance in front of a building to facilirate repairs. Production should focus on artillery or mobile anti-aircraft, if available. Never charge forward to attack the computer's forces, but let them come to you instead.

If You Build A Line, They Will Come

Appropriately for a WWI simulation, the defense enjoys a big edge. The compurer AI will throw every unir it has ar you, so be ready for the waves of fronral assaulrs. Employ your sappers ro entrench your units, and use the benefits of defensive terrain to improve your chances for survival. Don'r attack enemy units with infantry unless it's a clear cut victory, and be cautious even then. During this period, continue producing artillery and anti-aircraft, with an occasional infantry unit should the need arise. Friendly buildings are crucial to repair any damaged unirs. Whenever a unit is reduced to two or three steps, it should be immediarely withdrawn from rhe line to be repaired and replaced with one from the reserve. Many scenarios have your forces outnumbered by four-to-one, and every unit completely eliminated hurts your chances of winning.

Artillery can do devasraring damage to the enemy during this stage, wirh no danger of loss to itself. Mass the artillery fire against a few units until they are destroyed, and then repeat the technique wirh other units. While you could rheorerically destroy all of the opposing units in this manner, you are better off thinning out the enemy forces for a counter-attack. Pick a target building in a weakened area and throw every unit you have at it. Most enemy units you encounter should be encircled with everything available and attacked immediately. When confronring bunkers, bring up medium or heavy artillery units by truck and place them just outside the range of the bunkers. While it might take a few turns to destroy the bunkers, this effective strategy involves no casualties. Production should be shifted to light artillery, infantry and trucks to give mobility to your forces.



Your brand-new Charron Armored Car comes complete with adjustable windshield, single headlight, and pivoting machine gun, all at no extra charge.

A simple and effective maneuver to use during this stage is to load a truck wirh a light artillery unit and several elite infantry units (such as *Kampfgruppe Hutier*), then send it running at an enemy factory. Concurrently, save build points for several turns, so thar you have 150-250 accumulated by the time the truck reaches the factory. Upon reaching the destination, immediately overwhelm any defenders and send one infantry unir inro the factory. In the following phase, srart mass-producing infantry. Soon,

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instead of one truck on the enemy's flank, you will have a number of combat units with which to tip the balance of power on that front in your favor. Don't try this trick if the enemy still has an air force, and remembet to steer clear of any artillery. While propet tactics in combat are still important, adhering to this sttategy should greatly increase yout chances of victory, regardless of how difficult the scenatio.

Dreadnoughts And Aeroplanes

Though there is a rich arsenal of weapons available to the player, four types deserve special mention on their usage and tactics: aircraft, ships, artillery and armor. Aircraft are very powetful weapons due to their maneuverabiliry. Aircraft are also immune from the attacks of infantry, artillery, tanks, cavalry, and sappers, so special care should be taken to eliminate any enemy aircraft immediately. Begin by using all of your fighter airplanes to attack a single enemy air unit and desttoy it, continuing in this fashion until you have complete control of the sky. Keep your bombers in a safe rear area until the enemy's air force has been destroyed. Once you have control of the skies, use your bombets to attack attillery positions and tanks, as these dangerous units cannot defend against bombing runs.

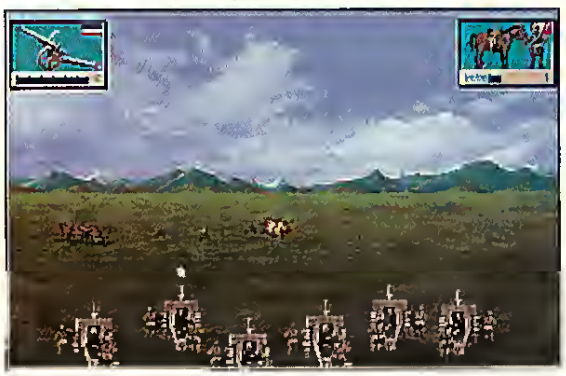
Use the maneuverability of your ait units to continually gain attack bonuses in combat and to retreat to a friendly building for repairs when damaged. Air units are both fragile and expensive. A brand new Handley Page bomber costs 115 build points, but a mere 15 to repair. With production costs of most aircraft bordering on the prohibitive, once destroyed, they ate usually gone for good.

Naval units enjoy similar immunity ftom the attacks of most land units, with the notable exceptions of Chartons and artillery, and also have a devastating tanged attack. At the start of any naval scenario, deploy your naval units in three lines. Torpedo boats, gunboats and submarines form the outer shell, acting as skirmishers. Next in line are destroyers, with any battleships btinging up the reat. By using this thtee-tier approach, combined with the familiar tactic of waiting for the enemy, you utilize each of the units at its most effective range. Any force which attempts to attack you will have to face the concentrated fire of your entire fleet. When firing at naval units, remember to mass the fire against a single ship, and make submarines a prime target. Don't overlook any opportunity to use land artillery or even Charrons (if the situation warrants) against enemy naval units. Ships cannot be built or repaired, making any damage to them permanent.

After the enemy fleet has been swept from the seas, use your ships as mobile artillery platforms against the enemy land forces. Gunboats and torpedo boats can move into coastal hexes making them very effective as extra artillery, and battleships are devastating in this role. Despite the ctitical nature of naval actions, airplanes attacking ships are almost worthless. Rather than pursue this suicidal strategy, use your ships in concert with artillery.

Those Caissons Keep Rolling Along

Artillery units come in five vatieties: light, anti-tank, medium, heavy, and train-mounted guns, each with its own sttengths and weaknesses. Light artillery and anti-tank guns are probably the best units in the game, as they are cheap to produce, have a ranged attack, a good artack strength, and can defend against close assaults. The weakness of these units is that their range is so short that they are easy targets for heaviet attillery.



A squadron commander wishes he hadn't bragged about getting one more medal

Heavy artillery units can dominate the battlefield with their powet and exceptional range, but have a numbet of deficiencies. Lacking mobiliry, they cannot move and fire in the same turn, and are defenseless against close assault. The best way to dispose of these units is to get a ground unit next to them and artack with impunity. The train-mounted guns enjoy the greatest tange of any land unit, combined with the greatest land attack value in the game. They share many of the problems of heavy artillery and are further restricted to rail lines for movement. Train-mounted guns are particulatly effective when used defensively, but movement restrictions render them practically worthless for an offensive opetation. Taking out an enemy train-mounted gun will require that you send several waves of infantry units. You should expect to take losses just closing the range. Once yout forces are adjacent to these behemoths, attack with everything available and pull the remainder of your fotces back out of their range. The best way to deal with any enemy artillery is by using your air force, provided you have air units to spare. Unlike ground units, aitcraft have the speed to get behind the enemy's lines and wreak havoc with his artillery.

To The Green Fields Beyond

Armor units have a good attack strength, an excellent defense sttength, and the abiliry to roll thtough trenches, but ate exttemely slow. Offensively, they ate a natural to spearhead the attack, with other units following in their wake for mop-up purposes. Defending against atmor tequires that you use artillery and air power, as they expose the Achilles' heel of any armot unit—its lack of speed. Light artillery and anti-tank units have the ability to move and fire. They can retreat from atmor while keeping up a devastating fire, and the tank's low movement allowance prevents it from escaping. Even so, the defense value of armor is so high that the most concentrated fitepower often causes less damage than expected.

Experience is in many ways the most important element of the game. Level six units will beat the pants off of level one units every day of the week. So, how do you get your units to become level six? For artillery, it is simply keeping the guns firing at any available target, but for othet units the process is not so simple. In most one-hex range attacks, your units will lose at least one step, but they will also gain at least one level of experience. By the time a unit is reduced to two steps, it will also have apptoximately four levels of experience. The key is withdrawing the unit to be repaited. Not only is the unit retutned to full strength cheaply, it will also retain any accrued expetience. Repairing units is therefore not just cost effective, but mandatory.

