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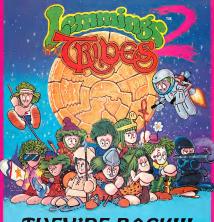
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M.I.S. Manager Gene Allen Ad Manager Jim Messina Cimulation

Kathy Garcia Contributing Editor (Adventure Games) Scorpla Contributing Editor (Wargames) Art Director Jay Eisenbera

Computer General World (ISSN 0744-0667) is published mogthly by Ziff-Davis Patti-bing Company, a division of Ziff Communications Co., 130 Compared Cl. State 260. Amberra Hills, CA 92508. Second-class. Contrary are conveniend by 216-Days, Publishing Co.

Postaurier: Send address changes to Computer Garring. The subscription rate for twelve issues (one year) is payments must be in U.S. dollars, made by check down

Prodgy EXPTICE Internal COW/FWELL-SE CAUS Subscription Days, 1 (800) 827-4450 Telephone (716) 283-5000 Fouren Subscribere (815) 734-1113 For adventising enformation custs, take 35; Publishers' Representative Company 3415 S. Suzubveta (Blvd., Suga 520)

Los Angelos, CA 90034

Printed in the U.S.A.

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State of the Industry: The Sollowing mory is true. Only the names have been changed to protect the galify fand so awe queed. Unfortunated, it is a story that is becoming more and more provided to the control of the c

dusy box with het other dispepointing purchases. She unddenly starts to receive caralogs and consets offers from a half-dozen sources, all with the variant spelling of her name that size put on her warranty card. A couple of months go by and she picks up a copy of Computer Gaming World. She looks at the department we call "Parches" and discovers that three is an updated version of Octifour Pex. Her blood pressure rises as the discover that they pressure rises as the discovers that they have been supported by the property pressure rises as the discovers that they partle has been pressure rises as the discovers that they partle has been pressure rises as the discovers that the partle has been the pressure rises as the discovers that the partle has been the pressure rises as the discovers that the partle has been the pressure rises as the discovers that the partle has been the pressure rises as the discovers that the partle has been the pressure rises as the discovers that the partle has been the pressure rises as the partle shows the pressure rises are the pressure rises as the partle has been the pressure rises are the partle has been the pressure rises as the partle has been the pressure rises are the partle has been the pressure rises as the pressure rises are the

invalishé for weeks. Her warranty and final gamered a honauss of just mail, including the lenet Wey Just caraling, but no wood of the patch. The aroy is not induced. One day a gamer who knew that I was the edition of COV imminatements whenhaled me for howing the the colline of COV imminatements whenhaled me for howing the it was a very useful columns when the rest of the editional staff proposed the doc) and staff only why a major not forware company had the time to sell han name and address, but not to let him know when these were considerable and the columns when the contract of the columns of the columns and the columns when the rest of the edition of the columns when the columns are columns and the columns are considerable and the columns are columns are columns as the columns are columns are columns as the columns are columns

The same night, I spake on Phoenies radio's "Tailonia Commanded of your Computer", edil-in tilk show. Amont the first question from a caller was. "Why do you have to have that Patches column in the back solution." It is also that the properties of the provided the column as a ravice because most of the publishers were not updating their customers arisificiently. Since the information was not readily writing the provided it. I were on record as saring that touch gest and upperfect or their registered customers. It still don't. I beg that and upperfect or their registered customers. It still don't.

I've spent a lot of time trying to figure out why many of the publishers do not follow through on providing information to tegistered owners. First, there is the damage control theory. They may be afraid of adverse publicity and, consequently, hope that most gamers won't notice the bug, so they keep the patch a scere tunil it's needed. Unfortunately, this may mean a lot of negative "word of mouth" publicity from dissatisfied customers that might have been avoided if they had followed through in the first place.

Second, there is the greedy capitalist theory. Since the shalf-life of a game may not be very long (definitely much therer than a business or productivity application), a company may decide that it is not worthwhalto considerate to support a game after it is 2 "sole blas" item. Unfortunately, gazares do not look upon a game as having value for it is always and the state of the same and the state of the same and the same about cities that of the same that it doesn't care about cities that same and the same that it doesn't care about cities that same and the same that it doesn't care about cities that same and the same and the same that it doesn't care about cities that same and the same

Third, there is the value-subtracted theory. If a company can manage to sell the registration can drams to a mailing like backer, it manages to recoup some of the money is spends on data centry. If a company can see that our a crutige making, it can recopul some of the data entry expense in new sales. If a company sends our thousands of a notices to customers who may or may not be continuing to play as given game, it stands to lose money for every customer who ends in for the free bug five or upgrade. Heree, it does not seem to certain

ware marketing professionals that it is worthwhile to make the bug fixes too well-known among consumerdom.

What should be

When Are Software Registration Cards Going To Fulfill Their Promise?

Ifill Their Promise?

done? We beneath between the best between the software publishers need to bliet the bullet and get the news to belp get out the word with our "Packers' column, but we think it is time for the entertainment offware industry to rake a mature customer service approach talket than acting like a "life by night"

belg per out the word with our "Patcher" column, but we think it is mine for the entertainment solviewer industry to take a mature customer service approach tathet than acting like a "liby by and industry. There are some publishers, particularly small publishers, that have really done a good job of serving their customers, even when the publisher in the patcher is the property of the property of the first and publishers to use those tegicieration cards for what they were designed for tather than playing "hide and seek" with their own customers.

State of the Magazine. This issue features a record marbor of pages and was a rether excited does the ansumed central we've covered and was rether excited does the changed central we've covered and the state of th

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Does 3DO Live Up To Promises? 3DO Executive Responds To CGW Concerns

Atari Jaguar Unveiled—Stalks 3DO

sing quotations from rival CEO, Trip Hawkins of 3DO Corporation, Sam Tramiel unveiled his company's answer to this Fall's 32-bit game machines. Atari's laguar will use a 64-bit RISCbased architecture with a true 64-bit data path. It will feature both a graphics processor and digital signal processor for sound at 27 MIPS (million instructions per second) respectively. Like the machines to be built by the competition, the laguar will feature a programmable object processor to handle sprites, pixels or character maps. It will also feature a blitter," a piece of hardware that provides fast Gouraud shading. The Atari executive stated further that the machine would feature 32-bit true color graphics on NTSC screens and would feature 16-bit CD-quality digital stereo sound.

Tramiel seemed annoyed by Trip Hawkins' pre-unveiling speculation that the Jaguar was actually two 32-bit processors running in parallel. In classic debate fashion, Tramiel asserted that the Jaguar would be a 240-bit machine using Hawkins' logic. Atari also used Hawkins' assertion that the next level of game machine had to "provide a performance level that puts the stake way out there" in order to stress how much they believe the Jaguar's technology is beyond 3DO.

Atari revealed that the launch of the machine will take place during the holiday season of 1993 in New York, San Francisco, Paris and London. It will ship with a sovpad and one

bundled cartridge from their library of five titles available ar launch, These include Club Drive (working title, a driving game), Dina Dudes (an enhanced version of Gametek's

Humans game) Trenor McFurr in the Crescent Galaxy (a horizontal sctolling space shoot-'em-up), Allen vs. Predator (a first-person 3-D scroller with smoothscrolling 3-D texture-mapped graphics); and Cybermorph (a flying shooter with sourand shaded objects). The last three titles were demonstrated at the press conference with the first two actually playing off cartridges (the laguat allows up to six megabytes of code per ROM cartridge) and the third playing off a custom development system

The basic Jaguar system will be cartridge based and will sell for around \$200. The CD-ROM drive will cost an additional \$200 and will feature the Cinepuk digital compression scheme from SuperMac that is being used on several platforms. Games are expected to retail

between \$39 and \$69 per cartridge, and CD titles may cost less CGW reminded Tramiel about Arari's

> assertion that the Jaguar was capable of being a set-top box for the "digital highway" and asked if there were specific plans in the works for either interactive relevision connections or ISDN hook-

ups. Tramiel

responded by

observing that Time-Warner still owns 24% of Atari and suggested that a television test was on a future agenda. Then, Tramiel pointed to the numeric keypad on the joypad (controller) and said that they were having discussions with an unspecified phone sys-tem. Asked about modem links, Tramiel observed that there is a comm-link port for multiple machines to be connected via

direct connect.

rior to the Atati Jaguar press conference, CGW interviewed Trip Hawkins concerning 3DO's plans. In particular, CGW asked if 3DO had settled upon a stor scheme for their new game system, and why a disk drive or flash memory was not chosen. Hawkins tesponded that the designers had opted for a 32K battery storage capacity on the machine itself. This would allow for a gamer to store his/her preferences and perhaps one save game state. Asked if this wasn't too limited for storage capacity. Hawkins drew from anecdotal evidence concerning EA's heyday of interactive stories. He said that designers were always urged to get the save states down to well less

than 32K. "Anything more," contends Hawkins, "is inefficient design.



to say that disk drives were too expensive for the small benefit they would provide when the basic delivery system would be CD-based. He did observe that flash memory may be manufactured for the machine in the future, but said that nothing was definite

Asked about the one port for a control pad and the seeming limited capacity for multi player interaction, Hawkins pointed out that the control pads could be daisy-chained to allow up to eight controllers. Showing CGW a production model of the Panasonic machine. he observed that the control pad that ships with the machine has to be at the end of the daisy chain, but said that additional pads would allow for the daisy chaining

CGW expressed concern about the need for an expansion module in order to take advantage of the many future peripherals expected for the 3DO. Hawkins affirmed that th expansion module is definitely being manufactured by Matsushita (and possibly other hardware manufacturers) and will reach the market around the middle of 1994.

Regarding the promised modern, Hawkins assured CGW that companies are competing for their designs to be the standardized technology for the 3DO. He did reveal, however, that the 3DO architecture has been established so that the addition of a modern or other peripheral will simply extend the bus so that they add to the data path of the machine.

Reminded that interactive television was part of the original promise of the 3DO machine.

Hawkins explained something of 3DO's current strategy with regard to making the machines into set-top boxes for cable television delivery. He stated that the company could use the 3DO core technology with an analog television tuner. Genlock device with MPEG2 and a port for the CD drive. Providing a port for the CD drive saves on cost of goods (and many cable operators do not really want to spend the extra dollars. per unit on a drive that they are not sure will enhance business).

Oueried about a digital future. Hawkins



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He then

noted that

3D Adventures (left) and Crash 'N Burn below) for 300.

they would be way ahead of the growth curve on that technology to build the canability into 3DO now and questioned whether cable operators would be willing to implement very many HDTV channels ini-

rially, since there is a bandwidth problem (one would be able to broadcast less HDTV channels than NTSC channels). "Whenever there is a sufficient HDTV user base," Hawkins continued, "there will be a

3DO machine to serve it. We could do it now. We'll do it better in the future. Ouestioned as to why 3DO is not the set-top box for any current interactive

television tests. Hawkins observed that the company was not committed to manufacturing custom prototypes. "That way, you can easily end up with a 4,000 unit kluge that you won't be able to use anywhere.

After the interview, Hawkins demonstrated sampler programs on the Panasonic production unit, CGW was impressed with the Cinepak video performance and the firmware (permanently installed software). The performance was impressive on all counts, and we await the release this holiday season.

Can We Talk? New Hardware Offers Voice Recognition And 3D Sound

"Mr. Chebhou! Fire when ready." ar Trek fans who have dreamt of barking orders from the command Chair of the U.S.S. Enterprise may soon have reason to shout out loud. Sierra Semiconductor's new Aria chipset, when teamed with Interplay's new version of Star Trele The 25th Anniversary, may make curt, overacting Sharners of many computer gaming fans.

The new Aria chipset featured in a new wave of sound cards from Diamond. Computer Peripherals, Inc. and Prometheus offers several gaming enhancements, including a voice recognition system that actually works. The chipset's Listener voice recognition is unique in that it does not need to be trained to the user's voice. It uses a "database" of 70 different voices to allow for a wide range of pronunciations and verbal idiosynerasies. One need only select the Aria Listener voice recognition option in their game setup, and the game is all ears. The system, as implemented in Interplay's Star Trek game, worked quite well and impressed a skeptical CGW staff. The first three episodes of the Star Trek game will be bundled with Aria products in the future. Several other companies have committed to supporting Aria as well, among them Bethesda, Id. Impressions, LucasArts, Maxis, Sierra, and Twin Dolphin.

Voice recognition is not the only Aria feature to speak of. In addition to provid-November 1993

ine OPL-2 (YM3812) FM emulation and wave table synthesis, the DSP offers OSound a system that creates 3D audio with two speakers. A pilot in a flight sim using OSoonal could hear bullers spirching his tail from behind, and in a game like Wolfenstein 3D, one could bear the sounds of Nazi guards echoing from side corridors. With a decent set of speakers the effect is very realistic.

The hardware power behind these features is a non-proprietary DSP (digital signal processor) from Texas Instruments. The DSP delivers Arm's sound enhancements without stealing additional processing power from sumes. Thus, a sumer could have QSonnd, digital audio, and wave table synthesis, or voice recognition, digital audio, and wave table synthesis running at once, without any degradation in game performance.

At a projected street price under \$200, the Aria-commod sound cards may give gamers a tantalixing sound solution. And since the cards will be software upgradable, owners will not have to scrap the board in the future if they want enhancements to the FM emulation and wave table synthesis; they can upgrade with a simple software installation.

For more information on the Azia chipset, contact Sierra Semiconductor at (408) 263-9300

Laptops Take Flight

aptop owners grounded by their portable's lack of a joystick can finally get a grip. Two companies have released products which allow a joystick to be connected into a laptop's serial or parallel port. The two products already support a number of popular flight and racing sims.

Genovation's Parallel Game Port is a small adapter that enables sumers to plus a joystick into the parallel port of their portable computer. A 3 1/2-inch disk has patches" for several games, making the product compatible with X-Wing Wing Commander II, Aces of the Pacific, F-15 Strike Earle III. World Circuit, Wolfenstein 3D, Strike Commander, Red Baron and Stunt Island. In addition, consumers receive a toll-free BBS line for downloading new game patches, bringing the total number of supported games to more than 50. The product performed flawlessly in a casual. two-hour test with Microprose's F-15 Strike Easle III.

Genovation joystick adapter offers the potenrial for a highly customized joystick, Because the product uses the laptop's parallel game port, 128 keys can be programmed for different functions in a

30 Frames Per Second? Get Reel!

game. No joystick has that many buttons, but the trend towards more buttons and erenter control on iovsticks won't be lost with this product. Genovation's Parallel Game Port is available now for \$45. For more information, call (714) 833-3355.

The Notebook Gameport from Colorado Spectrum enables joystick and mouse connection through a laptop's serial port. A disk is included with a joystick driver; installation is painless. The Notebook Gameport is supported by F-15 Strike Eagle III, X-Wing. Microsoft Flight Simulator 4.0. Mig-29 and Falcon 3.0 Support for other games is expected in the near future. including Aces Over Europe, Speed Racey, World Circuit, Wing Commander, Strike

Commander, and others. Colorado Spectrum's Notebook Gameport is available for a suggested tetail price of \$49.95. For more information, call (303) 225-6929.

hose unimpressed by the video quality of current multimedia products should take a look at Sigma Design's ReelMagic card. The card attaches to a video card's feature connector and will allow earners to view MPEG video at 30 frames per second at full screen resolution. whether on a 386-16MHz ot a hot-rod 486. In a demonstration of the hardware, CGW saw a Bon Jovi video playing as clearly and smoothly as on MTV, with CD-quality sound. The playback program ran in Windows, and the CD was playing off of a single speed CD-ROM drive.

ReelMagic achieves this incredible performance by doing MPEG video decomptession on its own on-board processor. The processor churns away at the video decompression independently from the computet's processor. Even on a single speed CD-ROM, the result is high quality video without the annoying drive-access pauses associated with

next generation product.

current CD-ROM titles The RedMagic card also incorporates 16-bit sound with OPL-2 FM synthesis, making it Sound Blaster and Ad Lib compatible. Sigma Design plans to incorporate the OPL-3 in their

Many multimedia game publishers who have had to degrade the quality of their video to deal with cuttent hardware limitations are very excited about the card. Access, Interplay, Psygnosis, Readysoft, Sierra and Trilobyte, among others, are currently developing titles that will take advantage of the card's capabilities. Interplay's Lord of The Rings CD-ROM, featuring footage from the Ralph Bakshi film, and Trilobyte's

sequel to The Seventh Guest, The Eleventh Hour, will both feature MPEG video footage. A special version of Activision's Return to Zork will be packaged with the initial release of the board. As it is based on the MPEG video standard, the

catd with be compatible with an upcoming VideoCD standard. The standard will allow movies to be played from a standard CD-ROM. With the current compression algorithms, 74 minutes of S-VHS

video and CD-quality audio can be packed onto one standard silver platter. Look for the ReelMarie card this holiday season at a suggested list price of \$449. Sigma Designs can be reached at (800) 845-8086.

Commodore Puts In Its 32-Bits Worth

his Septembet's World of Commodore Amiga show in Pasadena, CA saw the unveiling of Commodore's Amiga CD32. In their traditional low key fashion, Commodore quietly introduced its new saming console, scheduled for US distribution in November. But don't expect to run down to your local Toys-R-Us and pick one up in time for the holidays. The limited holiday season distribution will only target key cities; mass distribution will not begin until Januaty.

Commodore's Amiga CD32 is the first 32-bit game console available to consumers, and the only one currently employing a double-speed CD-ROM drive. Retailing for \$399, the Amiga CD32 also debuts several hundred dollars below the 3DO and the laguar with CD drive

A CD-only gaming platform, the CD32 provides no cartridge slot. Based on an Amiga 1200, the CD32 employs a 14MHz 68EC020 Mototols processor, 2MB 32-bit RAM: custom processors for video, graphics and sound; and a double-speed CD-ROM drive. Outputs allow for connection to NTSC composite color, S-VHS and standard RF modulated TVs, plus steteo headphones and stereo audio jacks. The custom graphic chips allow 256,000 colors to be displayed at once, with an expansion

bus provided for an MPEG-1 full-motion video module (available by year end for about \$200). An 11-burton controller fills out the package. Supported are standard audio CD, CD+G

and the new VideoCD standard for movies on compact disc.

Third party support is provided for system expansion with poets for two game controllers/joysticks, a serial

port, local and video bus connectors and several auxiliary ports. Inevitably, hardware addons will soon appear (mice, controllers, memory cards, keyboards and virtual reality headsets), provided the CD32 gains its nec-

A significant amount of software will be available immediately. Limited compatibility with CDTV. Commodore's earlier CDbased machine, offers existing titles that will play in the CD32, including a mix of 24 games and educational programs. Many

essary market penetration

products) are being converted for the new console, too. As far as new CD specific titles go, several game developers are hard at work producing games designed to exploit the CD32's capabilities. These are, among

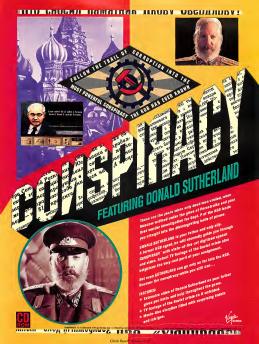
others, Maxis, Ocean, Psygnosis and Virgin. Look for Jurassic Park, Zool 2, Directs. Microcosm, Defender of the Crown 2. Done and SimCity in the upcoming

months Will CD32 Succeed? As with each of the new sys tems ready to emerge (3DO, CD32 and Jaguar), the ques-tion of the CD32's future remains open. If Commodore sticks to their traditional mar-

keting plan (of stealth-like, atrophic advertising), they could deliver their new gaming machine stillborn. Yet, as it stands, the CD32 has a good chance of setting an early lion's share of the 32-bit and beyond console game market. It's certainly the most cost effective alternative at present, and the most expandable console device to arrive thus far. For more information, contact Commodote Business Machines, Inc., 1200 Wilson Drive, West

Chester PA 19382, (215) 431-9100, paw

Amiga computer titles (from floppy-based Computer Gaming World Page 12





Between Dark And Daylight

Gabriel Knight Explores The Shades of Gray

by Johnny L. Wilson

If it is fall of contrasts light and darkness good and cell, pleasure and painmost of as would need to the contract most for a would perfer to ficts on the point would not be a strategive without the point would not be a strategive without the regaintee coars them in relief. Stear's Gabriel Rogies. Sun of the Father takes relously the anapposition of the contrasting elements, strategies between light and darkness, good and cell, love and betrayal. From color pakete to soundrack, budgeound suny to paralle within the contract of this dislective.

In other words, Gabriel Knight is that ratity in computer games, a work that is artistic enough to convey a message and present realsrie characters so that the player really cares. It is more of a vicarious experience than it is intellectual exercise. The puzzles are integtated into the story line so effectively that the gamer genuinely feels like he or she is discovcring more of the story, rather than jumping through a series of mental hoops to get to the next chapter. The conversation branches fearure so much variety and so much characterization that one feels that there are authentic characters rather than game constructs in the story. The dream sequences that advance the story are psychologically consistent with the way our minds symbolize the problems with which our subconscious wrestles in sleep.

For Mature Audiences Especially

It is the kind of dream that causes stomach muscles to contract, pulling one into a sitting position from out of a restful sleep. The bonfire boils menacingly in the mind's eye. The leopard costume of the pricases blends the human and creature together, evoking the primitive, the dangerous and the sensual. Fersignation and grainess accorn the malve drumbeau, beating sathly in spre with the total control of the control of t

Such is the dream sequence that opens Sicrea's Gabriel Knight: Sins of the Father. It was the first time I've actually experienced fear when viewing a computer game and that's because the designer understands where real horror exists-within the human mind. Jane Jensen, co-designer of King's Quest VI and the designer of Gabriel Knieht understands horror. Shirley lackson. Anne Rice and Stephen King are her inspiration. These novelists should be proud of their admirer's creation. It is a study in contrasts, a fascinating and, at times, frightening tale. Indeed, there is a possible cameo in which an Anne Rice character may apnear at Napoleon House (a location used on an actual restaurant in New Orleans)

As Gabriel explores the immediate problem, the ritualistic voodoo murdets in New Orleans, he discovers that his entire family has had a checkered past, images of slavery, prejudice, supersistion and hypocrisy blend together in the background story, a tale where betrain conquers love. Fortunately, in the midst of the psychological horror implicit in the game, Gabriel has the opportunity to teverse the deeds of the past.

Gabriel Kinghri is an exceptional blend of art, game and understanding, it is for manuferand audiences for all the right reasons. It does nonuse frivelous modify, grantious violence or abrasive language to parter this reputation. Rather, it offers an adult and refreshing perspective on the characters and situations within the game. Take, for example, the character of Gabriel himself. Gabriel is a bibliotuck the control of the characters and situations to write a decrease now. As such, he unfolds as the kind of person who is willing to 'use' people. Convenzations reveal





Sneak Previews offer early coverage of games still under development.

objects one definitely gets the feeling that the docun't mind being inconsiderate in the tasles to which he puts his lovely assistant, and he docun't even consider the risks the tasks with Detective Moseley's career (the supporting cast member who supplies him with official police information). As the realuric charactes confront very difficult choices, one realiests the mature nature of the story. Before the gune is over, the character may be well on his



way to a new career with new understanding, and the matute gamet may have more sophisticated perceptions of what love and sacrifice mean. The less matute will simply not get it.

The graphics underscore the entire theme of the same because the artists have used dark palettes for most of the backgrounds, enabling the use of numetous styles of light sources to illuminate the scenes. These tun the gamus from bonfires and torches through street lamps and refracted light. The theme is also visually enhanced by icon systems (the snake, the dragon, the medallion) which recur in unexpected places and implicitly remind the gamer of the quest itself. Further, the graphic artists on the game are aficionados of graphic novels, so they advance some of the story with transition screens resembling pages found in higher quality works of this nature. This, along with the talking profiles during the conversations and animated sequences (dreams and other free-running events).





breaks away from the familiar Sierra look and offers a nice change of pace. The music is also thoughtfully inte-

grated into the game. Bob Flolmes is the primary composer and has a theory concetning scene-specific compositions. Each room in the same will have a specific theme, as will each of the free-running animated sequences. For example, Holmes will use plano instrumentation to catch the light side of New Orleans. but strings and pipe organ instrumentation in a requiem style for the scenes that emphasize darkness. In the dream sequences, there are lots of percussion. particularly timpani. Holmes gets tremendous assistance in the sound catefrom professional percussionist. Ornheus, who not only orchestrates the percussion and rhythm aspects of many of the pieces, but is a master of sound effects, as well. The floopy disk version of the game will be faitly tich in sound effects, but the CD version may well be the most sound

effect-intense game product yet.

Finally, the cure in which he thome of the game is integrated with the substance can be illustrated by considering the casting of voice cattent for the CD version of Gabriel Knight. Tim Curry of Rody Harm Pleature. Show Inter well play the part of Gabriel. Michael Donn of Saw Trier. The Carterian will play the plant Longituse television star Iffern Zimulstur, I. will play Wildigma, Mark Hamill will play Woldigma, Mark Hamill will play Woldigma, Grant of the television series Row will make the William Will

The metrine is tarber rypical for the Sierra stronbasted system, though it does offer some new features to enhance the conversational aspect of the game and a graphic look consistent with the 60 New Orleans setting. There isn't any revolutionary on the continuous setting, and the strong of the s

around a remarkably well-rounded design. The game itself is divided into various days with a series of Must Do's which have to be completed before the game will advance. This keeps the pacing taut and the frustration level down.

There Is Nothing Like A Jane

The most refreshing aspect of the game, however, must be the marchine perspective which Jane Jensen brings to the perspective which Jane Jensen brings to to the things to the things that the strength of a protagonatt, she injects a fair share of of humanous needles into any mule place to gap, but she brings the strength of a people-oriented way of leaking at your learns. Much of the game compliasises conversations. Jennen says that strength of this root is the fact that strength of this root is the fact that seames can below as much or as little as





they want from the detailed background and subplots of the story in interactive conversation mode. These are not simply conversation trees built off key words that exist simply to advance the story. The convetsations are real attempts to entich the concept of character in a computer same. For example, one can insult Moseley and flirt with Malia (the femme farale, lady of mystery), as well as ask onestions. As Jensen observes, the interactive apptoach to storytelling is ideal because one can fit in a lot of marerial that would have to be trimmed from a more linear approach because of pacing. Now, the gamer decides how much of the exposition will be unveiled at a given time.

As in the best fiction writing, the character came to have a life of their own during the development of the game. There was a time when the plot required Gabriel's friend Moseley to the lalled. Yet, as the concessation were written and Gabriel's schröniship with Moseley became more impair to the story, immen electrol to keep him alive. One of the characters was to real that the used the same large and the story of the characters was to real that the used the same large. Jack also quickly change the nature of the character after socing the real-life nature of the character after socing the real-life nature.

We like that. Art that imitates life is art that is relevant for those who enjoy living. Gabriel Knight: Sin of the Father stands a chance to be the kind of story we'll never forget, It certainly may prove a point as to whether games merely want new technology or whether they want an in-depth setting/story to explore. Gabriel Knight certainly exceeds the standard in the latter. Con-



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the twisted edge of cinemagraphic entertainment, Westwood Studios has designed more puzzles and gameplay in the first few chapters of

The Hand of Fate



than in all of





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Grasp The Hand of Fate and kiss conventional logic goodbyc.



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Heechee Phone Home

The Legend Lives On In Gateway II: Homeworld

by Paul C. Schuytema

at starts out as a relaxing morning in 2112 AD San Francisco, sipping a little ioe as you peruse the newsfax reports on the Phoenix cult, turns into an all-our sprint for your life. You thought that was all behind you; you have 50 million in the bank, a nice condo with a private elevator. and the smug confidence of one who has saved the world. Now, an alien artifact many kilometets long has appeared at the edge of the solar system, whipping the Assassin-loving Phoenix cult into a frenzy and forcing the United Nations into around-the-clock planning sessions...and now they want your help. Just as you begin to think it over, an anonymous informer tells you that you are the next tureer for a Phoenix cult hit squad, and they're making their way to your condo right



In Garany, Legad's first offering based on the Hugo- and Nebula-winning hard science fiction of Frederick Pobl. Earth was blessed with the discovery of a space station left opinion for the station, called Garavoy, was a creasure over of high-results of the station of the control of the station of the stat

starships in perfect condition, but also evidence of the Assassins, a race of aliens whose hobby was hunting and destroying any civilization that had made the technological jump into faster-than-light travel.

Gateoup followed the player on a series of prospecting missions in the aucient Peter ships, and finally on a mission to set up a gainer, multi-plaser serambling device, aimed as obscuring the entire Milly Way from harstain semon. Hermowork Leganic Stasains semon. Hermowork Leganic Staganic based on Pobl's Heechee suga, take up where Gateoup left of Hostowork in not taken directly from one of Pobls works, and of the gire box, or the game is a rich and fascinating stooy which maintains the proper feel of Pobl's original fiction.

Homemorld is an adventure game in which the player takes on the role of the story's protagonist, floring from an initial assessination attempt and falling healtong into a sweeping, galaxy-wide story centered on the mysterious attilact which has appeared near Pluto. Is it a Heechee ship, over half a million years old, or it it a tool of the Assessins,

coming to wipe out the tace?

Homeworld, with its rich prose and advanced input purser, feels like an extension of the old Infocom text-only

games, even though it presents the player with crisp, Super VGA graphies. The game screen is divided up into a number of windows that provide access to a movement compass, a scrolling list of action verbs, a list of object nouns (essentially an inventory list of what the player is cartring and what is in the immediate vicinity), a text box for descriptions, and a small window where the first-person graphics are displayed. The interface is one of the most unusual I've

The interface is one of the most unusual I've come across in today's world of "icons everywhere," and it is at once a boon and a bane. The scrolling windows and "traditional" text



Just 1 where the payer to assemble clear, but incredibly detailed actions, and pulling the verbs from a scrolling list ends the old-time "command not understood" headsche of text adventures. On the other hand, the interface is rather clunky, requiring the player to scroll through a long list of verbs to see if one figs, with no easy way to switch back and forth, mid-command, between mouse selec-

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tion and ryping. To my mind, the interface feels like a development tool, an interface used by designers to test the game rather than a polished and ergonomic finished product. It could be that I am just jaded from playing countless games with less imposing interfaces that don't dominate three-quarters of the game screen.

By blending the use of a first-person graphic with a text description, Legend has hit on a way to set the most information possible to the player. The graphics are static "slides" of what the character sees, and objects disappear from the scene when they are taken, but there is no animation in the standard interface. Each time the character enters a new locale, a new slide is presented along with a text description. The player can click the mouse on the graphic window to pull up a text description of the various obivers, and a double click will serve as a "take" command, placing the object in the character's inventory. While the command interface

feels awkward to me, I enjoyed the picture/text combination used to present the game's data. I truly felt that I was immersed in a rich, complex world in which even the simplest observations, such as examining a leaf or a robot arm, yielded a detailed and complex description.

While the graphic 'alided' are static, the guine does provide some gongeous cut-scene animations and scrolling para scroes better high panceams. Unfortunately, it's obvious that several different approaches were taken to restlet the windows across and animations, resulting no a lack of continuity. An example is a prop balast may passe. The clear list workefful, but here, when we see a 3-D animation of the probe king highing, only by context dowe recognize it as the same ship: the color, shape and lines are all different.

The heart of Homeworld is its prose, and there are two things to note about its first, the detail and depth of the game truly shows in the multitude of objects the player can explore and examine, and never once did I examine something only to receive a one line "you see a bow" or "you see a box" tesponse. Every time something new appears, the de-

scription is intelligent and rich, and even the simplest objects have color, texture and

weight On the other hand, it is obvious that the text wasn't written by Pohl, or a professional writer for that matter. While I was hardpressed to find any technical ettors, and while the descriptions were incredibly rich, the prose still had an amateurish feel to it. The anguage was often "chatty," and dialogue phrases like "What do I do when I get the stuff" didn't seem to fit the proper tone for a character conversing with an emissary from an ancient and highly intelligent race. The descriptions of the various alien lifeforms felt slightly ethnocentric, with phrases such as "aliens with beady eyes" belying the awe of discovering a new species. That type of flippancy goes against the grain of the hard science fiction of Pohl and brings the grade level of the game down a few notches. It is interesting to note, though, that this consistent flaw in the text of the game relates mostly to



encounters with fiving organisms. The "hard each" of the game, the computers, alien interfaces and robots, are all described to the utmost detail, and the "pseudo-science" of the game presents as with a wealth of decided computer teadouts and measurements. Probably the best advice I can give to the prose authors of the game is to pick up a copy of Onon Scott Card's

Characters & Viruspoint, since they have milled the inanimate down par.

This character problem spills over to the player as well. I feat as if my player was not an actual individual, but more of a moving





sonality acem to be entirely lost from the central consciousness. When he (I assume he is a lie, only because I am) is catapulted out into space, there is no sense of hesitation, no sense of fear or regper in heinig forced out of one's home and life, and most importantly, no sense of new or curiosity when the character encounters the many amazing objects and creatures in the same. A Case in point is when

the character runs into a robotic spider who has a penchant for sawing open human skulls while the victim is still alive; there is no sense of the fear, the horrendous fear the character must feel when encountering this creature while trapped in an alien environment.

As far as general play goos, Homesourid is a sectice fiction lover's dream come rune. While! may have my problems with the genne, I fiken the expericence to participating in a good, and "There is a lorg going on in Homenworld that made me stop and think, and times when I just modeder my head and said "cood." The plot is fairly linear, in which the player moves from one pursistantions and gather intelligence, and the puzzles are nor that difficult, they

while the puzzles are not that difficult, they do requite resourceful thinking. Homeworld comes packaged with a hint book, which is a great idea. More games

should have included hint books, since most players will "slam into the wall" at least not players will "slam into the wall" at least not cor rwice in every adventure game, and having a well laid out hint book will provide the answer without breaking the thythm of play, or incurring the nasty expense of a 900 number hint line.

For a die-hard sci-ff gamer, this game will provide many nights of wondrous enterrainment. My complaints, while significant, do not destroy the character of the game; it is still quite an achievement. Homesord has the feel of a good sci-fi novel, with all of the pleasures of exploration and wonder that curling up with a good book provides, and the "Into-

with a good book provides, and the "Infocom-esque" feel of the interface is pleasantly nostalgic. When you sit down to play Homeworld, make sure you have a cozy chair and a bowl of pretzels, because you're likely to be "in there" for quite a while. craw

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the Terry Brooks movels and Severa Spieldorg's Him. Serra's Kipi's Quest aphabor's Him. Serra's Kipi's Quest and the parase are poolsably beyond criticism as the property of the property of

That said, there is a good deal about the CD-ROM edition of King's Quest VI to reccommend it even to gamers who would not ordinarily pick up a King's Quest game. If King's Quest is the vanilla ice cream of computer games, at least this particular scnop



comes with some interesting toppings, such as the by-now-well-known introductory cartoon in which the becoding, hormonal Prince
Alexander goes off on a sea vayage in search
of his lost Cassima and finds, instead, shipweek, lurnigue and danger. This impressively
rendered bit of computer cinema may be to
laughable in terms of drama, but visually it's
incemparable—not quite worth the price of
admission, but or admission of the prince of the solution of the price of
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Of course, the cursoon is a holdover from the original edition, as are the pare's no-yiline and all is process. When the CLI display the process of the curson of the curs

V.T.) The voice acrors pressed into service bere are much stronger than the amateur crew Sierra assembled for King's Queet V, though one still has the sense that they are trying a little non-hard. Sierra bosses of a cast of "internationally famous acrors" but neglects to name even one players are critifed, I think, to a measure of cynicism on this point. The partator sounds like the fellow who.

narrated every grammar school Elmatrip ever made, over-emphasizing all the goings-on in an awed, heathed voice. The actor who reade Prince Alex's lines was clearly inspired by Disney Elms from the "Escape to Witch Mountain" era. Everyone breathes too match and speaks with too many exclassation points. But so what? Kids will love it and indulgent adults won't mind.

In all other respons the soundmack is fine, accept for the old daim Siera makes that it is coupled with a "evolutionary, patented its coupled with a "evolutionary, patented lip-synching acchanology." The technology may be patented, and it may even be revolutionary, but it's not lip-synching, Act leas half the time a character speaks, the voice goes one way and the lips go anothe. Still, the voices are solid and the graphics are good; the fact that the two are not perfectly coordinated its unlikely to send gamers back to the store clamoring for a refund.

A word or two about the game's plot is necessary, I suppose—but that's all, surprise anything more will only expose that surprise anything more will only expose this suscyline. Through the use of a magic report of the surprise process and collecting trialsest that will help him overcome obstances. Quest are doded out in the most heavy-handed way imaginable [1] will give you the general poor of the property of the surprise property of the surp

rarer," "I will give you the rate book if you bring me a complete sentence," "I will give you back your ring if you bring me something of equal value"), yet many gamers will find this straightforward approach reassuring.

The overriding goal of the game is for Alex to rescue Princess Cassima from the evil Vizier Al-Hazared, who will otherwise take a cue from Prince of Persia and marry her against her will. Note, however, that unlike Prince of Persas, King i Quot VII in no set in a world of selenticus evil. Though Alex has many opportunities to persia, it is clear throughout that he has washed sebers in a latily annocure transpay land. Nor only does altily more transpay land. Nor only does cabbinges, and susy, talking nicks, it also in todayes the developer to such mythical creatures.



as an honest pawnshop owner and a sea captain who, though nominally a rogue, wasrhagsodic over how "pure" the princess is. I kept waiting to meet a polite New York cabbic or a truthful politician around the next bend.

It should go without styling that players exclining opionis thoughted, mind-bending, puzzles, or complex characters ought to look chewhere. King? Jeant VI is a hearthy inoffernive game full of light touches and not a great deal cite. However, gamen who enjoy light touches will find that free games pull them off with as much game as King? Quar VI. This is not exactly the highest posice a game could recover, but, by all sugar, it is the game could recover, but, by all sugar, it is the property of the property of the property of the aprire. For plain vanilla, King? Quar VI on CD-FROM is about a round in texts of



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Lands of Lore Doesn't Look Back

Westwood's New RPG Breaks With Tradition In Character Creation, Spellcasting and Gaining Experience

From the folks who brought us Eye of the Holodor (EOB) and Legend of Darkmoon, Westwood Studios new Lands of Lore offers some familiat features to players of those eatlier games. But Lands of Lare (LOL) also breaks new ground in a number of pleasandy surprising ways.



The player's mission is to seek our and dearning the will have Scotis, who has the ability to change her form at will. She tried to wipe out King Richard of Gladstone, who survived the attack, but was left in rather bad shape. Most of your quest involves finding a cute for Richard, and then hunting down and terminating Scotia with extreme periodice.

This makes the game a fairly linear one, with the group going from one location to the next in a pre-determined order. However, the structure is open-ended enough so that you can backtrack to most of the major areas, which may be necessary if your missed something important in one of them.

Interaction with other characters is limited, as with the EOB series, the focus is more on hack it shall and puzzle-solving than anything else. Still, there are some people around, and they give the world a bit more depth, unlike the lifetess sewers of Waterdeep and the unnelse to Darkmoon Temple. A few outdoor areas and a town add realisy to the world as well.

Graphically, the game is a step up from EOR. The detail, especially in facial close-ups, is finer. The animation is good, spell effects have been imptoned with interesting visuals (my favorite is the Mist of Doorn/Death Wand), and overall, Lands of Lore has a brighter appearance than previous games. The outdoors do need some work, however. When looked at sideways, trees and related scenery to have a 2-D appearance.

Happily, feeding your party is not a problem in this game. You can get on with your mission without having to fill up your inventory with supplies, or worrying about starvation. Considering how others the party will need to test up and testore themselves, this was a good design decision.

Since this is an original game, nor based on Adsumed Dangeous & Dragons, the experience system and character creation are quite different from EOB. In fact, you do not create a character at all. Instead, you choose one of four pre-created characters (all makes, also) to be your hero for the duration.

Each comes with three skills: fighting, magic and thiving. These skills increase as they are used. The more you fight, the better a fighter you become; the more you cast spells, the better a mage you become. In this regard, the game is closer to Dungson Meater, which used the same system. It is a much more sensible way of handling ability gains than giving improvements after X' number of experience points.

You do not, in fact, ever see any experience points at all, which is a pleasant change from most CRPGs. Of course, they exist under the surface, but the display only shows three bar graphs that chart each character's progress in the three abilities. This helps to keep the focus on "kearning by doing," rather than trying to reach some numerical figure.

In another break from tradition, there are no attributes like strength, intelligence, desterity and so on. You see only four sauss the character's hit points, which go up with fighter ability; magic points, which increase with magic ability; might, which varies according to the weapon equipped; and armoprotection, which changes depending on the types of atmot worn.