Now the time has come to grab your favorite shovel and head off into the trenches to try these tips and tactics out for yourself. Remember to concentrate your fire, keep casualties low, attack the enemy air force every chance you get, and you will soon be developing strategies of your own. By following these guidelines, your men will perform as seasoned *poilu*, and maybe you'll last long enough to see the end of the wat. CGW

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Market-Garden, Modem-Style

MPG-NET Paradrops Wargamers Into Cyberspace

by Richard Savage

On September 17, 1944, Allied forces dropped three divisions of paratroops into a narrow corridor stretching 60 miles in Nazi-occupied Holland. The purpose of the attack, code named Operation Market-Garden, was to seize a series of bridges so the British 30th Corps could advance across the line, link up with the paratroopers, and drive a wedge into Nazi Germany. The Germans met the Allies with scavenged units formed from the remnants of their forces defeated in France and two SS Panzer divisions that were refitting nearby at the time, unknown to the Allies.

Good wargame simulations of Market-Garden have been rare. Most attempts have suffered from complex rules, poor computer intelligence, and unwieldy game systems. The best boardgame version so far has been Game Design Workshop's *Operation Market-Garden*, an award-winning game released in the mid-eighties that attempted to put the "fog of war" into board games. Each player had his own board, identical to that of his opponent, where he kept his own force deployment secret from his counterpart. As units were moved into enemy territory, every space entered had to be announced, with the opponent checking for his own forces in the given space—sort of like *Battleship* for adult wargamers. Although tense and exciting, the game was clumsy, placing a lot of emphasis on each player's honesty and knowledge of the rules.

Of course, a computer makes a perfect "rules lawyer" and umpire in this situation. The folks at the Multi-Player Games Network recognized this, and so married the GDW board game with a computer judge to create an on-line game that could be played by two gamers from any part of the country. Players cannot cheat, even unwittingly, and the program also keeps track of every unit and its supply state. Thus, players are freed from many of the mundane details of board games and have the luxury of a live human opponent rather than a predictable AI. The computer handles the details of masking enemy troop movements, calculating combat resolution, and analyzing the availability of reinforcements, leaving the players time to develop a winning strategy.

Paradrops Into Darkness

Before any movement, the Allied player drops airborne units. Several different hexes may be targeted at the same time, but units which drop in rough terrain, cities or villages generally lose a combat step. Should a unit paradrop on a hidden German unit, combat immediately results, and one of the units will inevitably be destroyed, displaced or forced to retreat. The German player may only see which drop points are occupied by the Allies, not how many units are in each hex.

Next the Allied player picks which 30th Corps units will spearhead his drive across the bridges. Tanks seem an obvious choice, but engineers will be needed to help repair any bridges blown by the Germans. Triggered by Allied units moving alongside, the destruction of bridges isn't automatic, but it seems that all the wrong bridges are blown at the wrong times, at least for the Allied player. Mechanized infantry is desirable, both for its high combat factors and quickness, and the Allied player can't neglect infantry, as the foot-sloggers are needed to dig the Germans out of all the places tanks can't quite reach.

Hide-And-Seek With Armor

After the Allied player sets up his forces, he then decides which travel mode to use, either road or off-road. This is a stinky decision, since he is unable to see enemy units. The only clue he'll have to the enemy's whereabouts is a light-blue tint that appears any time an enemy unit moves through a hex. Pretty soon the whole map seems to be light blue, leaving one to puzzle out where the enemy is. Should one move into a hex containing an enemy unit, a lightning bolt appears and his unit immediately halts its movement. He must then decide whether to reinforce, retreat, or try and surround the enemy.

Road movement is quicker, but has combat liabilities, as units that engage in combat in the road movement phase face doubled firepower from the enemy. Units on roads are further restricted by an inability to stack unless they started the turn together. Off-road movement is

Operation Market-Garden

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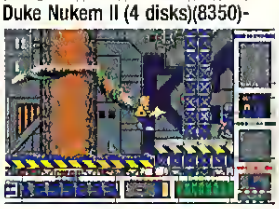

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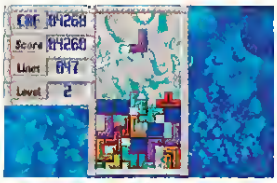

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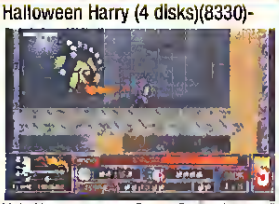

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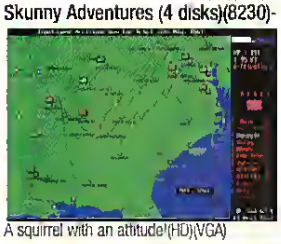

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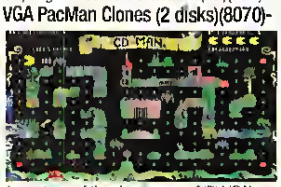

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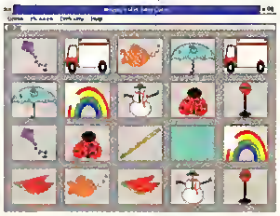

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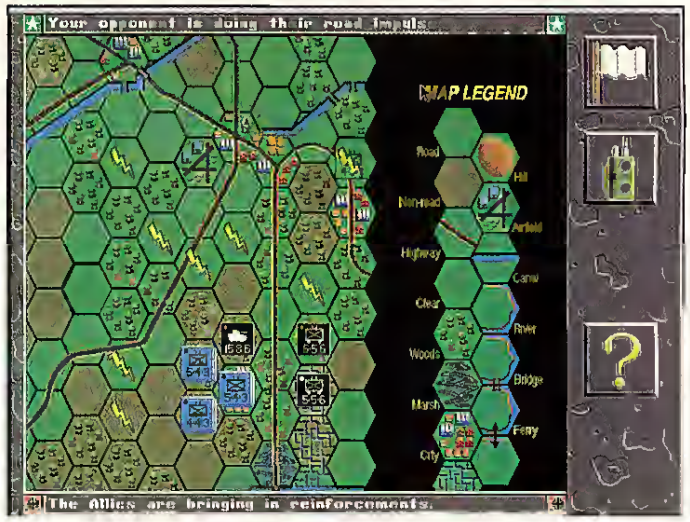
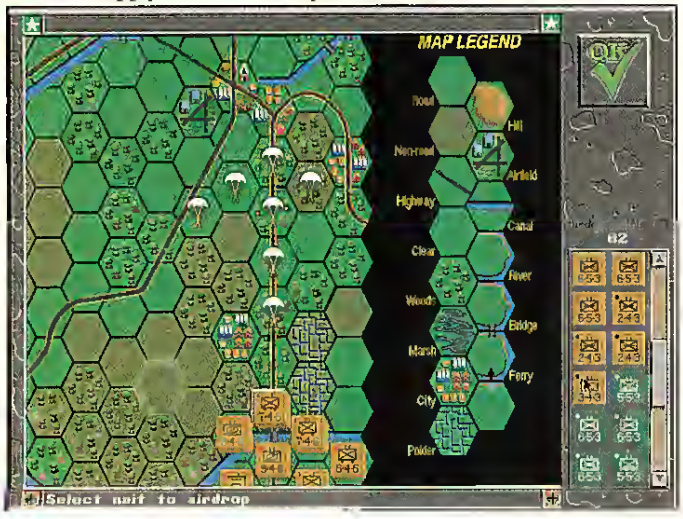
often used in attempts to blow a hole through the enemy's lines, allowing armored vehicles to go roaring down the roads. If the off-road combat phase fails, however, usually a traffic jam develops. This plays out well historically, causing the Allied player to curse his stupidity in not choosing the right mode, or to berate himself for not being careful enough in the stacking of his units. Both sides have to plan ahead, making for a good, tense, and often realistic game.

Terrain and modes affect the combat in *Market-Garden* to a great degree. During a road impulse, all defending units have their firepower doubled. In an off-road impulse, defenders need to have the benefit of good terrain, such as hilltops, bridges or ferries. The units are displayed with regular NATO symbols for mechanized infantry, paratroopers, and engineers, but the tanks get silhouettes and add a bit of pizzazz to combat. All units have their fire strength, defense strength, and movement factors listed, just as any familiar counter from a standard board wargame would. Combat is initiated after each movement phase, presented as an enlarged version of the hexes and units involved. Incidentally, combat is the only occasion in which one can see enemy units. Once terrain effects are calculated, the defender fires first, and he can cut down the attacker's firepower significantly before he has a chance to reply. Targeting enemy units forces one to decide whether to take out the unit in the open field or pounce on the hilltop defender, hoping that there aren't more defenders just out of sight. Effective fire will either reduce enemy units or send them into digital oblivion in a ball of flame!