Going even further from the well-wotn rux. Weatwood has stripped magic down to the bare essentials. There are canciby seven spells in the game. Spark, Heal, Freeze, Lightning, Fireball, Hand of Fare and Mist of Doson. These spells are available (once found) to the entire party at all times. There are no spell through long last no reach the desired incurtation, and no need to give up a weapon or shield to cast a spell.



need. Most games burden the player with 30 of the player with 30 of the player. On the advantage, For instance, AD-670 has Care Light Wounds, Care Strict Newson's Care Citical Wounds, Care Citical Wounds, Care Citical Wounds and Heal, All of those do exactly the same thing, except at increasing levels of effect. The single Heal spell in Lands of Jane replaces all of these and achieves the same results by using power levels, which go from 1 to 4. The highes the level, the more potent the custing.

The only thing missing in this otherwise estimable system is a protective spell or two

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a rather surprising omission, in fact. Some form of damage reduction or protection against physical or magical attacks would really have been useful.

Ourside of this, the entire system has a pleasing simplicity that in no way detracts from the play of the game. It allows you to get on with it without having to worty about a lot of picky details. This is one instance where less really it more.



'Auto-mapping is available and is one of the best around.'

Inventory management follows along the same lines. Instead of each person lugging around his or her own items, all equipment size in a sliding pool, making it easy to review what you have. Only weapons and armor accually in hand or wom are not part of this pool. (Undocumented command: elicking pool. (Undocumented command: elicking on either survey of the property of the pool of the same pool of the property of

Auto-mapping is available and is one of the best around. While it cannot be sent to a printer and you can't write on it, the map will infalfully record all doess, stairs, buttons, chests, secret doess, pies, floor plates and special locations (theps, caws, e.c.), both indoors and out. No longer do you have to sentinize every wall for a button or switch, or fill up graph paper with yout own hand-drawn categorpals. The map is also serol-lible, allowing you to look back at any time at any location previously visited.

Most of the monsets in Lands of Lore are new, original and full of little surprises. Some can melt armor; others are "thumpers," making the ground shake and thereby disarming everyone (naspy); and there's one type that can stun you with a single blow. Always be careful when coming up against something

you haven't seen before.

The party itself will never have more than three people; for a good chunk of the game, it will consist of one or two. Your hero starts out alone and a little later picks up Timothy, who stays for a short while. He is replaced by Baccana, a four-armed wonder who does stay for the duration (so it's okeay to give him some of the good stuff). Much later, you also pick

up Paulson, and he too remains with you to

Asyon can see, Lands of Law has several very good features. But, it also has a few that are more as good. Combat, for example, has not improved march, if a tall, store the 2019 series in gloon of the 100 few for the 100 fe

Fighting tactics seemed more limited than in the EMB series; the two most popular methods, backing up and thip 'n slide (slob known as the Dance of Death) usually did not work too well here. Many opponents have futures erates of their own, to backing up to flight from slar just gives them the classes on htry one with missiles or up the Dance of the control of the property of the classes of the control of the

(when you have the room) a poor choice. Slip and slidchiring monates did not fate any better in combat. Quite a few of the bostiles moved rather quickly, and there often want't time to hit and run. Further, in many areas, the opponents come in large groups of five, six or more, and waltzing around is a good way to become surrounded (and dead) in a very short time.

When crittets gang up on you, expect some unusually difficult fights. After taking our the first two or these, you often have to run away quickly to find a safe spot to rest up and restore the purry, because everyone is in bad shape and our of spell power. While there are potions to testore this and spell points, they are quickly exhausted in heavy fighting, leave

ing you with little or nothing for later.

A few situations like this are acceptable, but
Lands of Loresports too many of them, adding
unnocessary flustration to the game. Lots of
monsters is one thing—lots of them coming
at once from different sides is quite another.

Related to combat, there is one segment of the game that ought never to have been in there. Before you enter Scotis's castle, you come upon two nees, the Kooks and the Knowles, who are at was with each other. The reasons for their spar is never given. Regardless, you are forced to choose to fight for one side or the other there is no way out of it and no way to bring peace. With nothing to go on, more players will likely must their choice based on expediency: whichever race they find easier to slill is the one they'll go after.

This is disturbing for several reasons. First, it has nothing whatever to do with Scotis, not does it advance the plot in any way. Scond, this situation is forced on you, with no alternative. Third, and wont of all, you are committing genecide, wiping out a race for no reason other than to get on with your own business. Why Westwood felt it necessary to

include such an irrelevant and outrageous activity is a mystery, but we will hope that they don't do it again.

A sore point of a different kind is the plethore of fancy weapons in the game. Everyone likes Neat terms, but we also like to know something about them. There are many named weapons here: Long Sword Entropy, Valkyric Crosshow, Great Axe Master, Trident Mandhle, Rapier Talon, Mace Thumper and Halberd Widow, to name only a few.

per and 1 June of w stow, to name only a characteristic what is often diffiwith a single per sing

There isn't any way to find out for sure, either. The game has no "identify" spell and no one who can tell you about the term. There is a wirch doctor in the awamp who says be can tell you about objects for a price, but that it just so much fluff. I showed him the Entropy Swend, paid 50 crowns, and he e-marks, "Ah yes, that is the Long Sword Entropy." End of identification. Wonderful.



'Most of the monsters in Lands of Lore are new and original.'

When fancy items, especially named weapons, appear in a game, there must also be some method for determining what, if any, special properties they have. It isn't enough to provide the things players need a basis for making intelligent choices about which weapons to keep and which to distand. Going only by the might armor protection provided by the item may not be the best course.

Overall, Lands of Lore is a better-than-average game of this type. It does have some weak points and clasign flaws which need to be cleaned up in future products. Still, the improved game engine and graphics, and the move toward attentified play make it a game worth playing, especially if you enjoyed the first row folk adventures.

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Tips For The Tillerman

Warning: Scorpia's game solving wit cuts to the quick! Among her general hints there may be specific solutions lying in wait. Visit her lair with care.

You have a choice of four characters at the start; of these, Concad and Ak'shel are the best. Conrad is well-balanced, just as he says, and will develop includy over the course of the game. Ak'shel is a dynamite range the starts with a lot of magic points, and frequent spell-casting will bring him up a couple

nizery over the colors of the gymer. An inter is a dynamide image we sense with a lar of mage, points, and frequent spell-easing will bring him up a couple of levels faster than anyone close. If you do take Adhel, remember that hit points only come with fighter levels and he sures off somewhat low in his points. After you've improved him a bit as a mage, sowth a reasond and have being do some fullying to be of him a bit as a mage, sowthat around and have being do some fullying to be

up.

The nutro-map is a valuable tool. Check it frequently to see if you've passed any wall buttons, switches or secret doors. There are a lot of these in Love. Be sure to save before you fool with them, as some are traps.

same to save before you took with them, as some one traps.

There are several times when you will have to drop down into piss (the Drancke cave, for one). When there seems to be nowhere the to go, take the down expects Damuge is abovay aminor, so undess someone is body inquired before the drop, the party should be oksy. Actually, everyone should be in good health before going down a hole, as monares are usually waining for

you.

Aside from weapons and armor, there are a number of objects in the game with obscure uses. Swarms are one-shoe weapons. Bezel cups both beal injured and cure poison. Ace of Obbrion intentions as a Max of Doost spell, and Ace of Infinity restores mappe points. To use such tiems or maps wands, pick up the object, hold in over a obstarcted statisk ions and night-ticks.

In the Upper Opinwood forest, inside one of the locked tree stumps, is the Valleyric Crossbow, probably the best missile weapon in the game. Note only does it shoot miniature fireballs, but frequent use of this weapon raises Rogue skill quickly...and I don't recall ever seeing anyone miss while using it. If you complete an area with keys remaining, you can dump them. Westwood individuals that some locks are harder to pick than others, and keys

are provided in case you can't get them open.

The early stages of the game are pretty straightforward. Be sure to take all the good stuff Timothy may have (such as his trapier) before you enter the throne room in Glasktone Keep. That's where Timothy leaves you, and you

need the good stuff more than he does.

It ion't necessary to buy anything at Buck's Skins before long, you'll have quite a collection of weapons just from exploring, fighting and opening chests. Besides, you need Roland's money to buy passage back to Glidstone.

The Darack caws are where things tract to get rough. The rat mus as may opponent, so try to light them in narmor comfoos where they can't going up on you are aroundat the party. New your long to every care around the party. New your long to the party of the party o

When you reach Opinwood, go over it thoroughly, but be careful—there are other things besides Ores furking about. Do not open the door leading into the mines until you have the green skull from Upper Opinwood.



The critters who live in the swamp have something you need, so find the chief as soon as you can. The Witch Doctor can help with the riddle scroll. The freeze spell is useful for getting around. There isn't much you can do about the swamp gas, sorry to say.

The Urbish mines are nasty, so take your time. The machine on level one must be fixed sooner or later. Be sure to pick up one red heart gem (dropped after a combat). You must leave here with Paulson in the party, as he has the Vaclen's Cube that can destroy Scotia's barrier. In the right circumstances, the cube can be duplicated endlessly, which will be very helpful in the Whate

Tower and Scoria's castle. Save the game and experiment a little. When you reach Yvel Forest, stick to the west side of the map Greater Oves are tunning around in the woods, and they are tough opponents. When you get to the city, be sure to go into all the bosses as many of them have useful items.

The White Tower is another rough place. On level one you have to deal with the Amerons. Most importantly, you have to reach Jana, the queen, who has a mystic key you need. Remember "rine for admittance." Close the two grates to stop slug creatures from appearing.

Level two has the flying one-eyed chickens that toss fireballs; if you see one coming, duck around a corner fast. They only use them from a distance, so you don't have to worty about being fried in hand-to-hand fishring.

Level three is the worst, being inhabited by ghosts. Use Vaelen's Cubes (very effective!) and emerald swords against them. The snakes are not affected by the cubes, and they can be deadly. Weapons work against them, but you have to be quick. Expect to take more change from snakes than anything else. From this level, you want the ivory key that opens the door on level one leading to the sublevel. The "faith door" is optional. Inside are two chester you can only open one. Save and try both to see which one you like better. In the Carwalk Coverns (after the big fight), check walls for hand marks and use the Dark Gauntlet on them. Go over the caverns thoroughly; you need two keys (one from the West and one from the North) to open the door leading to the Kowle/Xcob confrontation. These caverns are the last time you'll be needing the lantern, so you can dump any extra oil flasks when you're

I chose to fight the Xeobs, as they were easier. The Knowles seemed impervious to any spell below Fireball, were extremely hard to hit, and they were also thumpers, making the ground shake. This disarms and causes damage, too. Xoobs can dissolve armor, but were still easier to kill than Knowles. Both sides give you the same reward, so you might as well take the essier one.

Scotia's is a mean place, as you might expect. Level one has ghosts (to the cube) and flying axes (Freeze spell is good here). Level two has flying eves (can dissolve armor, kill these first) and scorpson-like critters who can stun. Level three has only giant tends, but they are thumpers. Fortunately, they do not regenerate and are gone forever once you kill them off. All other monsters do regenerate, so expect many combuts as you make your way around the castle.

Be wary of traps. You may find yourself in a place from which there is no escape except the Restore option. Don't go putting things into niches: you may never see them again (there is an exception to this on level three).

On level one, there is a section where you lose your automap. Don't pance The area you have to map (toom of pits and somners) is small, and the compass still works, just be patient and you'll get through this. The automap is restored when you reach level two.

You want to collect two figurines from level one, one from level two, and one from level three. Do NOT visit Scotts until after you have rescued Kine

At the final confrontation, only the whole truth can help you. You must stop Scotia from doing any transformations or you're done for. Once the Nother Mask has been neutralized, she can be leffled with weapons and spells (save a Guardian for faster results). Good luck! cow



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Strike Quickly Strike Hard

Tips and Tactics for Origin's Strike Commander

by Tom "KC" Basham

trike Commander mixes elements of a role-playing game and a combat flight Simulation to put the player in an action-packed, movie-like adventure. Because of the scripted nature of the missions, the player has a very well defined goal and must execute a linear sequence of intermediate accomplishments in order to realize it. Though somewhat constraining, Strike still grants its players considerable leeway in how they achieve these intermediate steps. Even though every Strike player has to complete the same soals in each mission, there is plenry of room for individual style to shine through,

Allocating Resources

Most mission briefings give the player very little information to work with. Vague details about the target are given, but no photo-graphs or mission profiles are discussed. Anticipated threats are mentioned in passing, but the playet is given no significant intelligence information. It's even difficult to know which weapons should be carried. Further, the squadron's tight budget makes it difficult to stockpile weapons. Weapons purchased immediately before a mission may deplete the Wildcars' bankroll while being insufficient or inappropriate for the planned mission



The element of surprise is an intended part of the game, but those looking for flight sim fidelity rather than shoot-em-up action may find the surprises frustrating. Therefore, prestrike recon patrols are usually called for. I generally save games after completing each mission, then proceed to the next mission, read the briefing, and fly the mission with default armaments. Since each

mission is identical every time it is played, this allows me to get a good idea of what I am up against. then restore the last saved game. buy the appropriate weapons, and execute the mission. Is this cheating? By Strike's rules, maybe. But remember: Strike hardly follows the real-world roles. A flight of F-16s would never attack a ground target without first going over the site in detail, noting enemy air defenses, and making some form of tactical decision on

how to deal with said defenses. Besides, there's an old fighter pilot saving: if you ain't cheating, you ain't trying.

Air-to-Air Combat

As another old saying goes: Use the right tool for the job. In the case of Strike Commander ait-to-air comhat, the right tool seems to be the AIM-9M missile. Of the four air-to-air weapons available in Strike (the AIM-91. AIM-9M. AIM-120, and 20mm cannon), the AIM-9M gives the best bang for the wargaming buck. Since Strike puts you in charge of the squadron's finances, maximizing available bang should be your top prior-

Why the AIM-9M? The AIM-9] is simply too unreliable. Although very cheap (in relative terms), its 6nm range, tear-aspect-only taracting restriction, and poor hit ratio makes for a very unattractive purchase. The AIM-120, although more reliable than the AIM-91, is the most expensive air-to-air missile at your disposal. At \$200,000 per unit, its 40nm range makes it ideal for long-range, BVR

(beyond visual range) intercepts. However BVR engagements never happen. Bandits will always appear out of thin air about 8nm away. just inside the 10nm tange of the AIM-9M.



Since the AIM-9M costs only \$60,000 per unit, has all-aspect targeting capability, and a teasonable hit rate, why waste an extra \$140,000 per potential kill using AM-RAAMs? The 20mm cannon is far cheaper than any missile (it's free, you never pay a dime for 20mm rounds), but due to the jetkiness of Strike's controls, many users find it extremely difficult to saddle up for a guns kill. Although it is possible, it takes practice, a steady hand and a fast computer.

AMRAAMs have only one advantage: you can put two of them on the inside wing pylon which will only carry one AIM-9M. By using both types, you can carry up to eight missiles ioto combat, but by using only the AIM-9M you can only carry six. It's a tradeoff. You carry the potential for two more kills (if all missiles perform perfectly), but it costs 280,000 extra dollars. If you're rolling in cash, then maybe it's worth it, but I found most campaigns to operate on extremely tight budgets, and the AIM-120's combat performance not good enough to warrant the extra expense.



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Air combat in Strike isn't too difficult if you know the secret; computer-controlled pilots rarely use the vertical. The AI loves horizontal turns and will crank high-g circles all day. Simple vertical maneuvers by the human will almost always confound the computer-controlled pilots. For example, if a MiG-21 slides in on your six and you just can't shake him no matter how many g's you pull in hard turns, try tolling out slightly and execute a barrel roll. As you pitch up, the bandit will nearly always overshoot, and you'll finish the roll by diving down into his six o'clock. Loops are also a great way to shake bandits.

Air-to-Ground Combat

Most missions are combination missions: fly to waypoint 1, engage fighters, proceed to waypoint 2, attack ground target, fly to waypoint 3, engage more fighters, etc. Since only a few mission failures (sometimes as few as perative to succeed on every sortie. This means the player has to be as proficient at bombing as dogfighting

In bang-for-the-back terms, the Mk 82 iron bomb is probably the best value for the Wildcars' dollar. These do a reasonable amount of damage, but require accurate bombing skills and overflight of the target. Most targets require multiple attack passes (always a bad idea in combat), and multiple passes over heavily defended tangets will almost certainly mean damage to your aircraft (and more money out of the Wildcats pocket).

In terms of effectiveness, the AGM-65 Mayerick is the clear winner of the day, Although it can't destroy some of the larger targets, it's deadly against vehicles, air defenses and small buildings. Being fire-andforget makes it especially useful. On the first pass at a given target, fire a battage of Mavericks at the air defense batteries. This clears the skies for subsequent passes and allows you to rain truckloads of Mk 82s down on the target with little risk to your aircraft. Mavericks aren't cheap, so they should be used sparingly to take out defenses, then followed by iron

bombs to take out the high value targets. The Target That Won't Die Sometimes it seems impossible to complete



letter, but still the mission was a failure. Anti runway missions are the most commonly cited example. Many times, pickling Durandals until the entire runway is annihilated won't complete an anti-runway mission. The key is to destroy some of the surrounding structures. After bombing a few extra buildings you'll get the familiar "Mission completed, let's head home" message. In some cases, direct hits on the nanway aren't even needed to complete an anti-runway mission. In one mission early in my career, all of my Durandals missed the runway, leaving me with only cannon and air-to-air missiles. I made several strafing passes on the surrounding buildings with the 20mm cannon. After destroying a handful of buildings I was told the mission was complete and to return to base! The moral of the story is: if you can't complete the mission, or miss with your primary weapon, don't give up! Strike seems to always give the player a second chance. row

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66 W ell, Danny, these Canucks are certainly a game bunch. Losers of their first seven games, tonight they're giving the powerful Canadiens all they can handle as they look for their first victory of

"That's right, Foster. An early first period marked by Stephan LeBeau looked as if it would stand up until little Cliffy Ronning jammed home a rebound at the midway juncture of the third to send we into this oversime "



"The crowd at the Coliseum is standing and roaring their approval as the referee sets set to drop the puck for this five minute overtime session, . . it's Ronning against Denis Savard on the face-off."

"Marouelli drops the puck and Ronning flips it quickly to Linden. Linden winds up and slams a long blast...IT'S INW ...HOLY TOLEDON THE CANUCKS HAVE WON THE GAME...THE CANUCKS HAVE WON THE GAMEN

Being a Vancouver Canuck fan for oh-somany years has, until recently, been an exercise in frustration. Since their 1970 inception and prior to the esteemed Pat Quinn regime, the Canucks' record has been anything but sparkling.

In the real world the Canucks' fortunes have begun to change, but on my computer they remain submerged in the basement of the Smythe Division standings. It is just nine games into the 93/94 season and, aside from this glorious home ice overtime triumph over

FIRST ROUND PICK

EA Recruits NHL Hockey From The Cartridge League

by Gordon Goble

"Les Habitants." the fans at Pacific Coliseum (or "Pacific Mausoleum" to we Vancouverites) have had little to celebrate

Although cutiously leading the league in penalty killing, the Canucks' real-life power play woes have been digitally intensified in this computerized league, and they currently sit 24th and dead last at a pitifully inepr 6, 1% success rating. Compare that to the 23rd place Hartford Whalers at 21%, and first place Ouebec at 49%, and the sad story becomes quite clear.

But the courageous Canucks will continue to strive forward (and pethaps win some tespectability through time and experience) for one key reason: the human master of this game is thoroughly addicted.

Electronic Arts has achieved with NHL Hockeya rare accomplishment in the tealm of team sport simulations—a playing envitonment that is flush with realism, excitement and ctedibility. Players do what players do. action unfolds as it should, and victory is a constant challenge. Most importantly, NHL Hockey may prompt one to foreet that he or she is in control of mere images on a computer screen, and not much, much more Licensed by both the National Hockey

League and the NHL Player's Association. NHL Hockey is far from foible-free, and these misgivings will be explored later, but the mafor elements work together in harmony to produce a cohesive product. Essentially, FA has taken the quick reflex action of the Sega Genesis/Super NES version of the same (NHLPA Hockey), added coaching and league management functions, thrown

in a whole lot of statistics, and allowed up to 24 human competitors (one for each team in the NHL as of 1993) to compete in

a full 84 eame season comes one and all, while a rwirl-

NHL Hockey is immediately endearing. As the program opens, a crystal clear voice-over by EA sports announcer Ron Barr wel-

ing puck sits on-screen, flashing glimpses of teal player animations on both front and backside. The letters "N," "H" and "L" are everywhere, the cursor used to access the pulldown "Windows" type menuing system is a bockey glove, and one is left with the impression that EA has snared no detail.

Following the opening ceremonies, one is plunked into Sports Central, the ptimary interface for accessing gameplay, updating statistics, and managing league transactions and play. Naturally, the first order of business is to leave the instruction manual on the floor and get into the same action as quickly as the whir of the hard drive will allow. NHL Hockey has an "exhibition game" mode for just such purposes. Pick a pair of likely candidates and



As the amiable Mt. Barr introduces tonight's game, a scouting report listing the various weaknesses and strengths of both teams appears on the screen. Elements such as goaltending, power play and defense are analyzed, and an overall ranking is displayed.

It is recommended that newcomers pick a NHL Hockey



1854 386 or lieters. VCA graphics. 2MB RAMEMS). 7MB band drive space supports Adults. Robinst and Sound

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powerhouse squad such as the Penguins or Canadiens, while offering Mr. Computer the lowly San Jose Sharks or Tampa Bay Lightening. NHL Hockey is anything but casy, and in the early stages any advantage is welcome.



Following, a pre-game diaply of line-up and scanetac softhic cub se altered if one whole, the final few arrains of the American or Crandian rancinal andrens are played, the appropriate billowing the flown, and the appropriate billowing the flown, and the concrete is underway, the player has one view the end of the rink, although when acrons of the rink, the scene pass with the Anna of Bechenda's Weyne Correst Photology will consider the contract of the rink of the rink

indicated with the effect of the continued and the effect of the continued and the control of the players at any piece moment (while this manner, but depressing Botton 1 will belief control to the skiter cutterfully closest to the control of the skiter cutterfully closest to the control of the skiter cutterfully closest to the control of the skiter cutterfully closest to the manually controlled Betton 1 is also used to make a pass, and flutton 2 to bifure 1 is also used to make a pass, and flutton 2 to bifure 1 is also used to reduce the control of the co

The pace of play is quick, and even the shoddiest of opposition will pass and sweep down the ice with remarkable precision. Early on, it behooves one to slow the play down when needed and get a solid grasp on passing without losing possession of the puck. Thankfully, there are no guaranteed set plays in NHL Hockey upon which one can always depend (as there seems to be in most team sport sims), and a full game with evenly marched opposition will tax the mind as much as the reflexes. Each athlete, team and game will have its own distinct flavor, and most players behave in much the same manner as their real life counterparts. Hockey fans may have the odd quibble with a specific artribute here and there, but overall, the Pavel Buses of the league are quick and deceptive, while the Bob Proberts are punishing and solid.

Speaking of Probert, there is no substitute for a crunching body check in both the real and digital rinks. Getting a perfect line on a puck-carrying opponent and then forcefully closing the deal will most often result in a momentous collision, complete with a resounding "OOF!" or "UGH!" and the appreciative cheers or mouns from the crowd. depending upon their allegiance. In some instances, a penalty may be called or opponent injuted, but that's the chances taken in such circumstances. For the most part, penalties are obvious, although the actual infractions are quite randomly assessed, and the controversy of fighting does not seem to be part of the NHL Hockey world. Sadly, one of the most nail-biring elements of real hockey, the penalty shot, seems to have been excluded entirely from this program.

Thoughtfully included in NHL Hockey however, are such nicetos as delayed peraldics and offsides, the ability to pull a goide at anytime for an extra stucker, referees that state with the players. There of the Camestace with the players, "There of the Cametality to choose specific power play and perturbation of the players, and the properties periods game state are disclosed, highligher timouther games shown, and an out-of sown scoreboard updates one on other happenings from around the knew.



A first moving sport like hockey is made for the instant relya, and NPII. Bodeyallows for 25 second segments. Replays can be viewed full speed or in also me, then saved if wished, but are categorized only by game time and due. Therefore, one cannot, for instance, access "That great play when Lemieux waltered around the entire Flyer team and popped it into the right corner," or even LEMWAITZ FIEP. When reliving incredible moments from the past, it may be hard to find the tight incredible moments from the past, it may be hard to find the tight incredible moments.

Adding to the visual faxs of NHL Hookpy an admirable audio selection, including musical selections and crowd-rousing drum beast such as the opening to Queen's "We Will Rock You'l during scoppages of play blaring increase, and all the appropriate thirds and the contract of the contract

Several pre-game options are available. Infractions such as icing and a two-line pass offside can be toggled on and off, and one can choose between manual vs. computer controlled personnel changes. Hockey parise will want to handle line changes themselves, and although keeping one's best players on the ice all night is a nice idea, even the game's superstars are human and will eventually rite. The energy level of current on-ice slatters is displayed on a small bar graph at the bottom of the screen, and the slet as to keep the best tallent involved in play until weariness begins to take a toll. Line changes are accomplished via a single keystroke, and this procedure couldn't be simpler.

couldn't be unspice.

couldn't be unspice.

Ogle hat been attained, experimental exhibition consens will undoubreally be shed for longue play, and WIH. Herdey provides a longue play, and WIH. Herdey provides a form of the contract of the

undate the latest stats on both players and teams, and if one shows considerable skill, a berth in the Stanley Cup Playoffs will be the reward. At any time during the season, the current team and individual leaders in a numbet of categories are at the ready, and this is helpful in determining who's doing what. After all, a forward with a lot of goals may be lacking in other areas, or a team (like the aforementioned Canucks) might get that much better with a little concentration on certain areas of their game, such as the power play. Individual trophies are also handed out at season finale, and judging by the level of competition in NHL Hockey, having one's own star forward snatch the Art Ross is certainly a feather in his or her cap. The bud news is that all this information will forever remain inside the computer, as no facilities have been allowed for printer connections



Electronic Arts' NHL Hockey offers both the frustration and the glory of professional bockey's highest level. Ar times, players will lose themselves in the simulation and feel they are in control of a teckwised NHL broadcast. It simultaneously purs you inside the boad of both coach and player...and that is an experience well worth the price of admission. tow



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those shoot-the-ship computer games. This is a universe full of people. Real people, online, working with other real people in real time: busily building their fortunes, planets...nay, empires. And they'd love to throw some work your way so you can do the same. Of course, there's a lot of bargaining, buying

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Symbols And Sorcery In The Madness of Rolling



by Maxwell Eden

he Madness of Roland, a CD-ROM based multimedia novella by Hyper-Bole Studios, offers a dynamic medium for interpreting the written word, while exposing the intriguing tapestry of medieval knights, sorcery and romance to an entirely new, computer literate and mature (rated R) audience

Combining an electronic book format with elements of a movie. The Madness of Roland is a pastiche of technology, interwoven with a rich use of language, classical works of art and contemporary images. Beginning with the siege of Patis in 778 AD by Muslim



medieval French levend of the paladin Roland, a knight in service to Charlemagne, king of the Franks.

The Muslims have surrounded Paris because they want tevenge against Roland, the "demon" knight who won the magic sword Durendal in a battle with the Saracens. This begs the question: If Dutendal was an enchanted weapon, how was it won over by Roland? Pethaps the sword magically trans-

fers its ownership to the more deserving warrior as it goes about its life of merry "Widowmaking," Speculation is what Roland is all about, and trying to determine what actually happened, and why, is a major part of the story's appeal. For example, Charle-

magne's account of why the Muslim's "really" laid siege to the city adds quite a different The Madness of spin to the story.

Primarily text-based, Roland is creatively embellished and specifically designed to take advantage of the mass storage capability of CD-ROM, featuring QuickTime video (which lets the Macintosh play back movies like a VCRI

original film and music, 256-color graphics, Monry Python and MTV-style animation, sound effects, plus character narration performed by actors-a technique that made the radio dramas of the '40s come alive

The opening title sequence is immediately gripping. A grating, lumbering noise of what could be a huge stone door slowly grinds open. Next, an ominous, war-like drumroll beats, setting the stage for passion, magic and madness.

The main screen displays finely rendered Tatot card icons for each chapter, and each chapter opening presents the reader with yet another set of individual Tarot cards, Each card represents a character and their distinct



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point of view, including those of Charlemagne, Roland, the enchantress Angelica, and even Roland's magic sword Durendal sort of a female Excalibur with a lust for Roland's hand.

Hearing of the character's desires, doubse and experiences, which often provide conficiting accounts of events, the reader facts and experiences, which often provide conficiting account of events, there are no consider. Presenting a dramatic account from different points of view has here done in chasel, thins turn. The Alexandria Quarter by Lawrence Lawrence and the reader to switch between character of the provided of the provided that the conficiency of the provided provided that the provided provided that the provided provided that the provided provided that the provided provide

Clicking on one of the Tarot icons begins a sequence of soroll-like pages that tell the story of the chosen character. Accompanying the text is a sound track with music, sound effects and actors reading their words as thy appear on the serce. Bordering each page is a larot toon of the other characters in the chapter, plus tools such as bookmarks, text searching functions, and a map showing just where the reader is in the story. A special finale awaits those who read each page of every chapter.

Every time a new chapter opens, the Tarot icons shuffle about the screen into new positions, as if a new hand of cards were being dealt and the outcome might somehow change this time around. As the actors read

the story aloed, colored text on the screen indicates different types of speech white-narration, blue-thoughts, comunes-speech by the narrator of that chapter, and green-words spoken to the narrator of the current chapter. The main text also includes key words or phrases that are boldfieed. Clicking on a key word freed. Clicking on a key word retrieves a pop-up hypercet link in the form of an explanation, a graphic or some amusing aside. With so many noethild in-

hancements to the tale, jumping about Multimedia Land can sometimes work against the reader. For example, it's easy to read absoled of the nation and start dicking on key words, an approach that interferes with the flow of comprehending the story. Reading on-screen text can also be tring; lissening to the narration is much more contextuning. With at least several bourse contextuning.

The Madness of Roland is a pastiche of technology, interwoven

with a rich use of language, classical works of art and contemporary images.

worth of scoryline, Roland is best experienced in small doses. Going through the story sereral times while paying attention to each multimedia facet separately allows the subtletics and richness of Roland to surface.

As each character reveals their own percep-

As each character reveals men own perceptions of events, the reader can skip from one character to another for comparison. Which character the reader encounters first can be meaningful since readers can be easily swaved—the dialog and actors are very

convincing, Roland's courage in defending Paris from the superior Muslim forces may sound hereic ann'l Clarkenague's version disputes not only the location of the battle, but calls into question Roland's level of intelligence. Of course, whose perception comes neutres the truth is anyone's guese. When Roland begins his spiral into darkness, readers can revisit the difference made and the cause of his decent into self-double grant lamace.



In addition to the different points of vice, there are two layers of commentary that enhance the dimension of the story. There is a small Moon toon found at the legitiming as adapter. Clicking the Sun foot being upon electric range of resunal commentary from Sun Tax, Carlos Casternels, Annis Mir and Organization of the Commentary from Sun Tax, Carlos Casternels, Annis Mir and Organization of the Commentary from Sun Tax, Carlos Casternels, Annis Mir and Organization of the Commentary from Sun Tax, Carlos Casternels, Annis Mir and Organization of the Commentary from Sun Tax, Carlos Casternels, Annis Mir and Casternels, Annis Mir and Casternels, Annis Mir and Casternels, Casternels, Annis Mir and Casternels, Casternels,

A complex, adult rale, Roland is thoughfully presented with protective ideas and images that make the production artistically compelling. Roland, however, is no more technically perfect than is the technology. Depending upon the computer model, availside RAM, and CD-ROM drive access peed, glickly. As of certeral strees operaters such as MacSpeaket by Monsert Design is a big blus in appreciating the audio segments.

In a marketplace known for pandering to the lowest common denominator and the almighty bottom line, the intellectually and emotionally simulating experience fishers provides stands out as an example of artistic integrity and vision. Reland work replace the concept of a traditional book or movie; it is an innovative multimed is from of expression, pioneeting the evolution of electronic faction.







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This Mech Is Made For Walker...

.. And That's Just What It'll Do In Psygnosis' Latest

by Jeff James



emi-up, with the player's Walker (looking much like a stetood-pumped Locust 'mech from FASA's Baulet'zeib) positioned on the right edge of the secten. This mechanical beast stomps into action with a unique birdlike pait terminiscent of a hungry Juosanie Park velocitaptor, swinging its head to face the location of the targeting custos.

The keyboard or joystick is used to move the Walkerfrom left to right, while the mouse is the ideal control device to move the tatestine cursor about the screen. A left-click of the mouse fires the cannons, while the right mouse-burron locks onto an enemy unit, directing cannon fire onto the target until it is destroyed. To mete out punishment, the Walker boosts a gruesome twosome of death dealing appliances: twin cannons which spew depleted-uranium tipped 30mm shells, able to shred through the toughest enemy armor. As a secondary weapon, the Walker spotts a pair of exceptionally large feet. Using what I call the "trampling two-step," the player's Walker can dash forward, squishing flat any





unfortunate enemy soldier who happens to be directly in the center of the Walker's path. Unfortunately, only a very narrow portion of the screen can be used for trampling, troops on the edges of the screen are immune to such

The premise for the Walkergameworld-as laid our in the brief introduction in the 10page instruction manual-is a murky setting that sounds like a bizarre cross between Dr. Who and The Terminator. The player must time-travel to four distinct time zones to battle the enemy. At the end of each level is a "boss" enemy that must be defeated to advance to the next time zone. The first level takes place in 1944 Berlin, where the player is assaulted by tanks, horse-drawn artillery. P-51 mustangs and other WW H-era military hardware. Next up is Los Angeles 2019 AD. where the player is pitted against hi-tech military hardwate suspiciously reminiscent of the Terminator films. Finally, the last two levels involve trips to the recent Petsian Gulf war and a final blast into the year 2420, respectively, to complete the same.

While each time zone has its own unique

military vehicles, one assailant is ever-present: the infantryman. These tiny troopers can be seen in each of the four levels, covering the game screen like insects and harassing the player with rifles, grenades and other handheld weaponry. Itonically, the tiny hordes of soldiers that the player must obliterate en mane scutry about the screen in Lemming-like fashion, racing to their inevitable doom. It's as if the programmers at DMA Design cracked under the sickening sweetness of their previous games, and the ensuing psychosis traded the altruistic bliss of Lemming salvation with a bloodthirsty desire to exterminate

anything under 20 pixels in height. This bloodthirsty seal extends to the digitized samples used in the game, with the pilot of the player's Walker occasionally shouting "Die, Scumbags!" after eliminating a particularly large batch of enemy soldiers.

Waller will run on any Amigu with as kast Mis G RAM, including the Amigu 1200 and 4000. Unfortunantly, Waller Octs on easy-to-trade drive inclusions, florting players to a decision of the Control of th



Fins of earliet Pyognotis action classics such as Mennes, Blood Vilmry and the Killing Game Show will find that Walker employs the same frenches created for mushon test darks as the classic test of the classic contraction of the classic contractation and the contraction of the classic contractation and the contraction of the classic contractation and the contraction of the classic classics. The classic classics contraction of the classics contraction of the classics classics contraction of the classics contract

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That's Even More Incredible!

Dynamix Develops More Devilish Puzzles

hu Ed Dille

lationships of kinetic and potential energy, though one need not be a physicist to appreciate these aspects of the game. The simplest example of the exchange of these energy forms as depicted in the game is provided via a fulcrum (see-saw) and two bowling balls. In addition to these types of energy transfet. players may also adopt some standard and

iddle: What do a bowling ball, a tram-poline and an alligator have in com-

Answer: They are all puzzle pieces in The Even More Incredible Machine. Anyone who has ever enjoyed the boatd

game Mouserrap, or delighted in Rube Goldberg type machines that go to extravagant lengths to accomplish a simple objective, will appreciate the effort that Dynamix has put into The Even More Incredible Machine (Even More). Even More is an extension of the original The Incredible Machine, offering 10 more playing pieces and considerably more chal-lenging puzzles. Whereas the original had 75 pre-generated brain teasers. Even More offers 160. As before, there is also a free form mode that will allow users to design and save their own puzzles.

The Scientific Method?

For those who have never played The Incredible Machine, some background is in otder. Even More adheres to the scientific principles of gravity and six density. The puzdes provided have preset values for these settings, which determine the physical behavior of the objects in the game, but usets of the

free form model can specify their own preferences. Gravity can be altered from normal to complete weightlessness, and atmospheric pressure, which determines air resistance, can vary from what one would experience on the bottom of the ocean to the vac-

uum of deep space. Even More also respects the re-

non-standard motive forces. For the conven-The Even More Incredible Mach





tional, there are electric generators, motors, solat panels and similar devices. For the more esoteric, machines may be powered by rats running in a case wheel or monkeys pedaling bicycles. The latter are motivated by a banana dangling in front of them, but the player must contrive a way of opening an intervening window blind to set them to start pedaling.

Brainstorming

Every puzzle begins with a stated goal (such as "make all five guns go off"), a preset arrangement of pieces on the screen which cannot be moved, and several pieces in a box. The player's goal is to find the proper arrangement of the pieces in conjunction with the existing arrangement to accomplish the objective. Sometimes, more objects than are necessary are provided, such that the "red berring" factor may come into play. Also, the more so-

phisticated puzzles require the user not only to find the proper arrangement of the pieces. but to employ elements of timing as well. Many of the early puzzles are designed to

allow players to learn the functions of different objects without having to consult the manual. The role of pulleys in translating the direction of pull for topes may seem apparent to most, but some younger players will appreciate the puzzles which illustrate them. Exclamations of "OH, now I set it," are not uncommon from these players. Indeed, though Even More isn't billed as an educational product, it is a valuable tool in developing analytical thought and an appreciation of physics in young minds.

Mind Warp

Every puzzle is presented with two bonus values. The first is for speed of completion, decreasing as time passes. The second is a preset value based upon the difficulty of the puzzle. Early puzzles are easy for most adults, latet ones can be cruelly mind bending. Getting a bowling ball to progtess over a series of trampolines may sound easy, but the angle of atrack is the key (Pool players will love this game). One hint is in order here: in puzzles that require these types of actions, allow the machine to remain in motion as long as the ball is active. An incorrect first trajectory will often rebound along the series of obstacles and find the correct path on the second, or even third pass.

The free form area allows players to hop on the other side of the screen, as it were, and release their eteative side as designets. The potential objectives and types of machines one can create are virtually limitless. The only constraint seems to be that they must be confined to one screen size. With this feature. users design fully functional machines, then remove whichever pieces they desire to form the puzzle. After this, additional non-functional pieces may be added to the mix to throw players off track.

The Even More Incredible Machine lives up to it's billing, surpassing the original in terms of play value, if not presentation. Registered owners of the previous release can upgrade to the new release for \$19.95. cow



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instrument panel created digitally



by Jeff James

s far as cateers go, that of a Space Marine in Electronic Arts' Space Hulk can be one of the worst. Afrer enduring years of back-breaking labor, mindnumbing training, and the sadistic ministrations of a commanding officer, they're unceremoniously stuffed into an intestellar spacecraft and sent off to do hatrle with a race of unfriendly xenoforms. Not only are these aliens (called Genesrealers) averse to polite small talk, they have a bothersome tendency to tear Space Marines into fish bait. To make matters worse, the Space Matines are often loaded into torpedo-like craft and launched into the depths of detelict spacecraft, known to be the favorite hangout for Genestealets the galaxy over.

As vicious as the Generatelers may be, a good Marine commander can even the odds for his roops. String about the conflict, as a display at a side disease; from the conflict, a shape at least the string about the commander the unique ability to direct his troops as he sees this meanting the sampery and physical superiors. This gives the commander the unique ability to direct his troops as he sees this machine, the sample of the commander the unique ability to direct his troops as he sees that the commander to direct his troops and strategy about a group strategy and tracts. We offer the following paciful from and strategy can be considered to the comments in the hist behavior to the comments in the hist behavior that the comments in the same that the comments are the comments and the comments are the comments are the comments and the comments are the comments and the comments are the comments a

2 1. The mission is everything.

Before accepting a mission, the player should fully understand the objectives of that mission. As part of this process, a thorough study of the information—especially mapspresented in the Space Halk missions bookler is essential. Once as much data sa possible has been collected obout the mission, an overall arranges should be formed to achieve the goals arranges should be formed to achieve the goals to be compared to the compared to the compared possible. If the mission requires that sa use to destroyed with a heavy Flamer, the mission should be structured around that goal: the Terminatore with the flamer should be prounant the mission is completed. Terderforce Marine commanders must flight the urge to use random search and destroy tencion with every mission. Always keep the objective in mid and achieve the squeley as possibile.