The Long And Winding Supply Road

Supply is key to success, which is appropriate for a mobile WWII campaign. There are two types of supply, regular and airborne. The Germans have a large degree of latitude, since they may use three board edges as sources of supply. The Allied 30th Corps traces supply via the main road back to Allied lines. Airborne units must trace to their supply depots, which are only dropped if the weather is right. Many times crucial airborne reinforcements will be delayed, so that needed supplies are dropped instead, as the Allied player has a limited number of drops each turn. Units out of supply at the beginning of their turn remain that way for the rest of the day, even if a supply route is later opened to them. Unsupplied units are outlined in red as a reminder, and they are not revealed to one's opponent. This is very significant when the firefights start, since unsupplied units are halved in firepower.





Engineers were vital at Market-Garden, and they are a primary focus of the game. Bridging engineers, while crucial, are used up once they repair a bridge. Airfield engineers may fix any one of the three airfields in the Arnhem area. Once an airfield is repaired, units of the British 52nd division can arrive, and their powerful battalions are a welcome sight to the beleaguered Allied paratroopers. Regular engineers can cross rivers and canals, and are helpful in encircling enemy-held bridges. The Allied player should take great care in guarding his bridge engineers, as there never seem to be enough of them, and with the double-blind system, a couple of panzer battalions attacking a lone engineering unit can be a disaster later in the game.

Victory is determined at the end of the tenth turn. While this doesn't seem like many turns, the double-movement system gives the Allies plenty of time to attempt a breakthrough. The Allied player achieves a strategic victory if an Allied AFV unit exits off the North edge of the map, provided his forces can trace a line of supply through regular ground routes. An Allied Operational victory, while easier to attain, still requires that a line of shaded hexes can be traced from an allied unit north of the Lower Rhine/Ijssel Rivers to a regular Allied ground supply source. For a tactical victory, the Allied player need only break the line of the Lower Rhine/Ijssel River. The German player wins a tactical victory if the Allied player doesn't fulfill any of the above conditions, plus he wins an operational victory if there are no Allied units north of the Maas River. Can you say "Good-bye, 1st Parachute division?"

During my more than 60 hours of play with both sides, I can sincerely say this is a great on-line wargame. With the variable weather, landing zones, and German setup, no two games of *Market-Garden* have ever been alike. Any true wargamer that has a modem owes it to himself to play this game at least once. A warning is in order, though. The game is *very* addictive. After playing a single game, you'll be thinking about how you could have taken that bridge, if only one or two small things had gone differently. **CGW**

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Taking A PEEK

A quick look at titles now appearing on a store shelf near you.

Access Software, Inc.
4910 West Amelia Earhart Dr.
Salt Lake City, UT 84116
(800) 800-4880

LINKS CASTLE PINES GOLF: More than a year since it shattered the existing conventions of computer golf, *Links 386* still seems ahead of the times technologically. Early courses in the series were somewhat easy to play, once you got a handle on the game system. *Castle Pines*, though, is a very difficult course even for the seasoned linkster. The computer version is quite faithful to the Jack Nicklaus-designed course layout, and features the longest hole—some 644 yards—to be found on the PGA tour. Bunkers, menacing trees, water traps and other pitfalls rendered in photo-realistic detail await the computer golf enthusiast. IBM ($24.95). Circle Reader Service # 1.

American Laser Games
4801 Lincoln Rd. NE
Albuquerque, NM 87109
(800) 863-4263

WHO SHOT JOHNNY ROCK?: They call her Red. She was Johnny Rock's girlfriend, his fiancée. That's how we met. It seems that Johnny got in with some bad company, four creeps to be exact. He had the goods on one of them, so they decided to ventilate his carcass. End one singing career. Now it's my job to solve the crime, get past the goons protecting these four "upstanding" citizens, and find out *Who Shot Johnny Rock?*.

American Laser Games follows up *Mad Dog McCree* with another point-n-shoot game, only this time you are cast in the role of a prohibition-era gumshoe trying to solve a crime and stay alive. Sharp wits will help, but a quick draw with a mouse will serve you best. The storyline and acting are decent for this sort of game, but the gameplay is simplistic to the extreme. IBM ($49.95). Circle Reader Service # 2.

Links Castle Pines Golf

Who Shot Johnny Rock?

Expert Bingo

Pinball 2000

Genghis Khan II—Clan Of The Gray Wolf

Expert Software
P.O. Box 144506
Coral Gables, FL 33114-4506
(305) 448-2074

EXPERT BINGO: Now you can shout "Bingo" in the privacy of your own home with this Windows program, an accurate recreation of the "gambling" game for the slower set. You can play several varieties of Bingo for $10 a card (in virtual money, of course), though the program doesn't allow you to input your own home variants. While your home Bingo hall may lack the Sisters of The Sacred Heart, the digitized female voice that calls out the numbers does a passable imitation. IBM Windows ($14.95). Circle Reader Service # 3.

Froggman Software
PO Box 144506
Miami, FL 33114-9776
(305) 567-1363

PINBALL 2000: Froggman's digital steel ball package is actually a budget version of 21st Century's *Pinball Dreams*, offering two of the four pinball tables included in *Pinball Dreams* at half the price. *Rocket*, a descendant of 70s-era pinball machines, is the more challenging of the two included, with a straightforward design that emphasizes bumpers and targets. *Graveyard* is more modern in its design with its two looping ramps. Both tables are seen through smooth-scrolling views, and offer the obligatory TILT function. In all, *Pinball 2000* is an average title at a better than average price. IBM ($14.95). Circle Reader Service # 4.

Koei Corporation
1350 Bayshore Highway, # 540
Burlingame, CA 94010
(415) 348-0500

GENGHIS KHAN II—CLAN OF THE GRAY WOLF: This game is more than just *Genghis Khan* with a face-lift; it sports a much stronger AI, with some of your enemies hostile, some intellectual. Instead of the four leaders of the first version, you may now select from 15, all with role-playing-like attributes. Advisors are quite eclectic: you may debate with Thomas Aquinas, drink tea with Marco Polo, or share mutton with Robin Hood. Novice Khans may vent their conquering spleen on Mongolia in the basic scenario, but the true challenge for the veteran wargamer is the World Conquest scenarios, wherein you try to unite all of Eurasia under your benevolent rule. Retaining the combative core of its previous edition, this version now offers 16 different unit types. Samurai are as tough as

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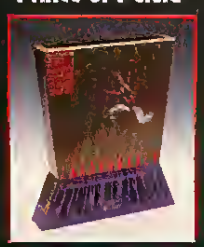

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they were historically, Knights charge outrageously, and elephants trample everything. Still, the star here is the Mongol cavalry, possibly the greatest mobile strike force in history, which gives Medieval fans and Panzer freaks alike plenty to enjoy. IBM ($49.95). Circle Reader Service # 5.

Maxis Software
2 Theatre Square, Suite 230
Orinda, CA 94563-3346
(800) 33-MAXIS

SIMCITY 2000 SCENARIOS VOL. I—GREAT DISASTERS: Although Maxis prefers to call it a "software toy," *SimCity 2000* nonetheless offers quite a challenge for any gamer. The detailed graphic worlds in this package open up 10 new urban vistas for your entertainment, each with its own unique disaster. Some, like volcano eruptions in Portland, are natural; more man-made calamities include riots, pollution, and a nuclear meltdown (for those who missed *The China Syndrome* on cable). There is even a trendy earthquake and fire in California. While some may tire of being, in effect, humanity's janitor, most gamers will jump at the chance to deal with UFO invasions and eruptions of the volcanic kind. IBM, Mac (24.95). Circle Reader Service # 6.