As advanced as the Space Marine combat cao-armor is, the passesse one glaring flaw: slow speed. Terminators may be able to wade through hectares of enemies with impunity, endure a cold wacuum with glee, and emerge from any conventional weapons attack unseathed, but they can only move at one of two speeds: slow and slow enough to be eaten.



Therefore, it is vital that a Space Marine commander keep his charge; continually moving at all times. In any mission, taking advantage of a full between Genestealer were attacks to move Marines towards the objective is a goand strategy. Think of the duel between Space Marine and Genestealer as a cortoise vs. hate situation: Marines may plod, but petuisteen ploedding serves them well.

3. Cover the brothers.

Learning how to advance a sluggish squad of Terminano towards their mission objective without having them gobbled by Genescalers is a skill essential for victory. Rookic commanders often will rush every Marine at rheir disposal hetre-skeler towards the mission objective, hoping that cough Terminators survive the custing abughare to complete the mission. Other making is difficult to advance through the mission area. The answer lies between these two extremes.

Immediately upon atrival into the combar area, a de-fensive perimeter should be immediately established. Space Marines with long-tange weapons (ideall) Stoom Bolites's should be moved to seal off all approaches to the entry point. After the entry point of the entry bear and the entry bear area of the entry bear area.



Then the first set of Terminators should be moved past the positions of these Terminators in a tactical game of leapfron. This tactic should be used all the way to the mission objective. Of course, some mission objectives require that the player adopt a more defensive posture, such as defending an area or killing a required number of Genestealers. For offensive operations, however, a fast-moving (well, relatively fast) squad of Space Marines that can simultaneously advance and provide covering fire will have the odds in its favor.

4. Master the planning screen. Controlling Marines directly may be satisfring, but the slow reaction speed of any

human commander ensures that some Marines will have to fend for themselves. When controlling more than one or two marines, using the planning screen is a must. Using the planning screen, Space Marino

commanders can essentially program individual Marines to perform certain pre-defined actions, such as moving to a certain location. opening a door, or flaming an objective area. Since a complete squad of Marines is impos-

Genestealers, Conversely, Marines in Overwatch seem to lack the intelligence to turn and face an enemy or plot a course around any obstacles. Players must learn to jumn in and intervene when a Marine is in dire straits. Players with a Sound Blaster (or compatible) sound card get the added benefit of hearing the Marines call out their numbers when they're under attack, making rescue just the press of a function key away. Learn to balance Overwatch mode with direct control for suc-

6. Trust your Storm Bolter.

Of all the ranged weapons in a Space Marine's armory, the Storm Bolter is the most vital. Other weapons are more glamorous: the Assault Cannon and the Heavy Flamer can climinate aliens with awe-inspiring displays of destruction. As effective as those weapons can be, they both have the same fatal flaw:

> the trusty Storm Bolter never runs out of ammo. Space Marines using Assault Cannons and Flamers are nothing more than quick and easy meals-onthe-go for angry Genestealers when their ammo has been expended. Storm Bolters can jam with continuous use, so they should be fired in short, controlled bursts to minimize jamming. Finally, wise Space Marines aim at the chest of approaching

limited ammunition. Only

Genestealer when firing. Shots aimed at the head or extremities of the enemy are more likely to bounce harmlessly off their hard exoskeleton



Every Space Hulk commander realizes that Genesicalers are deadly in hand to hand combut. Simply put, the best tactic for fighting Genestealers hand to hand is-don't: keep them at bay with ranged weapons as long as possible. If close combat with the aliens seems nevitable, equipping Space Marines with any hand to hand weapon is preferable to using Power Gloves. Lightning Claws and Thunder Hammers are ideal for mission areas consisting of short, twisting passages, where ranged weapons will have little effect. Chain Fists and Power Swords work well with Storm Bolters, giving a Space Marine both longrange punch and better odds in a melec. If the mission requires that an object be recovered

from the hulk, a Terminator equipped with Power Gloves is a necessary evil. Remember. Terminators (with the exception of those equipped with Lightning Claws or Thunder Hammer/Storm Shield) are destined to lose nearly every close encounter with a



Genestealer.

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FOREN PROPERTY

Masterine the finer points of controlling Marines is key. Using a combination of the mouse and keyboard is the superior playing method: put a hand on the cursor keys for movement and one on the mouse for firing. switching squads and selecting objects. Hitrine the function keys (F1-F10) is the best way to move between individual Terminators, while a tap on the 'F' key is an alternative to dicking on the 'Freeze' button. In addition to mastering the controls, developing good fire and movement ractics can also be helpful. Beine able to fire while moving backwards is important, as is learning to pick Genestealers off by aiming at the corners of corridors eliminating them before they have a chance to rush a player's Marines.

9. When all else fails—cheat!

For commanders who don't mind a little bending of the rules to achieve victory, making multiple copies of Space Hulk's single save game file can be a godsend. In the Deathwins campaign, information about the squads used is contained in the file CAHULKI DAT DIR\SQUADINF.DAT. Making a backup copy of this file (renaming each backup something like SQDINF1.DAT, SODINF2 DAT, etc. can be helpful) will allow Hulk commanders to venture into new missions with impunity. Some missions are impossible to complete at the first attempt, especially in the Deathwing campaign. Using saved games as insurance, players can run a squad or two through the mission to reconnoiter the area and get a feel for the strength of the enemy before bringing in the "real" troops. Since individual squads do gain experience (and commensurate increases in shooting and close combat ability) by surviving issions in Deathwing, backups can ensure a

skilled and deadly squad of space grunts. cow



grammed set of tactical instructions for the bulk of a player's squad is vital. It's usually a good idea to have the player directly control only those units that are under attack-Marines under human control fire more accurately and jam weapons less often than computer-controlled troopers do. Placing Marines on ready status-called Over warch-will cause them to shoot at any enemy that crosses their line of fire. Without mastery of the planning screen, any aspiring Space Hulk captain will be sending the soldiers under his command on very short, very bloody and very unsuccessful missions.

5. Overwatch: use at your own peril.

As vital as mastering the planning screen is, players must realize that Marines in Overwatch mode fight poorly. Overwatch mode does have its uses: a Storm Bolter-equipped Marine in Overwatch mode at the end of a long corridor can destroy dozens of

Page 46

The Eastern Front, Gary Grigsby style.









army from 1941 to 1945.

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SEAL TEAM

Patrolling The Mekong Delta With EA's Elite Forces

by Jeff James

omputer simulations of small-scale infantry combat have not been a popular topic for game developets. While other segments of computer wargaming have experienced considerable growth in recent years. state-of-the-art simulations of small unit actions have been few and far between. Micro-Prose's Airborne Ranger and Special Forces leaned towards atcade action, foregoing realism for instant shoot 'em up gratification. Interstel's D.R.A.G.O.N. Force offered more tactical depth, but is now sorely outdated. Into this open gente, atmed with state-of-theart technology and backed by a veteran team of developers, jumps SEAL Team (ST), a first-person, squad-level simulation of special team operations. With its excellent graphics, sound, and risorous attention to detail, it seems that the gente has been "teboth hard."

Mission Briefing

In SEAL Team, the player directs the actions of an elite squad of U.S. Navy SEALs in Vietnam's Melkong, Delta, from 1966 to 1969. The simulation begins with the seletion of a character from a group of SEAL tecruits to serve as the player's on-screen alter 190.

Once in Victnam, the player and his squad receive their first mission. Each mission is



presented in the same order: first is the intelligence briefing, giving the player a brief summary of the forthcoming mission and its general location. The mission briefing screen is up next, offering more detail on the objectives of the mission and the latest intelligence report. A short animated briefing is available from this screen, visually displaying the obiecrives of the mission and describing the insertion and extraction methods used to get the ream into and out of the area. Players can use the marching orders screen to choose which members of the team will be part of the four-man mission squad. Weapons and supplies can be selected for each SEAL from this screen as well; neatly two dozen types of pistols, machine guns, grenades and light anti-tank weapons are available for arming a SEAL to the reeth.

After the squad is armed and ready, the boys engage in a time-honored miliary tradition: the bull assion. In this squee sequence, a digitated animation of SEALs preparing for the forthcoming mission is shown while a series of timenes, scarcial tips and soldierly banter is displayed at the bostom. The advice presented during the bull sessions is worth paying attention to. Some of the SEAL charter is decreased and soldierly strength of the soldier is somether than the soldier is somether than the soldier is somether in societies of the SEAL share is somewhat in round mean to fight in the Middle East. Aside from

deciding that the hot climate would allow them to work on their tans, they conclude that the SEALs would be as fear-some a fighting force as ever. Although a relatively minor piece of the game, the bull ession added considerably to the depth of simulation. As highly trained and disciplined as the SEALs are, bearing them dis-



cust their conecurs and fears make them more believable—and more human. After the bull-and believable—and more human. After the bull-assession ends, an animated sequence shows the team clambering onto the insertion vehicle, to usually a river boar or believapeer. Soon affection vehicle, the squad is inserted into the objective areas experience of the inserting the player the oppion for te-inserting the squad at another map location, making it possible to make feints and false insertions to confuse the next or confuse the

In The Mud

After the player has accepted an insertion point, the game switches to an impressive viewing perspective: a first-person, mud-oyour farigues viewpoint where the player sees everything the SEAL point man would. Press-

ing the FT key brings up this visual perspective, while a press of the F2 key calls forth an above-the-shoulder view of



ICI: \$49.85 SIEM IBM QUBENENIS: 500.0K-SXN/Er, 2MB RAM, YCA graphics, 4WB hard drive is del compression not supported Mare SICRESS Archiv Gagnon, Howard Haye-B BLISHIR: Blockwar Aris



the player's point man. Using either a joystick, mouse or the cursor keys, the player can direct his SEALs to move at one of three speeds: stop, slow and run. Pressing the 'I' key causes the entire squad to hit the dirt and crawl; a press of the '2' key calls for a crouch; and '3' causes the SEALs to stand upright.

For most missions, play involves traveling across some distance of terrain to reach the objective points. True to the varied real-life missions of the SEALs, a large variety of objective types are offered, including patrols,



ambushes, demolitions, rescues, recoveries, snarches and observations. Rescue and recovery missions require the SEALs to rescue downed U.S. pilots/POWs and recover certain supplies. Observation missions require the SEALs to designare a target-such as a bunker-for destruction by attack aircraft.

Depending on the mission, the player may have from one to several objectives, such as having to patrol a village, demolish a bunker and snatch a high-ranking Vict Cong official. all in one operation. As the point man, the player's SEAL gives orders to the rest of the squad by the way of authentic SEAL hand signals. Since surprise and stealth are the hallmarks of a SEAL, these silent battle gestures ensure that the player can communicate with the rest of the squad noiselessly. Using these hand gestures, the player can make his squad assume one of four marching formations, issue a variety of firing orders, and perform a number of other commands. When used, a tiny window appears on the screen with an animation of the hand signal in question. Combat is usually fast and furious, with Vier Cong (shown on-screen clad in black earb) soldiers usually opening fire-with every weapon at their disposal-on sight of the SEALs. When viewing the action through the first-person point man view, a targeting reticle will appear on the nearest civilian, Viet Cong soldier or building, indicating range to the target and the probability of a successful hit (indicated by the color of the reticle). Hitting the tab key advances the reticle through available targets, while a tap on the fire button, enter key or left mouse button

fires the currently selected weapon at the target. The Devil In The Details The graphics used in ST are taken right



from the leading edge of flight simulator technology, with polygon-filled graphics representing the foliage, buildings and geoeraphical features of the game world. The SEALs, enemy soldiers and civilians are all rendered in bitmaps, making them more realistic. Several other graphic touches add depth to the same, including the addition of birds and insects which fly across the player's field of view. Occasionally a bomb-laden F-4 Phantom will streak across the objective area, en route to some off-screen target or objective. Although the polygon graphics are rather plain, especially of the foliage (vegetation seems scarce given the setting is Viernam), the addition of the aforementioned graphic touches help draw the player into the same. This detail extends to other same elements as well; the SEALs are only allowed to use weapons historically available during the same time period. For added detail, the game offers eight difficulty and realism settings,

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allowing adjustment from the effectiveness of correnty intelligence to the time it takes to reload. Sound and music (composed by George" The Fax Man' Sanged) are excellent, with the digitized report of automatic waspons fire and exploding hand grenades. Turning off the music and leaving on the sound effects brings on a host of natural noises, such as the rusts of Biyng birds and the chipping



As mentioned previously, detail is a hallmark of SEAL Team. The designers reportelly consulted with Navy SEALs who served in Vennan, in addition to consulting the UDT-SEAL Museum Association, for facts and mission details. The munual is illed with excepts from the book Polat Man, a novel written by Chief James Waxon, one of the first operational SEALs, describble pils experiences in Vietnam. The excepts add an inmensurable amount of abstracts or the game,

tides that will pull you into the next dimension in PC entertainment. CyberMan is available now at your local dealer, or call 1-800-732-2928.

fleshing out the polygons and bitmaps of the game with real human drama.

As novel as some aspects of the game are, SZAL Town does suffer from a number of minor folders, Sercen updates can be choppy even on the fases 386 machines. Although the game will run on most 386 systems (the designers recommend at least a 386 running at 33 MHz), a 486-kevd machine is almost exosmial. Although the game only occupies a frugal 3.8 megabyres of hard-drive space, disk access is often Isharjie: thankfully, bard drive access is minimal once the player has his SEALs in the mission area.

I salues the artificial intelligence of enemy infects, which seem to act with almost human cunning, crousehing behind obstacles and byte in was for the side at inten to strike. Unfortunate the salue of the salue in the strike of the salue of the salue

Debriefing Admittedly, most of the aforementioned

by the enemy.

..YOU NEED PROFESSIONAL HELP.

deficiencies are minor ones. Through this product, designers Gagnon and Hay-Eberts have not only succeeded in making an enjoyable piece of computer entertainment, but an educational and enlightening one as well. Like many CGW teadets, I wasn't yet born when the missions described in SEAL Team were carried out. For those of us who weren't there. SEAL Team offers a tiny elimpse at what the veterans of the Vietnam conflict went through. The designers adroitly sidestern any political stance on the Vietnam War. focusing instead on the men and the difficult missions they had to accomplish, Although nor nerfect. ST is unarousbly a major tactical victory for the infantry-level computer commander.

The author would like to thank Col. Kevin N. Lawson, U.S.M.C., for his assistance in preparing this review. Kuw



The Sensewore' Company





Unnecessary Force

A Performance Review Of Tsunami's Blue Force

by Charles Ardai

Taving "acquired Jim Walls, the eccop who created the Pulier Questresia
police game, for Sierra, to write their little
police game, Tunnam Media appears to be
trying to go hand-to-bead with the big byte.
And thir's not just Sierra, the also ex-lox
Angeles top exp Darryl Gates, whom Sierra
beaught in at Walls explorations for the next
Police Questyme. The just justilious on how
case will are in the role of game designer,
access will are in the role of game designer,
Force It is simply not as strong a Walls'
provious rature.

Force Majeur

In Blue Force, the playet steps into the shoes of Jake Ryan, rooke motorcycle cop in the town of Jakson Beach. Ten years entiter (or possibly 11, depending on whether one trusts the game or the game took, Jake's parents were ganned down by a mysterious, long-haired assailant. Now, by a sequence of coincidences too enormous to describe, Jake is about to end up on the trail of their fallers.



The game is divided equally between route the poles activity movering a domestic vierce or drund driving call, boodings suspects and evidence, thorough up for impection) and Julie's personal investigation into this patents. A suppose the culties the high call, for which purpose he culties the high call, the which purpose he culties the high which was not a suppose the culties the high which was not been a supposed to the property of the contraction of the purpose of the property of the pro

game. A nent, little, improbable puckage what more could one want?

A coherent story, to begin with I suppose:

and, second of all, a story over which the player has some control. In 8the Fure, one trardy knows, between episodes, where to go next but in rate between the control and and acter or event always comes along to lead the player by the nose into the next sequence. Experimentation is discouraged. If the player tries to go anywhere other than where the computer wants to go, the either finds nothing when he gets there, or he isn't allowed to get there at all.

hold Holman, one travels around the city by the citicing on hotopout on a city map. Also, as in the Holmer game, a trip to any location other than the one the comparer wants the player to see it a worst of time. The player will when the computer and nothing disc. They to take how the he attries, or an admonition from the computer and nothing disc. Thy to take his other to the "Bothin Hat" while he is not duty and the computer any. "No time for pleasure." It Ty to take him there after hours and the three the player of the players. It is not to be a superior to the players of the players. It is not to be a superior to the players of the players. It is not to be a superior to the players of the players. It is not to be a superior to the players. It is not to be a superior to the players. It is not to be a superior to the players.

Eventually, one realizes that many of the locations in the game simply don't exist except as prop-up facades. There is no bowling alley; one can go into the Alley Cat as far as the main counter and no farther. The police station consists, essentially, of one coom. The juil consists of two After a while, it becomes clear that Tsunami has it even bothered to simulate a oame world.

Objects in the game get similar treatment. At one point, Jake opens the runk of a car to reveal two bases. The box on the right can be opened, as far as the computer is concerned, the box on the right reveal some flares and a spring-loaded much. If Jake trees to take the

punch, he can; if he tries to take the flares he is told, "You have no need for flares." Why put them in the picture, then?

Even characters must endure this disrespect. At one point, I spent several minutes trying to disk on I.yle Jamison and wondering why the computer kept saying things like. "That serves no purpose." Eventually, I figured it out: the computer didn't know Lyle was in the toom, since in that room I.yle was merely part of the background graphics.



It gets woese. When one clicks on objects in a Sierra or LucasArts game, one usually gets dever or interesting descriptions. When one clicks on objects in Blue Forze, one is lucky to get descriptions at all. (A bulletin board: "It's the usual boring suffi." [Jack's badge: "It's your I,D." The Bikim Hut: "It's the Bikim! Hut." A mobile

home: "It's a delapidated [nt] old trailer.")

Conversations with characters are mostly a matter of "Helbo," "Gotta run," and "See ya," ot die they are strings of silly obscenities handled clumely and inconsistently: "denum" is spelled something like "d" "but "pig see," "shoeti," and "puck off" (when Jake is trbuffed by an air hockey player) stand as they are.

The planning and structure of the game's dialogue are also abysmal.



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For example, if the player clicks the "talk icon on the duty officer when lake teturns to the police station after recovering from his broken leg, the ensuing conversation is of the standard "Got things to do, see ya" variety. Only if lake shows a cocktail napkin to the duty officer does the game produce the proper, "Welcome back, how's the leg?" dialogue. Later, Jake asks Lyle, "Does the name Cobb mean anything to you?" immediately

after Lyle finishes telling him who Cobb ist All of the above contributes to the game's generally cheap feel. It's sketchy, like a rough draft or a preparatory drawing. For the amount of money it costs, players deserve better.

Insufficient Force

From a technical point of view, Blue Force is more of a scooter than it is a policeman's Harky. Even on a 486/33 it runs painfully slow. In the amount of time it takes for lake Ryan to walk across a screen, a real cop could have arrested a perp, beaten him up, and stood trial for brutality. Making matters worse, when two characters are on a screen, each moves separately: first lake begins the slow trek across the screen, and only when he is finished does Lyle start.

As in Tsunami's Ringworld, the command interface has all the icons placed on a pop-up window. This device is fine, but for it to work the pop-up window must pop-up immediately when one calls for it. There is no excuse for the game to chug along for up to three seconds before deigning to give the player his command options.

Nor is torpidity the game's only technical flaw. As in Ringworld, the player's chatacter occasionally moves to locations on the screen other than the one on which the player

clicked. In at least one sequence this is disastrous. I wanted lake to look at a bookshelf. Instead, he exited a room a) that contains something the player needs in order to set further in the game, and b) that the player cannot teenter (without good reason) if he exits it prematurely.

In addition to its technical flaws, one has no choice but to take note of the game's appulling spelling errors and factual inconsistencies. Was Tsunami so hard up for cash ot pressed for time that they couldn't hire an editor to change "your" to "you're", "par-ent's" to "parents", and "burtenders" to "bur-tender's"? Couldn't someone just decide



when the murders took place and make sure that the same date was used throughout the game? (The date is given, variously, as 21 March 1983, 14 June 1983, and 16 May 1984.) For a company that wants to be taken seriously to put out a product this shoddyand needlessly so-is insane.

May The Force Not Be With You While playing Blue Force I was reminded of

Capstone's Stephen King-derived game, The Dark Half, which loyal CGW teaders will recall I deemed the worst adventure game of the past ten years. While Blue Force is not in that category, that's a little like saying that pneumonia is not as bad as cancer-true enough, but one wouldn't want to set either. Jim Walls and Tsunami both have bettet work in them. I rake comfort, as should they. in the knowledge that they have nowhere to go but up. cow



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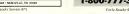
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Electronic Arts Rediscovers The Seven Cities of Gold

Curn with us now to those thillling days of yearcyters" still echoes boomer" generation. The opening line from "The Lone Ranger" elevision series has just the right amount of nostalgia to re-introduce The Sown Cities of Gold. This classic game has a perfect combination of elegant dosign, intriguing subject matter and solid play balancing to latt the marks it toody's marks in odds's

So, return with us now to those thrilling and Dan Benner unstructure grames, to 1984, Rull and Dan Benner unstructure, 1984, and 1



In historical terms, the game begins in 1492 and may continue indefinitely if the player meets the required victory conditions. In essence, the player has 10 voyages to establish at least one Colony, one Mission and three Forts in the New World. If these conditions are mest, the player may continue to explore

and expand the Spanish Empire indefinitely, provided one's voytges remain profitable. Sown Clife has three levels of difficulty. Novice, Journayman and Espert. Vectory conditions are consistent throughout the Arrivan form the Crown decreases at the higher levels. To start off, the player selects a desired diffitually level and determines whether the New World will be historically correct or and Seen Seen Cliffic infinitely relabable.

With the world established, the player is transported to an awtennate-game, like display. Here, the first order of banness is to wist the plates and review the Clown's character and the plate and review the Clown's character and review any promotion. The second neceein any promotion. The second neceein any promotion. The second necees are promotion. The second necees are the second of the New World and the contract of the contract of the contract of the New York of the New

The final stop before setting our for Terra Incognite is the Harbor Master's office. Here, one can buy all of the provisions, men and equipment necessary to undertake the journey. Initially, it is best to stick with one ship and provision it well in lieu of leaving with half laden ships Profits from the initial voy-

agesshould allow one to expand the transportation base rapidly. Explorers are the cheapest men to hire, though they consume food faster than their more stalwart compatriors, soldiers and derpy. Keeping in mind that explorers are necessary to map the new world, and on needs to establish settlements quickly, it is best to begin almost exclusively with these men and incorporate the others on later voyages. Several horses are important both as a mode of rapid transportation and to pack import and export goods more efficiently. As for Old World cargo, animals, old world plants and weapons



can be used for trade with tribal chiefiains. Food can be used as a trade commodity as well, but is primarily used to keep the party on its fee.

Shoving Off

Leaving Spain, one is transferred to an overhead view which forms the backforp for all navigation and exploration in the game. A single slip icon represents the group while at sea, but several men move across the terrain once landfall is made. Players use either the keyboard arrows or a joystick to control movement; mouse support is not provided. Upon making landfall, a pop-up menual joys-

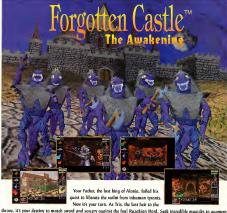
lows the player to drop off men and equip-



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ment for the overland expedition. If some of the crew is to remain with the ship, one must ensure that there's enough food for both parties before departing. Once established, the expedition will begin movement ashore. If at least one explorer is present in the party, these rawels will be mapped permanently. The tate



of travel is affected by the mode of travel (mounted on horses is naturally the fastest) and the various terrain types. Morencen is fastest on rivers and over pains, desert and because the significant of the pains, desert and possible to the pains of the pains, because the pains of the pain

As the party travels it may stumble upon burial mounds or gold mines in addition to narive civilizations. The desecration of burial mounds is an easy way to gain some artifacts to return to the Old World, but it can have a decidedly negative impact on the local populace. Gold mines are wonderful discoveries. yielding some quick profit as well as a new feature. In the old system, mines generally had more than the party could carry in one trip, so they were visited several rimes, but once the initial supply of gold was exhausted the mine was considered tapped. In the new system, the player may leave men behind to work the gold mine and keep it productive and profitable for a longer period of time. As before, one must ensure such groups are well provisioned such that they don't starve before the player teturns.

"Savage" Culture

Interaction with the native civilizations is essential to success. On the overhead explotation map, their settlements are depicted by various icons ranging from crude hurs for warrior and hunter tribes to the claborate pyramids of advanced cultures. Upon colliding with one of these kons, the player's perspective changes to the tribal screen.

The tribal encounter is a close-up overhead view centered on the player character. Boxes in the lower right corner of the screen show the party strength and whether or not they are brandishing their weapons. The latter is a decidedly bouille gesture, but it may be necessary when trying to establish trade with a tribe that is less than welcoming to the Europeans. The level of hostility or suspicion of the tribe is denoted by the tempo of the tribal

drums the faster the beat, the greater the levels of aggression and the speed at which natives will pursue the player icon.

The objective of the player is to explor the village, find the chief, and begin trade negotiations. Until the chief is approached, the other natives will pussue the player and try to 'bump' into him. Such contact cause causalties to both sides and increase the level of hostility. As such, players intent on peaceful trade will enter the village without brandishing their wasnoss and zoold all.

contact with the wandering natives until the chief is found.

Powwowwing With The Chief

By approaching the chief, a separate screen pops up for negotiations. The player's objective is to develop the relationship to the point that the Chief will agree to trade. One can try to amaze the chief with technology (generally only effective against the most primitive tribes), threaten him with violence (usually not a good idea), or give him gifts. The chief's reaction to the gift can be seen in his facial expression. Animals and horses tend to be the most effective gifts for quick trade, as two or three usually constitute sufficient tribute. Old World plants are less effective, as the Chief may become too tired to continue nesociations before he has received enough of these items to allow trade. Arms should be offered only to warlike tribes, otherwise the passivistic, aggranan chief may be disgusted by the offer. Once trade is granted, the player has access to all the gold, artifacts, spice and new world plants of the tribe, as well as some food and native bearers. In this

sense, it is not trade at all because it is unnecessary to provide any further Old World items to strip the tribe of all its resources.

This ability to get Manhattan for a string of beads, as it were, is the only holdover of the less than adequate portrayal of Native Americans in the original game. The first game made to somewhat casy, and even fun, to go on Indian pacification war parties, sometimes eliminating whole tribes. While some may justifiably atgue that the Spuningsh had a history of that the Spuningsh had a history of



the by butt, in chapter in a texture in the property of the pr



On the whole, much of the original designs has been retained and those modifications which have been made enhance, rather than detruct from game play. Sower Cities of Guld extenct from game play. Sower Cities of Guld better from gaming. Players will delighe in exploiting gaming. Players will delighe in exploiting to countes neces words, building lame and fortune, and extending the glory of the Spanish Empire. Euro





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Can you forge through the evil that lurks in the depths of the eerie dungeons, the ominous castle towers end the sevege countryeld? Piey elone or with control (furth) and for the control (furth) and for the control of the co

MODEM PLAY

1 OR 2 PLAYERS WORKING TOGETHE OR IN HEAD TO HEAD COMPETITION BREATHTAKING GRAPHICS FASCINATING ECONOMIC SYSTEM LARGE VARIETY OF MONSTER TYPES OVER 50 DUNGEON LEVELS The "Red Crystal: Seven Secret Life" is for the IBM PC. it can be obtained through your favorite retailer or ordered directly by

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warves of lesend-not of Walt Disney

movies-are stout folks possessed of

decidely hor tempers. On the island of

Targ, the two largest Dwarven clans are war-

ring for dominance and seeking allies among

the smaller dwarf factions. They didn't pick

the best of times for this dispute, as the land

is being invaded by Taldor and other nasty

creamites. Minderaft's Bloodstone is the "epic Dwarven tale" of their battle for survival and

Your character belones to one of the smaller

clans that the larger ones are trying to win

over to their side. In this case, the matter is a moot one, since the game begins with your clan being massicred by the Taldot. Only you and three companions make it out alive At this point, the player may feel a little

aimless, but the introduction in the manual makes it fairly clear that the hero's destiny is

to unite the clans behind one leader to repel

the invasion. In fact, the game has parallel

quests: finding the ancient artifacts to be

given to the leader of your choice, and finding

You'll learn the 'hows' and 'whys' of this as

the game progresses, mostly by talking to

people and doing some research. In between,

there is the usual dungeon-delving for impor-

to or items and treasure. The name plays much

like any of the Magic Candles, and in fact uses the the same engine as Morie Condle III. The

events in Bloodstone, however, take place in

the remote past, long before the lands of

As usual, your character comes pre-created

with a set group of attributes and skills, but

you do get to choose the gender and name.

You also begin with a very nice magic axe, an heirloom of your chn.

God of Dwarves and Creation.

Deruvia are even known of

control of the isle

Hi Ho! Hi Ho! It's Off To Tarq We Go

Mindcraft's Dwarven Tale Comes Up Short

by Scorpia

Your starting companions are chosen tom a group of cight. There's plenty of time to look them over and choose, as the action doesn't begin until the party is complete. Each companion you take also comes with 30

your liking. Magic is very important in this game, so at least two, perhaps three, companions should have decent magic abilities. All come with a limited number of spells and no spell books (called "totems" here); to make your friends truly effective, you'll have to buy some totems

when you find the people who sell them. In the meantime, you can pass around your own totem to other members for spell learning.

the high hundreds) and high armor protection. Ouite a few of them have spell casting ability as well. You are going to need all the help you can get, and

without those hetbs, you won't last long As you might expect,

The usual array of pottons, mushrooms and herbs is available, and you certainly want to stock up on them, especially nift, gonshi, mirror and sermin. There are many new monsters in Bloodstone, and they are all nasty.

Make no mistake, these critters will be tough. detail levels allowing you to captute every-Most come with hit points Bloodstone in the hundreds (some in

these monsters also hit very hard. For example, Ranak (whom we picked up early on as another party member) had 51 hit points. Dwarpen chain mail and a bronze belmet. He took two hits from a Taldor and was deadjust like that. Ought

This means you can't depend on your armor for much protection, at least not until you can afford steel plate and steel helmets. points that you allocate to his or her skills and There is little point in upgrading anyone's attributes, allowing you to adjust them to armor before then; the patty will have to rely on nift to keep them safe from physical blows. Nift should be active at all times for everyone, indoors and out.



Auto-mapping is present and still as crude as it was in the MC series, being a blocky, low-res display of the immediate area, with no scrolling. In dungeons, the auto-map doesn't work; you need a map flask and special pearls to get a look at your environs. You may want to draw your own maps on paper from the display on screen, as pearls can be used up pretty quickly in big dungeons where the map does not show the entire level at

Auto-notes are here, too, with user-selected

thing or just the most important

Pear 60

HEIRSTOTHE

IMITED VARIETY OF LAND TO CONQUER IY TERRAIN TYPES (Effecting Production and

MPUTER OPPONENT ENT OPTIONS FOR EACH GAME (You

Combat)
 HALL OF FAME

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conversations and information. Redundant entries can be deleted, and the notes are searchable by keyword. You can also insert your own notes at any time, as well as run off a copy of everything on your printer. While the auto-map may be primitive, the autonotes (which very few games have) are quite good.



Dungeons follow the room/corridots partern of Align Canolic, and you can be that most dones will lead to howtile Confrontations. It is best to be prepared for the workton and the confrontal to the confrontal for a light at uny time, as you never know when an ambush might occur As before, dangeon that are cleened out stay that way, so if you need to leave to estock supplies upon work thave to fight your way hock in work that work they come to the confrontal to the confrontal and empty rooms are good places to rest up and memorities getter.

One major change from the MC series is that Bloodstone does not require enting. Another is that energy levels do not drop while unkiling around. In previous games, the party causally tried rapidly during outdoor recks, requiring frequent rest stops or the use of mashrooms to evivident rest stops or the use of mashrooms to evivident everyone. Now, engre used up on the everyone. Now, engre used up on the everyone. Now, engre used up on the everyone of the extended ones, a good supply of setmin for all is still necessary.

Teleporters are also in the game, although there seems to be fewer of them than in the MC produces. Typically, there will be one on the last level of each dungeon to get you back our quickly, and a few releportals can be found in the outdoors.

While the game ran cleanly, it had some minds and major flaws that, taken together, seriously detracted from the experience. For one thing, while my character was supposed to be a Dwarf, she looked distinctly human on screen. It's hard to take all this Dwarven stuff scriously when you don't even look like a Dwarf.

The town of Rulian is inhabited entitely by Amazons, and as you might espect, they have a low opinion of males. They also appear to be extremely near-sighted, since their remarks clearly showed they thought my character was male, not female.

This problem also shows up at the beginning, where the graphic of the axe being

handed over displays two male characters, and again at the end, where the concluding text includes such phrases as "Scorp passes his knowledge on..." Since the playtesters were all male, it is likely none of them tried a female hero; otherwise these gaffes would have been caught and fixed. If the designers are going to offer the possibility of a female main character, they should provide

ng to ofter the possibility of a fernale main character, they should provide the appropriate text and graphics. Further slip-ups occurred when I received wrong information at two

points in the game. One person told me the magic Tlengle sword was in a certain dungeon, when it was actually in the passession of a hermit far from any dungeon. In Harara, the Loremaster gives

you a teleportal combination that is supposed to send you to Shatlam, but actually drops you into South Balat, not a good place to be if you have a low-level party.

Magie, as an offensive weapon, is hardly worth considering. What good is a spell that does 50 points of damage against a monster with hundreds of hit points, when one flighter, pumped up with minget and using a magically-sharpened weapon, can do 300damage with one blow? Even with turpin (a magic-enhancing plant), spell did nowhere near the damage they should have considering the power of the opponents.

Most of the time I used such spells as Disappear, Jump, Sec, Sharpen, Wesken, Quivet and Time Stop. On those rare occasions when offensive magic was used, it was mainly to polish off already-weakened enemies. Poor design shows up again with the placement of a very nasty dungeon

close to the starting town. No magic word is needed to enter; the party can just walk right in and get trashed by a succession of powerful monsters. This place was meant for an advanced group, not beginners, yet it sits right there where the party starts out, a vi-

cious trap for the unwary.

The real "starter dungeon" happens to be Pridaga Tower, halfway across the island, and it is much easiet for a new party. It is thoughriess planning, to say the

least, to put an advanced dungeon (easily entered, yetl), at the start, and the beginner dungeon so far away. It would not surprise me if some players gave up right there, thinking, "If this is the beginner dungeon, what are the rest of them like?"

Another problem I had was finding the "all-weather canvas." You need several items to build a ship, and all but one are found in dungeons. For most of the items, someone, somewhere, will give you a clue to the location. But the canvas is not in any dungeon

and no one has a word to say about it. You might think it doesn't exist.

It turns out that there is one store that sells the canvar, and that's in a town you won't be visiting for some time in the game. You won't even know it's for sale until you accurally ask to buy something, even the shopkeeper him-self doesn't mension anything about canvas. An item this important (and it is important) should have been cloud somewhere in the game; it is too easily overloaded otherwise.

The big flaw, however, comes ar the end. Most of the party's activities have been directed to rettieving Dwarven artifacts to give to one leader or the other. The deen it have to be done at once; you can hold on to them to be done at once; you can hold on to them of the control of the contr

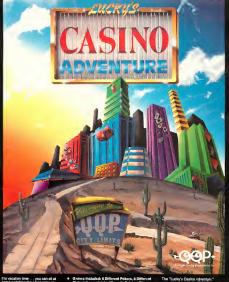
No. It doesn't work that way. The moment you take the axe, the game is over. It goes automatically into the endings sequence, and you do not have the opportunity to give anything to anyone. If you have given even one artifact to a leader, he becomes the chosen one. If you still have them all, then the game makes a default choice which may not be the one you wanted.

When that happened, I sat there thinking, "I spent most of the game collecting these items, and for what? I still have them and the game is over." The whole focus of the game is made pointess, even traclevant, by this gaffe, which is right down there with the 'quir and win' finale of Realmo of Arksinis.



To avoid this, you must hand off all artifacts collected to the clan leader of your choice before stilling to Rohrkhad's castle. Minderaft has put inserts into the game boxes, advising players of this sure thing. Too little, too late, perhaps, but senter than no warning at all.

Overall then, Bloodstone turns out to be a disappointment. The interesting story and improvements over MCIII are overshadowed by design flaws and inadequate playtesting. Very likely, only dedicated Magie Candle fanswill want to slog through this one. Cow



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City Planning And The Sword

SSI's Stronghold Moves The AD&D Line In New Directions

by H.E. Dille

tronghold is a unique release for SSI, having a greater kinship to strategy games like Populous or Powermonger than to other titles in the AD&D line. As such, many fans of their role-playing games may be buffled by the play mechanics and objectives of Stronghold. Rather than lead a party of characters into another dank dungeon, players must direct five central characters as they build and support a vast kingdom. Computer-controlled opponents are building kingdoms in the same tettitory, and the player must expand and control the entire map to earn the title of Emperot.



The resources available to the player are extensive and exciting. Players can build over 100 structures, including a castle, factories, dragon hatcheries, armotics, schools of magic, forexs, guilds, outposts and temples. As players construct new buildings the populace and kingdom grow stronger. Factors such as the farmland, population and taxes can be controlled by the player or delegated to the com-puter, providing a flexible management system. Players will know how well they are doing based on morale. Content peasants are productive; demoralized peasants boo, hiss and throw tomatoes.

Laying The Foundation

the locale, selecting the "Create Baton or Baton-When beginning a game, the player may ess" option will create the

choose to play on a randomly generated map. or on one of five pre-generated maps, each of which poses a unique challenge. Unlike some other games with a map generator, the cohesiveness and logic of the maps created by Stronghold are sound. Using this feature, one can expect a lot of replay value

With the geography of the world established, players must select the level of hostility they desire. The Peaceful, Aggressive and Hostile worlds have different starting values for initial gold, total gold storage, rate of promotion based on morale values, and whether or not auto-build features will be

A Custom option also allows the uset to specify the total number of monster oppo nents which will appear in the world. Although the manual states that a maximum of 60 are possible, the addendum sheet contains a small note limiting this figure to 30.

With these preliminary issues resolved, the player begins the game on the main display. Two views are possible in this window-based interface. The first is an overhead map of the entire region; the second is a "postcard" type view of the cursot location. The latter is a first-person, 3-D polygon view with bit-mapped images of objects. An arrow between the two displays allows the player to quickly

Human (and Elven and Dwarven...)

Resources The first task is to tour the terrain and select the location of the main castle. Once satisfied with



380 or awater, 2MB RAM, VGA enterhies Day Doglow, Eltos Green and Cathryo Matago

central character. Four other characters will be created subsequently; these are used to found Keeps to support the main castle. Standard AD&D rules are used in the character routines, though players must consider factors beyond the normal combat bonuses if they wish to succeed. Character alignment deter-



mines the final outcome of the game, Lawful characters must progress through nine promotion levels to reach Emperor or Empress status through proper management of their kingdoms. Chaotic characters must destroy all enemy strongholds to win. Neuttal characters must achieve both objectives, making this option the most challenging scenario.

Each character race has different bonuses and liabilities. Successful players will balance their five characters to complement one another. Dwarves are a good choice for the

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Scenario

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first settlement, as their mining bonus will yield quick income if one places the settlement in a mountainous area. Halflings are wonderful food producers and are capable of supporting a wast kingdom if two conditions are met. First, their settlement should be bailt close to water, allowing a double bonus in food production. Second, other settlements must build granaries so that the fiood may be distributed equitably.

With a Dwarf sertlement promoting cash flow and Halflings feeding the masses, the player may want to consider sending the Dwarf character to the Halfling sertlement to build other buildings that they can subsequently claim. Ownership of buildings and resoutest sites the income and maintenance costs to the tespective character. In this fashion, walthy characters can and struggling



communities. Asso, one smouth mage the third character an Elf and send him offe cross the land claiming every tree in sight. Trees produce money and resources for the owning player, but unlike buildings do not degrade if unattended.

The Planned Community

As one considers the types of buildings exconstruct in each of the stutheness, to construct in each of the stutheness, the factors should be kept in mind. First, farms are necessary, but one should skew farm production toward the Halflings, who are the only ones capable for minding backers. Second, Markeptaces are essential to very settlement. They are quick products of frictions, they increase the productivity of farms, and they increase the productivity of farms, and they must be a second of the products of the contraction of the second of the second of the must be a second of the Marketplaces with these families.