Megasoft Entertainment
137 West Bay Area
Webster, TX 77598
(713) 554-7137

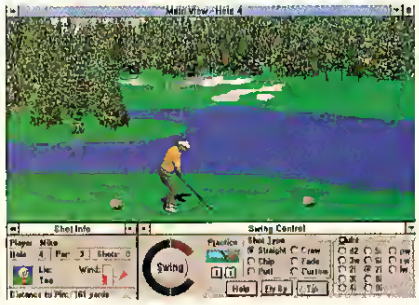
DISCIPLES OF STEEL: Perhaps this game might be more appropriately titled *Disciples of Stainless Steel*, because it appears to be a role-playing game with the kitchen sink thrown in. Long time role-players will recognize elements from all of the major games of the past decade. The combat system will instantly bring SSI's *Gold Box* engine to mind. The main interface is somewhat akin to *Crusaders of the Dark Savant*, while the documentation has a certain *Wizardry I* element of discovery to it. The usual table of party members has been widened somewhat to include a party of eight, with a variety of skills and classes to choose from. Beyond the typical party concerns, the game also has a broader strategic element, as you can raise armies to conquer and control castles. IBM ($59.95). Circle Reader Service # 7.

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
(206) 882-8080

MICROSOFT GOLF COURSE DISKS: Windows users often complain that there

SimCity 2000 Scenarios Volume 1
—Great Disasters

Disciples of Steel



Microsoft Golf Course Disks

Ultima VIII Pagan

Dennis Miller—That's News To Me

aren't enough games for their OS of choice. Well, the creator of that OS, Microsoft, is trying to do something about that with their relatively new Microsoft Home line. The latest releases from that line include three new Microsoft Golf courses that are sure to put some fire under golfers irons. *Banff Springs* puts the Canadian Rockies in your picture window. For those preferring a course nearer sea level, *Pinehurst* offers the masterpiece of Donald Ross, without the usual 60-day waiting period for reservations. Of all the courses, *Mauna Kea* is the most exotic. Its Hawaiian beauty hides a difficult course, quite unlike the others, and is a good choice with which to impress the neighbors. The interface is elegant, and the game's pro tips and different camera angles add to the enjoyment. IBM ($24.95). Circle Reader Service # 8.

Origin Systems, Inc.
12940 Research Blvd.
Austin, TX 78750
(512) 335-5200

ULTIMA VIII PAGAN: In a notable departure from previous *Ultimas*, *Ultima VIII Pagan* leaps forward in technology but drops, in favor, some traditional baggage that *Ultima* fans have grown fond of lugging around. Though the imagery is gorgeous and the perspective improved, the Avatar's interaction with the world more resembles *Prince of Persia* than anything the previous *Ultimas* have offered. Also lost in the transformation are all previous companions, and the ability to travel to different towns and sail the seas. While the graphics and digital audio have increased in quality, the world itself has grown smaller. Those who find their greatest pleasure in visuals and action sequences will be pleasantly surprised, as may be those new to the lands of Britannia, but traditional RPGers and longtime Avatars may find more vices than virtues in Lord British's latest effort. IBM ($79.95, Speech Pack $24.95). Circle Reader Service # 9.

Sanctuary Woods
1875 South Grant St.
San Mateo, CA 94402
(415) 578-6340

DENNIS MILLER—THAT'S NEWS TO ME: It's ironic that a comedian known for puncturing the puffed up egos of the rich and famous would come in an oversized package largely filled with air. Dennis Miller stars in an "interactive" comedic monologue (a direct spin-off of Miller's stint as Saturday Night Live's newscaster) where you play the producer, selecting which of the many Dennis Miller jokes you wish to hear. The witti-

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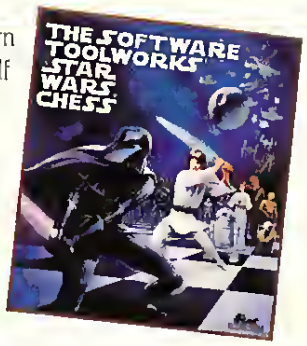

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Circle Reader Service #116

cisms encompass Sports, World News, Politics and Show Biz (with the inevitable Clinton and Buffalo Bills jokes) and are organized by month, category and specific news story. The more than 200 bits showcase Miller's satdonic style, although this marerial, being based on headline news from 1993, may not tickle quire as much now as ir would have a yeat ago. IBM CD-ROM and Mac CD-ROM ($29.95). Circle Reader Service # 10.

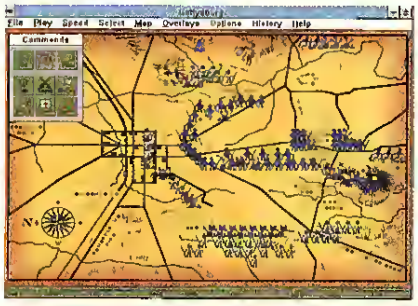
Sierra On-Line, Inc.
P.O. Box 485
Coatsegold, CA 93614
(800) 757-7707

GOBLINS QUEST 3: In keeping with the charm, wir, and animated antics characteristic of the firsr two games in the series, *Goblins Quest 3* is designed to thoroughly amuse and puzzle all who set foot into this zany world. The unlikely heto in this offshoot of the *Goblins* tale is Blount, a journalist by trade and an advenruret by heart. With a strong desire ro frequent faraway lands, this headstrong writer and hard-headed goblin sets off for Foliandre Mountain in search of a famous artifact thoughr to bestow special pleasures upon the individual who returns it to his people—the Jewel of the World. In the course of his quest, Blount changes from weakling to strapping heto as he alters size, sprouts wings, and ttansforms into a werewolf. Puzzle lovers ate guatanteed an enjoyably bizarre expetience. IBM CD-ROM ($29.95). Circle Readet Service # 11.

Swfte International, Ltd.
Stone Mill Office Park
722 Yorklyn Road
Hockessin, DE 19707-8701
(302) 234-1740

GETTYSBURG MULTIMEDIA BATTLE SIMULATION: A fine example of the merging of Hollywood and computer gaming can be seen here, whete Swfte's previously released wargame is mated with Ted Turner's *Gettysburg* film, producing a rather unique ptoduct. Gameplay is much rhe same as rhe original release, although the icons are more stylized than in the floppy vetsion. Arcade elements, such as aiming cannon fire, persist in this "simulation." The battle scenes were the besr part of the Turner film, and they are certainly one of the high points of rhe game. Similarly, the voice-overs by noted Civil Wat historian Shelby Foote help bring the campaign descriprions to life. Much more accessible for the novice or casual gamer rhan in its original fotm. IBM CD-ROM ($69.95). Circle Reader Service # 12.

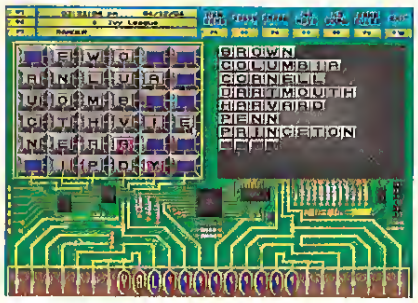
Goblins Quest 3



Gettysburg Multimedia Battle Simulation

Arcade Action Kit

Elements Logic



Games Magazine Presents Word Puzzles

Villa Crespo Software, Inc.
1725 McGovern St.
Highland Park, IL 60035
(708) 433-0500

ARCADE ACTION KIT: Villa Crespo has gatheted five acrion games pteviously sold separately in theit Coffee Break series into one budget-ware box. *International Ninja Rabbits* is a cartoonish spoof/imitation of the *Street Fighter* games. *Canyon Capers* and *Demon Blue* are yout typical scrolling-tunning-jumping-dying-a-lot games. Mote of the classic atcade style can be found in *Turn n' Burn*, an *Asteroids* wannabe. *Space Vegetables'* silly plotline has you harvesting colorful and improbable extta-terrestrial fauna to fill the srarving bellies back on earth, and sports a more ptofessional look than the test of this budget-ware collection. All of these games run in the lower-end of the quality spectrum, but action lovers may not be able to resist the value. IBM ($49.95). Circle Reader Service # 13.