Some structures are never worth the resources required to build and maintain them. The two main culprits in this area are public baths and city walls. Public baths provide little benefit to the populace (remember, this is armilar to the Dark Ages) and rec expensive to maintain over the long haul. Likewise, City Walls are only minimally effective against marauding monster groups, have an exorbitant construction cost, and their maintenance is debilitating to even the most productive kingdome. As such, hij wells are beep laced in areas where their effect is maximized, such as strategie monatura to sases.

The Power Of The Pyramid

With the five central characters in place and initial constituction underway, the player must begin to influence events using control icons known as "pyramids." Each character has its own pyramid located on the right side of the screen. Each pyramid movdes one of three actions in the area the player is currently viewing: Recruit, Ttain and

The yellow portion of the pyramid tepicients the amount of recruiting desired. The more intensic the recruiting, the larger the existing units will become and the more new units will be attracted to the stronghold. The light ted part of the pyramid represents the amount of training. The more power one allocates to this portion of the pyramid, the faster the

units will increase in level. Naturally, higher level units perform better in combat, possessing more hit points and better spelleasting abilities. The final portion of the pyramid, colored dark red, controls the rate of construction.

Combined, these three settings reflect 100% of the populace's effort. As such, it is necessary to after the settings to reflect the changing situation. In the beginning, a heavy emplasts on construction helps the kingdom get off to a good start. Later, one must allocate a major portion of the

effort to building and training new units; that is, unless one wants to tempt neighbors with a wealthy, undefended kingdom tipe for plunder.

The Call To Arms

Considering that no kingdom has even threat through position alone, it is no surprise that *Stonghold* frequires a mastery of the threat through position alone, it is no surprise that the stone of the surprise and the of opposition and the stone of the surprise and the surprise and the surprise and the surprise as a flashing red and white close. To draw additors the surprise and the surprise and turns up magnetic that attents readied units immeditally and others as time passes. An overview of the battle; progression is provided via a red strip and others as time passes. An overview of the battle; progression is provided via red despitation, the surprise and the surprise

Successful combat is essential if one has chosen any alignment other than Lawful. Unfortunately, the manual does not address a key aspect of this process. If one is successful in destroying an enemy stronghold, any surviving monsters will rash off to storm the battle-ments of the player's kinghom in a mass learnikase stratek. As such, one should mue draw off all of their attracts to pursue these draws off all of their attracts to pursue these draws of all of their attracts to pursue the surviving their survi

The Emperor's Diary

In addition to the situational strategies discussed thus far, the player will do well to keep three other considerations in mind. First, one should use characters in cooperation to de-



"velop well rounded and self-supporting settlenens. Second, it is better to upgast existing structures than to build new ones, large, arwinging ingloss send to be unatable later in the game. Finally, one will be self-training arranged to the self-training to the self-training character, the greater the rate of advoncement. With multiple halls per character, levels will advance very fast. Also, one should gingor the incorrect annotation in the minuted concerning ga maximum of ten Marketplass, congrega maximum of ten Marketplass, and Marketplass, additional ones are still cheap sources of income.

If one builds a stronghold with Downresi in the mountains and Hallings near water, and not the mountains and Hallings near water, and such such strategy, it is almost impossible to lose. This one play balance flaw is the only notable weakness of Stronghold. Players will have to avoid this powerful character combination as they become more skilled with the material of the program in order to maintain a challenge. Otherwise, Stronghold offers a new perspective to players of SXI's other ADSO products and is highly recommended, ear



Page 66 Company Gaming World

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Little White Houses For Grue And Me

Activision's Return to Zork

hu Charles Ardai



there is a white house in the middle of the woods that adventure gamers know well. Unlike Robert Frost, they do not know "whose woods these are"-or whose house, for that matter, standing there all boarded up and abandoned. What they do know is who the Great Underground Empire located beneath the house belongs to. It belongs to all the creatures of the night who lurk in its dark tunnels and caves; it belongs to the Flatheads, lords and rulers of the land of Zork; it belongs to Marc Blank and Dave Lebling, the "great implementers" of Infocom who dreams up the original Zork trilogy more than a decade ago; and it belongs to all the adventurers who have played the Zork games over the years, painting wondrous scenes in their minds to illustrate the words Blank and Lebling put on the screen.

In attempting to revive and modernize Zork. Activision is treading on sacred ground. It's a little bit like daring to remake Casablanca-or worse, since what Activision has undertaken is no mere remake. Return to Zork utterly transforms the most famous of Infocom's all-text universes, turning it into a cinematic showcase for curting-edge graphics and sound. There's hardly any text at all in the game, which is sure to make diehard Infocom fans cringe; and the purserless, point-andclick interface resembles the latest offerings from Tsunami or Sierra much more than it does the classics from Infocum. Gamers have had every reason over the past several months. since advertisements for Return to Zork started appearing, to wonder whether Arrivia sion's wholesale renovation of their favorite fantasy world would render it unrecogniz-



vised an ingenious and satisfying manner to allay them in the very first scene of the game. Contrary to expectations, Return to Zark opens with white text on a black background, just as an Infocom game should. Nor is it just any text-it's text lifted straight from the opening of Zork I. A few seconds after the rest appears, a full-screen image fades in behind it: the white house where the Zark levend began, drawn with such fidelity to the original description that no old-time gamer could fail to recognize it.



The text fades out shortly thereafter, never to return, but the point has been made: the writers behind Return to Zark haven't lost touch with their roots, Gamers who have been worried can rest assured that the Zork legacy is in good hands.

What of those gamers who are new to Zark, the graphics-hungry generation to which Return to Zork is presumably intended to appeal? They get their fix in the opening scene as well. After a moment, when the house starts to rotate, one realizes that the image is not staric and flar, as in a conventional

three-dimensional rendering around which the "camera" is able to swoop and glide, as in the best scenes from The 7th Guest. Followine a bit of business suggesting a marical abduction (giving the designers a chance to show off a sample of the full-motion video and the soundtrack throbs ominously and Hollywood-style credits roll. It's a stunning opening sequence, on par

with the opening of King's Ouest VI, and it is sure to win even reluctant players over. By the time players land at the mountain pass where the game begins, they are ready to be taken on a fantastic ride. What follows is only occasionally fantastic, but when it falls short it is never the video or audio that is at fault. The designers could stand to hone their storytelling and puzzle-writing skills, as well as their game engine-but as for the game's multimedia rendering, producer Eddie Dombrower and his crew have pulled off a performance that leaves its competitors far behind.

Where Have All The Flowers Gone?

The game is divided into three sections. First, for a few screens, one finds oneself on a mountain by a river; then, for a few more, in what remains of a town; and finally, for most of the game, in the Great Underground Empire itself. The dominant characteristic of all three sections is emptiness: though one meets characters here and there, the bulk of the locations are descried. This is more disturbing than it sounds, since according to the storyline the player goes to Zork expecting to find a flourishing community.

The player's task is to find out what is going on. The town of West Shanbar has vanished

Return to Zork





the Road to the South has become a pessificatial No Man's Land, the "Valley of the Sparrows" has turned into the "Valley of the Vulntures," and someone called Morphita has been retrorizing the few south who are left by invading, their deams. Only a fearless and resourceful explorer—hardy enough to wided a word, dougled enough to may mazes, and clever enough to solve puzzles—will get pass all the obsancles and unerover the land's se-

As in earlier Zork games, the storyline here is often incidental to the going-son. One spends most of the time dealing with the random obstades laid in one's path, which can usually be overcome by making ckever use of the objects one finds along the way. A simple example: there are quite a few locked doors in the gume, certainly more than there are keys. So, other objects have to be pressed into service.

Other puzzles include standoffs the player has to end, such as one herween a blind archer and a petulant, frisky fairy (played by the aptly named Robin Lively) who is pelting him with acotns; and "relationship" puzzles which involve figuring our how to get certain charactets (a staggering lush played by Harold Smith, a timorous wait played by Edan Gross) to part with objects in their possession. There are interlocked puzzles that the player has to solve in sequence, and one even encounters a few traditional puzzles, hearkening back to the likes of the treasure room maze in Zark III: a sliding-tile puzzle, two mazes, a boardgame, and two pop quizzes on GUE trivia.

Adde from some special interfaces for these pearled purels, one interacts with the game in fairly conventional point-and-clife that inc., One moves account by clicking on directions, one convention of the control of

More general command icons, including "save," "testore" and "look at map," hide just off sceen along with one's inventory, teady to be called up by dicking on any blank portion of the screen.

If the game's system of selecting from from nested mems is
not entitely comfortable, it is
less because it is novel than
because the designess define
their commands in counterintieive ways, from emast "pick
up" an object before one can
use it, even if it is in one's inventooy; if one

invokes the "use" icon, one is given the choices "pick up," "drop" and "examine." Consequentially, one links oncself "using" objects and then "picking them up. "To further confuse matters, "picking up" an object is not the same as "putting it in one's inventory"—the latter requires a separate step.—According to Activision, these are deliber-



icking the feel of a text adventure but, delibnate or nex, one cannot except the fraging that they could have been better thought out. The fact is than a soon-driven interface, however complicated, can explicate a text passer. I can't count the number of times I wanted to type in a command that was not on my menus of options, one finds a best but is not allowed to 'open' it, one finds a teamliance of the control of the control of the principle of the the depth of a sex-based passer, Remon to Earlis in order to the selection of the control of the con

agreeably-intuitive quality of, say, Sierra's icon-driven system, It's the old story about trying to sit on two stools and falling in between: the intent was commendable, but the execution leaves much to be

Similarly excessive is the complexity associated with movement which stems from Activision's ambitious attempt to simulate a three-dimensional environment. Each location in the game has up to four "stores" associated which in at the location facing forwards of the location, facing in the opposite direction, at a distance from the location, facing it; and at a similar distance, facing it from the other direction. Not all "exit" pulsways are visible from all four views, meaning that one has to treat each view a a separate location. The main problem with doing to is that it makes mapping the game a real bead-

ache.
Tripping the player up further is the fact that movement within mases is different from movement elsewhere in the game. In general, dicking on a left-pointing arrow nears "go left." In a mase it means "pivot to face left. One is not warned of this distinction, however, resulting in much unpleasant fumbling when the player finally gets to the

The third way the player interacts with the game (after using objects and moving) is by holding conversations with the characters he meets. In conversation, one is supposed to be able to influence the path one's discussions

take by clicking on the emotion icons (fascinated, bored, threatening, apologetic) that appear on the side of the screen. Unfortunately, in the interest of realism, the designers deliberately do not have the characters stop talking to wait for the player's input-one just has to jump in and hope for the best. In some cases the icon one selects only alters the conversation by a few words: in many it has no effect at all. Alas, one is never sure that this isn't one's own fault: one might have selected the wrong icon or dicked on the right one. but at the wrong instant. So, one tries again, and again.

In time, one realizes that there just aren't hat many different conversations in the game; much of the time, one can click all one wants and still never get a character to any anything aubstantially different. In the process of learning pits, however, one ends up sitting through every conversation four of five times. No matter how exciting one finds the prespect of watching human actors in a computer game, and no matter thow good the actors are (most here are excellent), four or five is too many times to hard dilappe that is



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not all that sparkling even the first time around.

None of the above makes Return to Zork unplayable, but the gameplay is less smooth, and the learning curve somewhat steeper, than one would ideally want it to be. Return to Zork takes some gerting used to. Becume of the game's good qualities it's worth it, but players should be prepared to invest some time in the process.

Zork, Sweet Zork

The new look of the Great Underground Empire also takes some getting used to. Gone, for the most part, are the dank enversa and convincingly subscreamen sertings of the original. In their place is a mixture of, on one hand, semi-Tolkienesque outdoor scenes and, on the other, florescent light-settine, modern farmishings, and giant signs saying things like "Welcome To The New West."



The player's first due that things are going to be different is that he starts the game in possession of a Polaroid camera, a pocket tape created, and a box of mastels from "Chuckle's Comedy Club." The camera and age recorder are really just convenient ways to ker the player keep track of where he has been and what he has been, due they set an unexpectedly modern one that persists throughout the game.

Mixed in with the usual ruins, forests and wooden buildings are an armore whose sign includes a laser-sighted title, an inn which looks more like a Holiday Inn than anything that belongs in Zork, and a trailer with a refrierator, oven and running water. The



The gag value of each of these secres is considerable, but the net impact of so many anachtonisms packed into a small space is somewhat disappointing. Again, the designers are trying to straddle two horses: they don't want to give up Zork's traditional fairies, trolls and dwarves, but they see

no harm in repeatedly breaking, the illusion with modern references and settings. Maybe other gamers will mind less than I did; I found the "anything we want to throw in' tone disorienting. It is hard enough to immerse oncest in a faction unfolding on a computer screen without the added distraction of a milieu that whits from Mid-

dle Earth to Middle America and back again in the blink of an eye. Adding to the sense of disorientation is the confused storyline which continually leaves the player won-

dering just what he is doing. Is the game about finding Morphius? Is it about figuring out what happened during the much-talked-about Great Diffusion of magic? Is it about finding. "Rooper," the fellow whose sweeparkses mailing is what tures the player to Zork in the first place? Is it about the disappearance of West

Shanhard Is it about more of these things? All of them? Some? Which? The anover, I think, is "all of them," which is cample number three of Activision ryving to do too, many things and ending up with a model. If ever a game would have benefixed from some judicious paring down, this is the one. Yet what a sopposes model is id For all the criticism the game enerits, and for all it oddities and excesses, Hamma to

Zark persists, scene after scene, in

satisfying the gamet, largely because

of its extraordinary effects.

The mix of digitized backgrounds, foreground action either computer-rendered or videotoped, full-motion video sequences, and genuinely thrilling com-

and genuinely thrilling computer-generated movie's scenes will leave the most jaded player breathless. One's climb down the Cliffs of Depression, one's boat ide to East Shanbar, and even such simple sequences as one's trip across a gift shop to eer to the cash resister are all

exquisitely tendered. First-rate actors lend their



hand to the process as well. Though nonexcept the prating Wizard Trembyle (Will McAllister) has more than a handful of lines. all do a creditable job of bringing their characters to life. Michelle Dahler is a fine witch. with a hint of Sigourney Weaver about her; A.I. Lapper plays Rebecca Spoot, one of the good guys, with the tole's requisite spunk and (mild) sexiness: Joio Marr does a fine job as the peculiar, scruffy Canuck; and Howard Mann lends some welcome comic relief with his turn as the gatrulous Lighthouse Keeper. There are plenty more, all of them fine, except semi-celebrity Jason (The Wander Years) Hervey who plays the part of a troll in a scene TV Guide properly singled out as embarrassing.

Beyond Zork

The good news. Return to Zork is not bad. It's a flawed game full of great visual moments, well worth the attention of anyone



who wants to see what the future of computer gaming looks like. If the Zork legend had to rest on this game alone, there probably wouldn't be any Zork legend; but as an addition to the series, Return to Zork is more than suifaferory.

The better news: Activision is still working on their design, their technology and their interface. They are learning from their mistakes and refining their successes, so that their next Inforom same should be even better.

talkes and refining their successes, so that their next Infocom game should be even better.

The best news: their next Infocom game is going to be a sequel to Planetfull. I'd predict that with Steve Mercezky calling the shots, that's going to be one to see. 1889.





Relentless Space Combat — For Naive Rookies or Hardened Vets



s a student at the TCSN Academy, you customdesign and fly unique combat, rescue, and search and retrieval missions from the CyberSchool's holographic simulator. In the Wing Commander' tradition, the game features a sical scare, imprayed rendered hitmanned

Wing Commander tradition, the game teatures a dynamic musical score, improved rendered, bit-mapped graphics, and a dazzling array of customizing options. But Wing Commander Academy is not another cinematic extravaganza — it's an intense dogfighting marathon.

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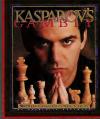
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Kasparov's Gambit, hte digitized image and write (Russian accent and all) will appear on your screen. He'll warn you of imminent danger. Question the tactics you



exactly what you'd call a pushover. So pick it up. Play it. And who knows?

After spending a few weeks or so learning the ropes from Kasparov, you may just find that you're finally ready to take on, well, Kasparov

use. And constantly challenge you to seek out fresher and deadlier lines of attack. There's even a second

10,0311

board, which allows you to visualize the strategies Kasparov

As you improve, you can customize proponents to suit your game.



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The Best Game On American Soil An Old Hand Jaws About Maxis' SimFarm, SimCity's Country Cousin

by Randall Black

owdy You're the feller what took over the feld Sim homested, aren't ye's Well, I've seen 'em come and go, Seens like some dry slic... In men ophisticated arbanite like yousself is always coming out here to try their hand at faming. Come on in and I'll try to give you an idea of what Simbrisming is all about. Get off that chair, Freeddy Den't mind the hog, have a seat. Frieddy Den't mind the hog, have as seat.

ing ain't no dag-blasted hobby. It's all about money. You don't have any chew on you do ya? I didn't think so. Like I was saying, it's all about money. You statt out with \$40.000 dollars, a homestead and nine plots of land. That's when you design your own. There's another way to get started and that's to take over one of the eight farm see-natios that're already up and running-from an apple orchard in Washinston State to a cattle feedlot in Michigan to waves of amber grain in Iowa. But the best way to learn farming is to start from the ground up. There's a saying around these parts: "Teach a man to fish and you just might ruin him for farming." Freeddy, 1 can hear you trying to get into that cookie jar! Can



you believe that dad-burned hog?

Now, what you want to do it make money by gowing, copins and liveranck. "So what's the first thing I should do?" you're probley saking Well, you're going to need equipment to farmyout land, so you should buy a tractor. And you need something for the tractor to pull so you'd better buy a plow and a planner and especially a proper. To far going to be doing a lot of prop Well, the me of the property of the control of the property was to be doing a lot of the property. The good because worker going to be doing a lot of the property.

is, sometimes it seems like that's all you end up doing in SimFarm. But there's enough other stuff to keep it purty interesting. Now let's see what else you're going to

Now let's see what cells you are going to so you'd better get a harvester, a truck and a traster. That's the minimum equipment you'll need to get a crop in the ground and get it harvested. Once you've bought all that, you can turn off the "antolesse" opinen, you can turn off the "antolesse" opinen, you can turn off the "antolesse" opinen, come and do the work for yaif you don't have the equipment to do it youstelf. But they charge a lor of money and farming is all about money. Did! say that?

Now, if you leave your equipment out in the rain, it's poing to rust. So you'd better buy yourself a shed. While you're at it, get yourself a counte of silos to store your crops. If you don't have silos, you can't store whatever you've prowed, and that means you have to take whatever price the dag-blasted commodities market in Chicago says your corn or tomatoes or sorghum is worth on the day it's harvested. You're going to find out that the price you get for your crops makes all the difference between makin' a so of it and having the tax man come and yank your land right out from under you. So buy some silos. That gives you a little time to think about how much they're offering and how much you want to get.

Now you're just about rendy to plant your first crop. If you were smarr, you'd par your sheds and the like off to the side, maybe near your homestead, so as they don't take up good ground that can be put into production. A big part of making your farm productive is laying it out right. You may of noticed that

your land is covered with rocks and trees. Before you can plant you're going to have to buildoze them. Unless, of course, you ser your options for "autodoze." In that case you can plunk down a crop without wortying about rocks and trees. But then there's those that like to do it themselves. The next thing to do is click

your mouse on the plant icon and

drag it over to the crop you want to plant. I'm partail to strawberries, but you can manoney on just about anything, it's real immoney on just about anything, it's real imsport that gives you'a little bit of elbow toon around the celess for roads and irrigation diriches. The minute you plant a crop, your problems start. Nobody said firming was easy. There's a pretty good chance you're of your field. That's had. Unless you and



Annette Funicillo plan to go sarfing, you've per to get ind find wave. It means yout crep to being flooded. The best way to do that a fack on the picture of an irrigation distrib and run a line of trench around one edge of this me of the control of the control

leind of like hooking up electricity in SimCity.

Building roads that go to your
crops is real important cause if you



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den't, you gaing o wear on your machine; of the fact to Solid Soli

By now the imigation disches should have gotten did of the wave, but there will still be a picture of fertilizer sitting smack dib on and you need to spray yout field the sully is poor and you need to spray yout field with fertilizer. Do you like to spray! Here's you chance. Click on the spray batton, drag over to the fertilize option and let ps. Your pointer now looks like a spray can and any field you click on will receive a doucing of the very best electronic manure money can buy. You'll motice that you tractor will pall the sprayer



back and forth across the field real fast and then fread back to the shot. Did tell you to click on the hand icon and move all your cupiapment into the shed yet Ob Well, a limit ruse gives muchinery that quaint, rustic look so belowed by city is, sophisticated urbanites. You can also make the soil more fertile by conting your crops, No, I don't mean going out and thriling your signifectors. In mean going the continue of the continue of the continue of the properties of the continue of the continue of the best properties.