ELEMENTS LOGIC: Another in the seemingly endless maze of maze games, this one requites you to maneuvet a spherical "element" thtough several mazes on a number of levels. You are conftonted by locked doots and insidious traps that can swallow your btave element before it even has the chance to tun out of energy, but the mazes are filled with colored keys, extta energy and life pills, and point spaces galote. Should you find yourself in a no-win situation in any maze you can always hit the Suicide key to start over. Whatevet would the Senate Subcommittee on Video Game Violence say? IBM ($29.95). Circle Readet Service # 14.

GAMES MAGAZINE PRESENTS WORD PUZZLES: The monthly magazine fot puzzle players comes to rhe computer in an interactive, user-friendly form. For ttaditionalists, there are the classic crossword puzzles, but the more adventurous will find the Double Crosses a worthy challenge. Closet code-breakers will find no embartassment in the time pressure of Cryptograms, while the more casually puzzle-minded can while away rheir rime with amusing Quote Boxes. All the puzzles are graphically enhanced, with lots of colorful screens adding splash to the ttanquil pool of the puzzler's mind. With over 200 puzzles included, it's comfotting to know rhat you can't wear out your electronic eraser. IBM ($29.95). Circle Reader Service # 15.

CGW

COMPUTER GAMING WORLD HALL OF FAME

Welcome to the Cooperstown of Computer Games. Here, raised upon pedestals, you'll find the games that broke the records, established the benchmarks, and held gamers in delighted trances for hours untold.

The Bard's Tale (Electronic Arts, 1985)
Battle Chess (Interplay Productions, Inc., 1988)
Chessmaster (The Software Toolworks, 1986)
Civilization (MicroProse, Inc., 1991)
Dungeon Master (FTL Software, 1987)
Earl Weaver Baseball (Electronic Arts, 1986)
Empire (Interstel, 1978)
F-19 Stealth Fighter (MicroProse, Inc., 1988)
Gettysburg: The Turning Point (Strategic Simulations, Inc., 1986)
Gunship (MicroProse, Inc., 1989)
Harpoon (Three-Sixty Pacific, 1989)
Kampfgruppe (Strategic Simulations, Inc., 1985)
King's Quest V (Sierra On-Line, Inc., 1990)
M-1 Tank Platoon (MicroProse, Inc., 1989)
Mech Brigade (Strategic Simulations, Inc., 1985)
Might & Magic (New World Computing, 1986)
M.U.L.E. (Electronic Arts, 1983)
Pirates (MicroProse, Inc., 1987)
Railroad Tycoon (MicroProse, Inc., 1990)
Red Baron (Dynamix, 1990)
SimCity (Maxis, 1987)
Starflight (Electronic Arts, 1986)
The Secret of Monkey Island (LucasArts Entertainment Company, 1990)
Their Finest Hour (LucasArts Entertainment Company, 1989)
Ultima III (Origin Systems, Inc., 1983)
Ultima IV (Origin Systems, Inc., 1985)
Ultima VI (Origin Systems, Inc., 1990)
War in Russia (Strategic Simulations, Inc., 1984)
Wasteland (Interplay Productions, Inc., 1986)
Wing Commander (Origin Systems, Inc., 1991)
Wizardry (Sir-Tech Software, 1981)
Zork (Infocom, 1981)

Wing Commander

Origin Systems, Inc., 1991

Amiga, IBM, Sega

Wing Commander was and is, in many ways, the ultimate action game. Chris Roberts' design combined the smooth performance of a polygon-filled flight simulator with convincing bit-mapped overlays that were artistically superior to the ordinary flight simulation. The "shoot-'em-up" world was satisfyingly realistic in that it allowed gamers to shoot at everything—even their mother ship! The truly unique aspects were its cinematics. It wrapped the intense action around a well paced cinematic story, complete with a soundtrack that sped up and slowed down according to the pace of the action. When *Wing Commander* debuted on our Top 100 it broke the record for the highest rated game and held its top spot for many months.

Wizardry

Sir-Tech Software, 1981

Many Formats

Wizardry was almost an instant classic. It offered a first-person perspective dungeon crawl using line and fill technology, as well as role-playing characteristics, spells, and skills with which "people and paper" role-players could identify. Forcing players to save games at "inns" reinforced the suspended disbelief that you were actually exploring a dungeon in a real world where your character had real needs. The *Wizardry* series is, of course, one of the Big Three role-playing epics in computer gaming, along with the *Ultima* and *Might & Magic* series.

Top Adventure Games

	GAME	COMPANY	SCORE
1	Day of the Tentacle	LucasArts	9.94
2	Monkey Island 2: Le Chuck's	LucasArts	9.91
3	Indiana Jones: Fate of Atlantis	LucasArts	9.79
4	Gabriel Knight	Sierra	9.65
5	Quest for Glory III	Sierra	9.56
6	Sherlock Holmes CD I	Viacom	9.55
7	Star Control II	Accolade	9.33
8	The Seventh Guest	Virgin	9.32
9	Lost Files of Sherlock Holmes	Electronic Arts	9.20
10	King's Quest VI: Heir Today...	Sierra	9.17

Top Role Playing Games

	GAME	COMPANY	SCORE
1	Ultima Underworld	Origin	10.22
2	Arena: The Elder Scrolls	Bethesda	9.80
3	Betrayal at Krondor	Dynamix	9.64
4	Lands of Lore	Virgin	9.54
5	Ultima Underworld II	Origin	9.42
6	Might & Magic III	New World Computing	9.41
7	Might & Magic: Darkside of Xeen	New World Computing	9.37
8	Ultima VII	Origin	9.35
9	Eye of the Beholder II	SSI	9.34
10	Might & Magic: Clouds of Xeen	New World Computing	9.34

Top Simulation Games

	GAME	COMPANY	SCORE
1	X-Wing	LucasArts	9.71
2	Falcon 3.0	Spectrum HoloByte	9.59
3	World Circuit	MicroProse	9.44
4	Aces of the Pacific	Dynamix	9.38
5	Indy Car Racing	Virgin/Papyrus	9.33
6	Comanche: Maximum Overkill	NovaLogic	9.27
7	Aces over Europe	Dynamix	9.20
8	Secret Weapons of the Luftwaffe	LucasArts	9.19
9	Stunt Island	Disney	9.00
10	Gunship 2000	MicroProse	8.95

Top Strategy Games

	GAME	COMPANY	SCORE
1	Master of Orion	MicroProse	10.26
2	Merchant Prince	QOP	10.24
3	Sim City 2000	Maxis	10.11
4	Solitaire's Journey	OOP	9.97
5	Dune II	Virgin	9.87
6	Chessmaster 3000	Software Toolworks	9.32
7	Kasparov's Gambit	Electronic Arts	9.28
8	Syndicate	Electronic Arts	9.21
9	Hong Kong Mahjong Pro	Electronic Arts	9.13
10	The Lost Admiral	QOP	9.05

Reader Poll #117

Top 100 Games

COMPUTER GAMING WORLD
The #1 Computer Game Magazine

	Game	Company	Type	Score
1	Doom	Id Software	AC	10.49
2	Links 386 Pro	Access	SP	10.33
3	Master of Orion	MicroProse	ST	10.26
4	Merchant Prince	OOP	ST	10.24
5	Ultima Underworld	Origin	RP	10.22
6	Sim City 2000	Maxis	ST	10.11
7	Warlords II	SSG	WG	10.09
8	Wing Commander II	Origin	AC	10.00
9	Solitaire's Journey	OOP	ST	9.97
10	Day of the Tentacle	LucasArts	AD	9.94
11	Front Page Sports Football Pro	Dynamix	SP	9.91
	Monkey Island 2: Le Chuck's Revenge	LucasArts	AD	9.91
13	Dune II	Virgin	ST	9.87
14	Arena: The Elder Scrolls	Bethesda	RP	9.80
15	Indiana Jones: Fate of Atlantis	LucasArts	AD	9.79
16	The Perfect General	OOP	WG	9.75
17	V for Victory: Velikiye Luki	Three-Sixty Pacific	WG	9.73
18	X-Wing	LucasArts	SI	9.71
19	Carriers at War Construction Kit	SSG	WG	9.68
20	Gabriel Knight	Sierra	AD	9.65
21	Betrayal at Krondor	Dynamix	RP	9.64
22	V for Victory: Utah Beach	Three-Sixty Pacific	WG	9.63
23	NHLPA Hockey	Electronic Arts	SP	9.62
24	Falcon 3.0	Spectrum HoloByte	SI	9.59
25	V for Victory: Market Garden	Three-Sixty Pacific	WG	9.58
26	Quest for Glory III	Sierra	AD,RP	9.56
27	Sherlock Holmes CD I	Viacom	AD	9.55
	Wolfenstein 3-D	Id Software	AC	9.55
29	Lands of Lore	Virgin	RP	9.54
30	Conquered Kingdoms	OOP	WG,ST	9.53
31	War in Russia	SSI	WG	9.49
32	World Circuit	MicroProse	SI	9.44
33	Ultima Underworld II	Origin	RP	9.42
34	Might & Magic III	New World Computing	RP	9.41
35	Privateer	Origin	AC	9.39
36	Aces of the Pacific	Dynamix	SI	9.38
37	Might & Magic: Darkside of Xeen	New World Computing	RP	9.37
	Hardball III	Accolade	SP	9.37
39	Ultima VII	Origin	RP	9.35
40	Pacific War	SSI	WG	9.34
	Might & Magic: Clouds of Xeen	New World Computing	RP	9.34
	Eye of the Beholder II	SSI	RP	9.34
43	Star Control II	Accolade	AD,AC	9.33
	Indy Car Racing	Virgin/Papyrus	SI	9.33
45	The Seventh Guest	Virgin	AD	9.32
	Chessmaster 3000	Software Toolworks	ST	9.32
47	Kasparov's Gambit	Electronic Arts	ST	9.28
48	Comanche: Maximum Overkill	NovaLogic	SI	9.27
	Jack Nicklaus Signature Golf	Accolade	SP	9.27
50	V for Victory: Gold Juno Sword	Three-Sixty Pacific	WG	9.24

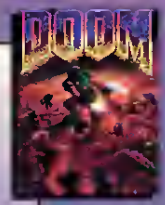
The Computer Gaming World Poll

A monthly survey of the readers of Computer Gaming World Magazine.

Top Wargames

	GAME	COMPANY	SCORE
1	Warlords II	SSG	10.09
2	The Perfect General	QQP	9.75
3	V for Victory: Velikye Luki	Three-Sixty Pacific	9.73
4	Carriers at War Construction Kit	SSG	9.68
5	V for Victory: Utah Beach	Three-Sixty Pacific	9.63
6	V for Victory: Market Garden	Three-Sixty Pacific	9.58
7	Conquered Kingdoms	QQP	9.53
8	War in Russia	SSI	9.49
9	Pacific War	SSI	9.34
10	V for Victory: Gold Juno Sword	Three-Sixty Pacific	9.24

Top Action Games



	GAME	COMPANY	SCORE
1	Doom	Id Software	10.49
2	Wing Commander II	Origin	10.00
3	Wolfenstein 3-D	Id Software	9.55
4	Privateer	Origin	9.39
5	Lemmings	Psygnosis	9.21
6	Tetris Classic	Spectrum HoloByte	9.14
7	Oh, No! More Lemmings	Psygnosis	8.92
8	Prince of Persia 2	Broderbund	8.60
9	Out of this World	Interplay	8.57
10	Rebel Assault	LucasArts	8.51

Top Sports Games

	GAME	COMPANY	SCORE
1	Links 386 Pro	Access	10.33
2	Front Page Sports Football Pro	Dynamix	9.91
3	NHLPA Hockey	Electronic Arts	9.62
4	Hardball III	Accolade	9.37
5	Jack Nicklaus Signature Golf	Accolade	9.27
6	Tony La Russa Baseball II	SSI	8.78
7	NFL Pro League Football	Micro Sports	8.54
8	The Games: Winter Challenge	Accolade	8.50
9	4-D Boxing	Electronic Arts	8.37
10	Wayne Gretzky Hockey III	Bethesda	8.30

Poll is based on reader survey cards in each issue of *CGW* and published two issues subsequent. Data on more than 100 games is archived and top ten lists may contain games which scored below the Top 100 cutoff

51	Lemmings	Psygnosis	AC,ST	9.21
	Syndicate	Electronic Arts	ST.AC	9.21
53	Aces over Europe	Dynamix	SI	9.20
	Lost Files of Sherlock Holmes	Electronic Arts	AD	9.20
55	Secret Weapons of the Luftwaffe	LucasArts	SI	9.19
56	King's Quest VI: Heir Today...	Sierra	AD	9.17
57	Tetris Classic	Spectrum HoloByte	AC	9.14
58	Hong Kong Mahjong Pro	Electronic Arts	ST	9.13
59	The Castle of Dr. Brain	Sierra	AD	9.11
60	Eye of the Beholder	SSI	RP	9.10
	Wizardry VII: Crusaders of Savant	Sir-Tech	RP	9.10
62	The Dagger of Amon Ra	Sierra	AD	9.09
63	Ultima VII: Part Two Serpent Isle	Origin	RP	9.08
64	Les Manly in: Lost in L.A.	Accolade	AD	9.06
65	Bane of the Cosmic Forge	Sir-Tech	RP	9.05
	Quest for Glory I (VGA)	Sierra	AD,RP	9.05
	The Lost Admiral	QQP	ST	9.05
68	Eric the Unready	Legend	AD	9.04
	Empire Deluxe	New World Computing	WG	9.04
	Conquests of the Longbow	Sierra	AD	9.04
71	Clash of Steel	SSI	WG	9.03
72	Police Quest 3	Sierra	AD	9.01
73	Stunt Island	Disney	SI	9.00
	Battles of Destiny	QQP	WG,ST	9.00
75	Space Quest IV	Sierra	AD	8.98
	Western Front	SSI	WG	8.98
77	Carriers At War	SSG	WG	8.97
78	The Adventures of Willy Beamish	Dynamix	AD	8.96
	Freddy Pharkas Frontier Pharmacist	Sierra	AD	8.96
80	Alone in the Dark	I-Motion	AD	8.95
	Gunship 2000	MicroProse	SI	8.95
82	The Incredible Machine	Dynamix	ST	8.92
	F-117A	MicroProse	SI	8.92
	Oh, No! More Lemmings	Psygnosis	AC,ST	8.92
85	The Island of Dr. Brain	Sierra	ST	8.91
86	Chuck Yeager's Air Combat	Electronic Arts	SI	8.87
87	Sam & Max Hit The Road	LucasArts	AD	8.86
88	Indianapolis 500	Electronic Arts	SI	8.83
89	Spellcasting 301: Spring Break	Legend	AD	8.81
90	Rex Nebular	MicroProse	AD	8.80
91	Gateway to the Savage Frontier	SSI	RP	8.79
92	Tony La Russa Baseball II	SSI	SP	8.78
	Populous II	Electronic Arts	ST	8.78
	Hoyle Book of Games, Vol. 3	Sierra	ST	8.78
	High Command	Three-Sixty Pacific	WG	8.78
96	Heart of China	Dynamix	AD	8.75
97	Veil of Darkness	SSI	RP	8.74
	Dracula Unleashed	Viacom	AD	8.74
99	Gateway	Legend	AD	8.72
100	Starflight II	Electronic Arts	RP	8.71

Games on unnumbered lines have scores equal to the line above = Top game of type. Magenta=New Game
AD=Adventure, RP=Role Playing. SI=Simulation. ST=Strategy. WG=Wargame. AC=Action. SP=Sports

PC Research Hits List Of Top-Selling Software

February, 1994

PC Games (MS-DOS/Windows)

Rank	Title and Source
1.	Sim City 2000 (Maxis)
2.	Microsoft Flight Simulator (Microsoft Corp.)
3.	Star Wars Rebel Assault (LucasArts Entertainment)
4.	The 7th Guest (Virgin Interactive Entertainment)
5.	Wolfenstein 3D/Spear of Destiny (Formgen)
6.	X-Wing (LucasArts Entertainment)
7.	Leisure Suit Larry VI (Sierra On-Line, Inc.)
8.	Aces Over Europe (Sierra On-Line, Inc.)
9.	X-Wing, B-Wing (LucasArts Entertainment)
10.	Police Quest IV (Sierra On-Line)
11.	Links 386 Pro SVGA (Access Software, Inc.)
12.	Mortal Kombat (Hi Tech)
13.	Microsoft Arcade (Sierra On-Line, Inc.)
14.	Links: Pebble Beach (Access Software, Inc.)
15.	Sub War 2050 (MicroProse)
16.	Sim City (Maxis Software)
17.	Star Trek: Judgment Rites (Interplay)
18.	Indy Car Racing (Virgin Interactive Entertainment)
19.	Gabriel Knight (Sierra On-Line, Inc.)
20.	Lawnmower Man (EduQuest)

Amiga Games

Rank	Title and Source
1.	AD&D Gateway to Savage Frontier (Strategic Simulations, Inc.)
2.	Space Quest IV (Sierra On-Line, Inc.)
3.	Powermonger (Electronic Arts)
4.	Heart of China (Sierra On-Line, Inc.)
5.	Castles (Interplay)

Macintosh Games

Rank	Title and Source
1.	SimCity 2000 (Maxis Software)
2.	Myst (Broderbund Software, Inc.)
3.	Sim City (Maxis Software)
4.	Leisure Suit Larry VI (Sierra On-Line, Inc.)
5.	Hoyle's Classic Card Game (Strategic Simulations, Inc.)

CD-ROM Products

Rank	Title and Source
1.	Star Wars Rebel Assault (LucasArts Entertainment)
2.	The 7th Guest (Virgin Interactive Entertainment)
3.	Microsoft Encarta (Microsoft Corporation)
4.	Gabriel Knight (Sierra On-Line, Inc.)
5.	Myst (Broderbund Software, Inc.)
6.	Lawnmower Man (EduQuest)
7.	Lands of Lore (Virgin Interactive Entertainment)
8.	Comanche: Maximum Overkill (Electronic Arts)
9.	King's Quest VI (Sierra On-Line, Inc.)
10.	Star Trek 25th Anniversary (Interplay)

This list is based on units sold by ten retail chains, representing over 1300 stores. For more information, please contact PC Data at (703) 435-1025

What You've Been Playing Lately

Every month our mailbox bulges with hundreds of Reader Input Cards from our most loyal and outspoken readers. Over the years we've found these cards to be an invaluable source of feedback. Within 10 days of releasing our latest issue we can expect to see cards pouring in with suggestions, encouragements, tirades and many good laughs, in addition to the data for our Top 100 poll. Through your efforts, we know *exactly* where we stand with our readers (you don't mince words!), and we are treated to well-articulated opinions on anything and everything related to gaming. This column is a forum for these responses and for the results of our "Playing Lately?" query on the Reader Input Card. Thanks for taking the time to fill them out...keep 'em coming!

Playing Lately? Results For CGW #117, April 1994

1. Doom (id Software)
2. Master of Orion (MicroProse)
3. SimCity 2000 (Maxis Software)
4. Elder Scrolls: Arena (Bethesda)
5. Privateer (Origin Systems)
6. X-Wing (LucasArts Entertainment)
7. Warlords II (Strategic Studies Group)
8. Aces Over Europe (Dynamix)
9. Fleet Defender (MicroProse)
10. Falcon/Hornet (Spectrum HoloByte)

The Players Speak

"Where is the Paramutual race game where one to eight players can squeeze the person on the favorite, beware the longshot, and lose it all due to random factors—while networking like *Doom*?"

—Rick Schwartz, Winnetka, IL

"Like A Emrich & P Schlunk, I bought *Red Crystal* specifically to play the game over (null) modem. I was never able to get the #@!* thing to run.
I think that the Orbital Mind Control Lasers have taken over QQP."

—Ex-Illuminatus, San Diego, CA

"*Fleet Defender*. Finally, a flight sim that does most of the things that Falcon 3 promised a few years ago—and in a virtually bug-free format. A round of applause for MPS."

—F. McKenna, Bowling Green OH

"The Pebble Beach course for *Links 386 Pro* has made it impossible for me to concentrate on anything related to making a living."

—Bruce MacLeod, San Francisco, CA

"Just when you get tired of shelling out good money for dubious 'sequels' (unchanged except for Gold or Deluxe in the title), along comes *MOO* to make it all seem like money well spent."

—K. Thonrees, Lawrence, KS

"We want modem and/or multi-player *MOO* & *Civilization*! Is anybody home at MicroProse?"

—Colin Blackburn, Allentown, PA

My wife said it's either her or *Master Of Orion*. Let the Klackons rule."

—soon-to-be-single, Brockton, MA

"Let's see—should I use my computer to prepare my tax forms or to play *Doom*? id Software is dooming me to be delinquent this year."

—Bill Chapman, Salem, OR

"A dog detective? A psychotic rabbit with a propensity for violence?? What kind of game is this?? The only thing I'm totally sure of: *Sam & Max Hit The Road* is totally addictive."

—Eric Novak, Tuscarora, PA

The Patch File

Computer game programs have grown so massive and the number of possible configurations has become so huge thar incompatibilities and glirches are frustratingly common. Parches for "buggy" programs have become a necessary evil unril we reach the golden age of standardized platforms and bug-free programs ("Close your eyes, Dorothy...").

These patches can usually be downloaded from most major networks (CompuServe, GEnie or ZiffNet), but can also be obtained from individual software publisher's own BBSs or direct from the publisher with proof of purchase. We continue to urge publishers to keep us updated on the latest versions/patches to their games.

Air Warrior V1.13 Update: New execute files, fixes several problems. 3/1/94

**Arena V1.04 Update: Fixes several map, music, scrolling and magic problems. Provides new hot keys and allows you to sell magic items and delete spells. Particularly helpful for 386 machine users. 3/1/94

Comanche: Maximum Overkill Update: Includes several hardware fixes, including a fix for the Pentium and the Diamond Stealth Pro video card. 1/27/94

CyberRace CD-ROM V1.2 Update: Lowers the base memory requirements, fixes the save game problems, and remedies joysrick problems (especially with Phoenix BIOS). 1/20/94

**Diamond Dreams Upgrade: Fixes all known bugs, and features greatly improved AI for computer manager strategies. 3/29/94

**Falcon 1.02 Mac Upgrade: Fixes sound problems on Mac AVs. 3/20/94

Front Page Sports Football Pro: Fixes player draft error and includes 26 AI enhancements. 2/11/94

Gabriel Knight CD-ROM Update: Fixes all known problems. 1/21/94

Gobliins CD-ROM Patch: Fixes sound card and CD-ROM driver problems. 3/1/94

Hornet Patch: Fixes many bugs and adds new features to Spectrum HoloByte's combat sim. 2/07/94

**IndyCar Racing V1.02: Fixes several sound problems, as well as more minor corrections. 3/16/94

**IndyCar Racing Patch: Allows use of the Gravis Ultrasound Card. 3/20/94

**Jutland V1.1 Upgrade: Allows non-penetrating shells, adds more graphics, runs smoother, and most significantly, includes time compression 3/30/94.

**Lands Of Lore CD-ROM V1.22 Upgrade: Fixes lockup problems on fast machines, allows retrieval of Dawn's key and allows use of Waveblaster/Soundblaster 16 combo. 3/7/94

Legend of Kyrandia V1.3 Update: Fixes lockups and corrects phrasing used by the characters. 2/04/94

Links 386 Pro Version 1.21: Corrects many major and minor bugs. 1/28/94

Lost In Time CD-ROM Update: Fixes problems with several CD drives and certain Sound Blaster-compatible audio cards. 2/09/94

Master of Orion V1.3 Upgrade: This patch features tougher opponents, adjusted play-balance, and legions of minor combat tweaks. 1/06/94

**Merchant Prince Update: Newesr version of QQP's straregy game. 3/11/94

Metal and Lace V1.42A Update: Fixes a few minor bugs and adds an Easy and Difficult mode. 1/20/94

Mortal Kombar PC Updare: Improves sound card support, fixes crash bugs, and requires less conventional memory. 1/21/94

Nomad Patch: Gets rid of inventory bug for trade. 3/1/94

**Police Quest 4 Patch: Fixes all known problems and speeds up restoration of saved games. Disk version only. 4/5/94

Quest For Glory 4 Patch: Corrects various memory allocation errors and lockups that some player have been encountering, in addition to a few puzzle bugs. 1/21/94

Quest For Glory 4 Patch: Allows players to receive note from Katrina. 2/17/94

(** indicates new files)

**Rally V1.1 Upgrade: Fixes joystick calibration and other problems. 3/24/94

Real Weather Pilot Patch: Conrains aircraft ID patch and fixes insrall problems with bios. 3/1/94

Real Weather Pilor Parcb: Allows players ro use letrers only, as suggested by the FAA. 3/1/94

**Red Baron Patch: Configuration fix for IBM only. 3/29/94

**Seawolf Patch: Allows 16-bit Sound Blaster sound effects and music. 3/30/94

SimCity2000 V1.1 Update (Mac): Latest version, it fixes the budget problem, among others. 3/1/94

**Terminator Rampage Patch: Allows Pentium users to play the game. 3/8/94

TFX Patch: Fixes the unexpected interrupt error message due to hardware conflicts, in addition to unexplained crashes. 1/24/94

TFX Patch UK V2.0 Upgrade: Makes UK version equal to USA V 2.0, including several new features in addition to bug fixes, but only works if you downloaded first patcb as well. 2/24/94

**Unnecessary Roughness Revision: Changes graphics, avoids lock-ups, and allows use of Sound Blaster. Team stars are actually used, hand-offs work correctly, and players do not vanish when tackling. CD-ROM versions will now load without error. 3/8/94

**Victory At Sea V1.01 Upgrade: Corrects numerous problems with the inirial release. 3/14/94

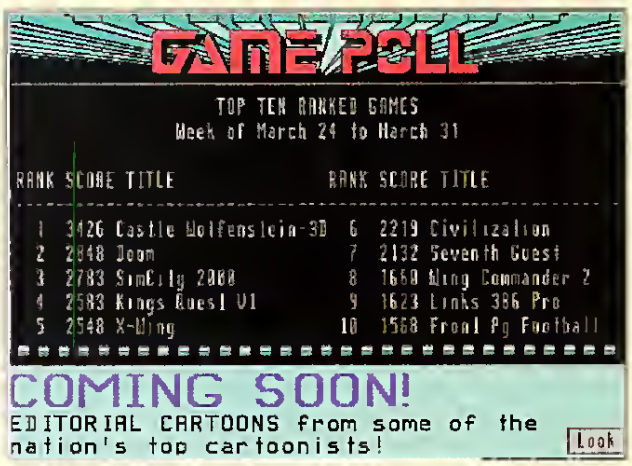
War in Russia V1.1 Update: Adjusts the game mechanics and fixes minor bugs. 2/08/94

World of Xeen CD-ROM Patch: Fixes the problems wirh switching CDs and with the boat ride into Rivercity. 1/03/94

**WW2 Battles Of The South Pacific: The latest upgrade for QQP's naval wargame. 3/11/94

The PRODIGY Weekly Top Ten

Computer Gaming World is Prodigy's on-line games expert. Look for us in their Game Center, a forum where users read articles posted on-line by *CGW* and exchange messages on the bulletin boards (we can be reached there at EXPT40B). The Prodigy Game Poll is run by Prodigy based on a list of games provided by *CGW* and is updated weekly. Note that it is nor a cumulative raring over time (like the *CGW* Top 100 Poll). Instead, the Prodigy Game Poll is a weekly "Snapshot" of game popularity wirh gamers rating their favorites on a 1 - 10 scale. The highest total point earners make their Top 10. We provide this data ro our readers as anorher barometer of "whar's hot" in computer gaming.



THIS HORSE IS A NORSE

by Willie Francis Longden

I pulled into someone's front yard and paid the requisite $15 to park on someone's once proud bluegrass. I was headed for historic Churchill Downs on Derby Day and I had a hot tip on *Tank Girl*. If this filly was in the classic race, I would bet on her like the feminists used to bet on Ruffian back in the early '70s.

I headed for the main entrance and collided head-on with a group of tract-wielding Baptists. When they asked someone in front of me if he knew the Lord, he said he did. When they asked what he was doing at the racetrack, he mumbled something about preaching to Republicans and sinners. So, they left him alone and came after me. I told them I was part of a Neo-Norse cult that believed only Thor could save us from Ragnarok.

Their witnessing training hadn't prepared them to deal with mischievous mythologians, so they didn't know what to think as I started describing some of the interesting features in New World Computing's upcoming *Hammer of the Gods* as though it was my personal theology. The product is being developed by Several Dudes Holistic Gaming, the Georgia crew that designed *Battles of Destiny* and *Merchant Prince* for QQP. I explained that this strategy game was sort of like *Sid Meier's Civilization*, except that, instead of working your way up a technology tree, you work your way up the deity chain until you become Odin's right hand god. I didn't bother telling them that the game is due in the late third quarter.

I made my way through the pedestrian underpass that leads to the infield at Churchill Downs and shelled out a couple of bucks for a tout sheet that turned out to be an unsolicited manuscript talking about id Software's *Quake*. So, I read about the impressive new game engine that is supposed to offer a true 3-D world and the fascinating idea of you becoming a Thor-like god with a mighty hammer.

Then, before I could get an actual racing form and place a bet, I had an embarrassing experience. I noticed a woman standing atop a fountain and the crowd was yelling something about wanting to see some bits. Figuring she was a fellow computer game journalist being encouraged to share her latest scoop, I moved closer to the fountain. I thought she might talk about Jeff Johannigman's current project. The producer of *Master of Orion* is working on a game called *Little Wars* with classic SPI boardgame designer Redmond Simonsen. He describes it as a wargame with a 45-degree view where *Populous* and *SimCity* gang up on *The Perfect General*.

That wasn't what she was doing, however. The nicest thing I can say is that she was splattering those of us close enough to her with water from the fountain. On a humid May Day in Kentucky, the little impromptu shower made me think I had stepped into a scenario from Maxis' *SimRainForest*. On the other hand, I had misheard "bits."

I quickly redirected my steps toward the betting window and my mind toward computer games. *MOO*'s creator, Steve Barcia, has been very busy working on *MechWar*. It's supposed to have a *Dune 2*-style interface that is more up close and personal. Also, the vehicles/robots become more and more sophisticated as game play improves. It's due from New World Computing around the first of next year, just like *Empire Deluxe 2*. The sequel is supposed to have an easier network and modem interface.

Suddenly, a young lovely appeared in front of me with a mint julep in each hand. She handed one to me and drawled, "Looking for *Tank Girl*?" I told her I was just going to place a bet on her and she giggled with her most coquettish southern accent. "Why Willie," she whispered, "she's not a horse. She's an underground comic character being turned into a Macintosh CD-ROM game. I just thought we'd spend Derby Day together and you could tell me who was publishing it."

Unfortunately, I didn't know who was publishing it. I mentioned that Electronic Arts is supposed to be working on a *Nancy Drew* game to appeal to young girls, but that was a far cry from the *Tank Girl* concept. We downed our mint juleps and as we drank another, I told her that Simutronics is supposed to be teaming up with Time Warner to do a multi-network murder-mystery game using the *Gemstone* engine. I told her that they might even be using some well-known mystery series licenses and, on the third julep, suggested that there is no word yet concerning which on-line networks will be participating.

Unfortunately, my memory is rather hazy concerning the winner of this year's Kentucky Derby. That third julep had my head spinning and I'm still not sure if it was *Tank Girl* or *Hammer of the Gods*. CGW

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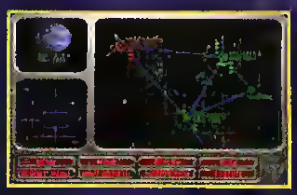

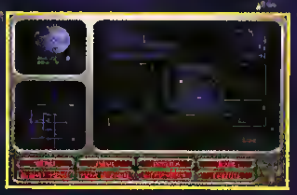

Actual screens may vary.

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