Okay, now your crop is growing. You might want to check on how it's doing by clicking on the magnifying glass and then putting it on the field and effecting again. Up poes your crop's time line with sauses at the bottom showing how it's doing vis-a-vis pests, weeds, disease, water and soil quality. You didn't think a clod hopper like me could use a ohrase like vis-a-vis in a sentence, but there's a lot of things you don't know about us Sims. Depending on the kind of crop you selected to plant, about now you should be seeing some problems with pests or weeds or disease. There are a couple of ways to get your crops sprayed. One way is to just click on the spray you want and then on the field you want sprayed. Another way is to go into the crop's timeline and set up a schedule for spraying ahead of time, but golly if that ain't tedious

But there's still another way to spray. When your farm gets big and the town has growed enough to get an aitport, you can buy a crop duster airolane. You buy fuel and whatever kind of spray you want to put on your crops and then you fly it yourself using your keyboard. As a flight simulator, it's pretty primirive, but the first few flights are fun 'cause you have to worry about running out of gas and not crashing. Don't tell my wife, but I had a good time crashin' crop dusters into different stuff, just to see what happened. I blew up the town real good! Once you get the hang of it, though, spraying with the crop duster gets to be as much of a chore as any other way of spraying.

It's a dam shame there ain't no "autopary" option Cause a body can sure get tried of it. Seems like what really keeps a person from buyin' lots more land and puttin' in lots more crops is knowin' that he's gonta have to papur itself. Heek, once my farm got hige enough, I'd even be willist in pay a percentage of the crop for me, storts like hiring a manager or a share-cropper. Maybe the folks what dreamed up this game might consider it.

Once you've planted the right kind of crop and irrigated and sprayed, there's a good chance the harvest will come in with a "high" or at least "fair" quality, and now we're talking pay dirt. If a ctop is poor, you'll still make a little money, but if it's bad, you're not going to get diddley squar. To make any real money, you have to keep an eye on the commodities market. You can stote yout harvest and wait until the price for a particular crop goes up, or you can do something called a futures contract where you lock in a price while the crop is still in the field. A big part of SimFarming turns out to be checkin' prices all the time, and it would be nice to have a "business page" or a "broker" option that would let you know when the price for peanuts or almonds or apples or whichever of the 24 crops has teached a high price. Still, it's not a big problem.

You can betrow money if you don't mind payin' some goll-durned banker 15% interest. But be careful that you make your loan payments and pay your taxes 'cause those some of gauss will sell your sease, and computed in the distribution of the work of the properties of the sease of the sea

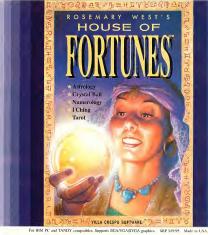
Once you get a little money, you can try your hand at mising cows, sheep, pigs or houses. You build a cornal and put in feed and



water troughs, which are keep full if you have awater owner. Report mediand watered useful shelp it by its coungle to have bubles—that you shall be the properties of the prop

Well, I've go chorse to do so you're on your own, neighbor. It's more perfect, but learning a own, neighbor. It's more perfect, but learning as a humdinger, real tep shelf, which pleaty of advice and just the right amount of jokes. And somebody took a lot of time making Similizm look real purty. Sometimes it seems like you can almost smell the gladiolus boomning. You'll appreciate the sound be sounded blee, in 't that right. Fordely'r own sounded blee, in 't that right. Fordely'r own





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Power Tools For Pilots

Organizing Your Flight Simulator Workspace

by Timothy Trimble

I rout tike me, a die hard Negle Simule was fanisch, tem you probably om a bonde of adeo an excention for the production of the production

free up some hand disk gase.

The folks at Mallard Software, who happen to procluce most of these 154 add-ones, have developed a good houston for managing scenery, sicraft, adventures and orter associated 54 files. The package is called Pulsa's Power Took (PPT), and it included the management unifities. ASD utilities, AGD utilities, AGD utilities, and the Mallard Higher Planner which has been previously re-leased as a stand-olone package.

will organize all of out FS4 files and

Zippidy Do Dahs

PPT uses PKWare's PKZin file compression utility to group and compress files into packages that are easier to manage. PPT will keep track of the files and will allow access and execution of any program within a "zipped," or compressed, file. For example, you could "zip" the entire directory containing Mallatd's Japan Scenery and view the contents of the zipped file within PPT. You could then tell PPT to run Fliebt Simulator with the selected zip file. PPT will unzip the needed files, then load and run Flight Simulator with the selected scenery. When you're done flying, PPT will rezip the scenery files and delete the uncompressed files. And you're nor limited to just one file; a group of zip files can be selected and launched with FS4. So you could select the San Diego, Los Angeles and San Francisco scenery files, uncompress and load the three files, and then fly from Mexico to

The Bay.

ASD Utilities

PPT also provides a set of utilities and reports for use with Airraff and Sensory Deorgaer. Reports can be generated that will list all of the airrigational aids within a specific scenery file. Another report will show the coordinates, radius and all of the navigational aids. The navigational aids include information on all of the runways, VORs and NDBs. Another report will show the amount of over-



hap between vatious scenery files. The utilities will allow a scenery designer to change the boundary radius and the center of a scenery file. A graphic plot can be produced that will show a single scenery file or multiple scenery files showing navigational aids and areas of overlap. This can be quite helpful for someone trying to tim down unnecessary tectitory within a scener file.

AAF Tools

Owners of the Aircraft and Admensure Facer practage will also enjoy a set of utilities and reports. The reports are designed to assist in programming advertures for FAS. PPT and the property of the property

New Generation Of Adventures

One of my favorite supects of PPT is in ability to convert flips plans into adventures for use with AAF. Using the Flipsh Plannet portion of PPT, an armchair plic can create a complete flight plan constituting of departure point, supposite, destination points, speed and altered or notes, and weather could intrough the adventure generator that comes with AAF. The end result is an adventure in which Air Taffic Control will say in touch

with the pilot and issue directions for the planned flight. Deviation from the "filed" flight plan will result in a scolding from the controller unless the pilot has requested permission to deviate. The generated adventure allows for deviation, repetition of ATC instructions, ATC radar check, and flight plan auto-

Final Approach

PPT is a DOS-based program with its own graphical interface. It requires a minimum of 500K of available memory (more if it is going to be used as a shell for loading Flight Samulator 4). All of the program options are presented via pull-down menus and pop-up windows; a mouse is preferred but not required.

Before PPT, I don't know how I was able to manage 50 megabytes of Flight Simulator related files. I highly tecommend it for anyone who is suffering under the weight of their Flight Sim finaticism.

Until next time, this is the Timinator saying, "Remembet to turn your head before spitting from an open cockpit biplane!"

For more information on Pilot's Power Tools, contact:

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86 Computer Gaming World



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The Scorpion's Tale is a warm and comfortable tassers of the mind, complete with a cosy fire of whem imoges. Our resident storyteller conjures up illuminating hints about games, to if our gentle readers exhew hints, let them become?

Go West Young Scorpia!

Our Adventure Game Expert Ropes n' Brands Freddy Pharkas

Ah, it's autumn again, and none too Asson. That wasn't one of the better summers around, and even Fred was grumpter than usual (and that's grumpty). But if you disht the weather was bud, you sin't seen nothing until you take a little trip out west to Consegold, CA... now there's a place with problems!

Yessiree, buckaroos, it's time for high jinks and Lowe (very low) humor in the wild and woolly west (the wild is provided by the jokes, and the wool is provided by the sheep). There's more adventure in being a frontier pharmacist than you ever imagined.

One thing to keep in mind is that the mouse "hot spons" can be troublesome. Sometimes you have to click on exactly the right spot to get a reaction or accomplish something. If you're sure you're trying the right thing but nothing happens, move the cursor around and keep trying.

Okay pardner, before things start to get interesting, mosey on through the town. It helps to know where everything is, and nothing much will happen until Freddy enters the pharmacy, so take the time to learn your way around. And remember the Golden Rule of Adventurings Suraf everything you can get your hot little hands on because you'll probably need it sooner or later.

So it's time to get cracking. There's not much to say about Act I of this sags. Freedy just does his job, filling preceptions. It is all pretry simple—just look up the formulas in the handbook. All right, it was simple until Madame showed up with that illegible prescription (personally, I wouldn't crust any doctor who's drunk most of the time).

Better visit Doc about this one, Freddy. But ya still need to read what he wrote down, and Doc's no help there. Maybe there's some way you could see things the way he does. (Had your eyes checked lately, Freddy? Could be you need glasses, ch?)

Hold on, you're not done yet. Check your handbook on that stuff. Like I said before, this doctor isn't the most trustworthy physician around. Okay, now you can fix up Madame's medicine.

By golly, it's a busy day here at the phar-

macy. No sooner does Madame leave than another customer walcose in. No mixing this time, though; off-the-rack stuff is what you need here. (Freddy disflook over all his stock, right?)

Uh-oh, here comes the Sheriff...and he just

closed down the pharmacy! Something sure is notten in the town of Coarsegold, and Freddy's gonna have to do something about that 'cur no one else is. But first it's time for Freddy Pharkas. Fron-

but that it sume for Pretay, transas, router Hero. You thought being put out of business was bad? Hah? Act II opens with the Deadly Equine Cas Attack. well, we know where flatulence comes from, so let's just move right along here.



First thing Freddy-boy needs is a way to breathe. He's not gonna last long in that gas-saturated air. Check out that blacksmith's very carefully, and drop in on Mom's, roo.

Now ya gotta make the antidote, and that requires a sample (the things a hero last to do...and it doesn't get any better from here on). After that, just analyze the stuff and whip up the right medicine. Be careful where you put it, though. I wouldn't ery stuffing it down a horse's throat.

When! Everyone can breathe easier now. Good work, Freddy! Wair, what's that's Someone just came running in with dire news: A snall stampede is heading right for the rown! You gotta head cm off at the pass, Freddy, or the whole place will be slimed! What do we know about snails? Well, salt would work, but there's none around. Nothing you can brew up in the lab for this, either. I tell ya, problems like this are enough to drive a man to drink, or maybe even religion.

Okay, the snails are taken care of, but now there's that Indian (a real, from-Indiasype Indian) you have to get off that anthial. This puzzle is mete child's play, and soon Freddy has a devoted friend and assistant (optimistic, our Freddy, taking on help when his store is out of commission).

This is no time to take it casy, though, cause there's more problems ahead. All you goets see is half the town lined up outside the single outhouse to know it's trouble on the run (ahem). Good thing your handy handbook has just the solution. Remember this is potent stuff, so make sure it's watered down.

It's been a busy day. Bet you're ready for a good night's sleep, ch? Forger it! You've got more work to do—like putting out the fire before the plsarmacy (and maybe the whole town) goes up in flames.

Now, being a smart pharmacist, you probably figured out that's what the baking soda is for, and you'd be right. But simply tossing the sacks on the fire by hand in't gonna lebp a whole lot. Using that method you can only do one sack at a time. You'll have to dump the load at once, so get into the swing of things and hop to it, because there isn't much time left.

After all that excitement, Freddy's too pumped up to sleep, and that's only natural. Hey, doesn't Madame owe you a little something? This could be a good time to collect on that debt.

So, the Big Boss, the person who's our to destroy the town, is gonna bring in some heavy guns. That doesn't sound too good, Freddy, especially for you. It's time to head into Act III. the bir disguise extravaganza.

So whaddaya need? New clothes, a new ear, a pair of six-guns...some ammo would help, and them shootin' irons could use a good

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This is NPL actions or early your loe scraping the mus from your face. You'll plow through the trendries. Shake off bone-curriching scales, Perform acrosatic cathbase, And choose players based on true-to-life characteristics like blocking and coverage skills, height, weight, and speed.

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view the action from every conceivable angle. Detailed instant replay function lets you quickly analyze plays. And individual plays or entire games can be saved so you can view your greatness (or learn from your mistakes!).

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cleaning. Whitelin' Willy can give you some advice-listen carefully to what he says Bet Freddy's had his eyes on Mom's pie for awhile now. Maybe a "trade" of sorts could be made here. What has no wheels and flies around? (An old joke revamped just for this.)

That should do the trick.

Don't forget to do a little digging (this is a praye matter, after all), and be sure to take a souvenir, too. Gun practice can be easy or hatd (I went for medium difficulty and did okay), whichever you want, just so you get through it.

All right. Freddy's spiffed up, fancy outfit, new car, and all. It's showdown time!

Well, not quite yet, but at least va made it to Act IV. There's a couple of things to take care of before meeting the Boss, like that cheating gambler in the saloon, for one. Don't figure on a straight shoot-out with

this eur-you'll never make it, Freddy. This is where trick shots are better. Put a little bounce into your bullet, so to speak. Ya never know what ya might bring down with it. No sooner is Accour of action than a bunch of drunken cowboys decide to hurrals the

town. You needed this, huh? Well, walking out the front door isn't the smartest move you can make, unless you're looking for lead poisoning. Once more, you gotta be devious (which reminds me, been to the barber's

Good, that puts the cowboys out of action. Hey, what's this? Yes! It's what you've been waiting for-the gunslingers. No more fooling around! This is real slap-leather time. And just because it's done up as a shooting gallery doesn't mean it isn't serious. Blow them varmints away!

That'll show the Boss that Freddy Phatkas is no one to fool with. Still got that old gunslinger touch, he does. Wart...coming up the street...it's (gasp) Kenny the Kid, the same our who sent Freddy to ear-ly retirement way back when. Uh-oh. Can our boy handle this?

Not quite. Sorry Freddy, there goes that other ear. And you got better things to do than lie there in the street, bleeding to death (you took everything from the bank box, right?). Kenny let slip who the Boss is, so you better skedaddle tight on over there.

Oops, the Boss got the drop on you. Good thing it's a one-shot gun; grab something quick, and maybe you'll still have a chance. Or maybe half a chance, 'cause now Freddy's down in the cellar, tied to a chair, and the building's about to go up in flames. Hey, after everything else so far, this should be easy.

Right? Right! So don't just sit there singing "Rocka-Bye Baby." Get a move on to cut those ropes and vampose before you're Freddy

Pharkas, Frontier Fat Soot, Remember, every cloud has a silver lining.

Finally, it's just you and the Boss in a fair fight. Well, kinda fair. What does a gunslinget know about swords? Not much, I'll bet. (I have to admit, I couldn't get through this one, even in easy mode, so I chickened out and bypassed it altogether. Perhaps you can do better.)

And just after you win over the Boss, who should sashay in but Kenny the Kid. There's no time to go looking for your guns; you'll have to take him out another way. Poetic justice, I call it.

Yav! It's done. You've saved the town, cleaned up the bad guys, and you'll even have customers again! Whew!

And that's about it for now. Remember 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 GEnic: 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 United States): Scorpia, PO Box 338, Grazie Station, New York, NY 10028.

Until next time, happy adventuring! cow



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POVERTY SUCKS

Go For The Green in Interplay's Rags to Riches

by Ken Hill

tinuncial games have been popular since the early days of computer gaming. I have fond memories of spending hours creating financial empires with such classic games as Millionaire and Tycoon. In recent years new entries in this field have been few and far between. Sure, a player could build a railroad empire, build a city from scratch, or conquer the known universe, but an updated financial simulation has not been forthcoming. Interplay's new financial market simulation, Rogs to Riches, attempts to fill that void.

The premise of the game is simple. The player takes the role of a budding financial genius fresh out of college who borrows \$200,000 from his parents to get into the brokerage business. Starting with this meager capital, the player can start to build his or her

Success cannot be had without a dedicated staff of professionals. The game provides the player with staff members who will perform their duties quickly and efficiently-for a price. Hiring personnel involves a call to your favorite head hunter: he'll send his candidate for each possible opening on your payroll Six types of employees are avail-

able, the most important for the budding J.P. Morgan being pit runners. These fellows actually make the transactions on the trading floor for the firm. You cannot play the game without pit runners. Secretaries are needed to run your office and screen

hold your phone calls if you can't be disturbed. Then, to keep on top of your financial position, you can hire

an accountant. Having an accountant on staff allows you to get an up-tothe-minute financial statement for your firm on demand. Apprentices are needed, as well, to do some of the mundane trading activities and allow you to attract clients and additional cash to your company. Finally, on the seamier side of the business, you can hire informants, who will keep you up to date on your competitors and the SEC, and lawyers, who can keep you out of trouble if the SEC sets on

The interface for the game is nicely designed. The main office screen provides access to all of your employees, trading information, telephone and other important objects. To use an object, such as the phone. the player simply clicks on the phone book to select the number to call and clicks on the phone to be connected. There are also keyboard equivalents

provided for every possible command, but the interface is clearly designed for the mouse. The office screen is where the

financial instruments and get

major activities take place. The heart of the operation is the trading computer which allows you to buy and sell the various



information about their performance. Clicking on the computer screen will cycle through the four types of securities available for trading. The screen also shows the current price of the security and information about the player's position in the market. A running graph at the center of the screen shows the ily price trend for this security. It's easy to tell at a glance how well this item is doing today by checking out this line graph.

Clicking on the graph portion of the screen takes you to another full screen of information about that item. It shows a daily price trend graph, a monthly trend graph, and a graph showing the player's current position in that security. Information on the player's profits over the last 30 days (as compared to the computer players) and his client base are

The game mechanics work in a way very similar to life. You atrive at your office at 8 a.m. for whenever you chose if you like a relaxed lifestyle) after a good night of sleep. Once in the office, you can take phone calls, watch the newspaper and television news reports, eyeball the ticker, and

PROTECTION

Rags to Riches \$59.95 Thomas R. Decker and R. Leich Andrey

financial empire.

The same offers a choice of two scenarios The first is that of the 1929 stock market crash. This allows the player to participate in the eiddy speculation and tragic disaster that occurred in that year. It's also a good scenario for beginners since there are fewer variables involved in the financial model. Players can reade four of the hortest blue-chip stocks from that era: GE, AT&T, RCA and U.S. Steel.

The other choice is a modern-day environment. In this scenario, players trade portfolios based on blue-chip stocks, bonds, oil and gold futures. Not only is the pace much faster than the 1929 scenario, but players can trade in one of three world-wide financial markets: New York, London and Tokyo,

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So, how does the player know when to buy and sell securities to increase his profite? In Rogra Bitche, like teal life, this is no sure way to predict the future. But the game provides hints and information in several forms. The model for the game is clearly event driven, and an asture trader must watch for signs that might signal a tise or fall in the price of a given



First, there is the ticker. This constantly moves across the top of the screen when the market is open. The information displayed ranges from the very helpful to the extremely silly. Next, there is the office television which in the modern scenario can be tuned to any one of four news channels which occasionally flash bulletins that can affect the market. Also, you can go out on the street and purchase a foreign or out-of-town newspaper. Sometimes these articles can tip you off to trends before they statt to affect the market. Finally, you can talk to the insidets who specialize in the four issues being traded. Talking to insiders can be extremely rewarding, but players should be aware that they are not always right, and many times different informants will give conflicting information. If you spend too much time on the phone with insiders, the SEC can set suspicious and start an investigation on your firm. The SEC can fine you big bucks and even but your firm from trading in certain securities for a period of time.

Players can take either long or short positions. A long position is the standard way to make money in the marker. The player buys a security and hopes the price goes up so the shares can be sold later for a profit. A short position is where the player sells shares be doesn't own and waits for the price of the security to full so be can fulfill those obligations at a later date. In the early going, players will be forced to "go short" because they simply don't have enough money to buy many shares.

Conce you've sure them y success of the control of

you manage over your entere.

The player needs to be careful not to spend beyond his or het means, because making money in this game is externedy difficult, and keeping it is even hatder. Game time passes by quickly, and even at the slowest speed you must move fast to eath the profitable rends. On the old decision the street sleeping under a blanket of newspapers, especially early on. This is

on a game for the faint of heart or those interested in a light simulation. To succeed in Rugs to Rickes, you must be delikated to the task and be willing to spend plenty of time to learn the game.

Rugs to Ricker has all the supporting chements of a good game. The interface is easy to use, and the screens are well-drawn and colorful. The sounds support

drawn and coinctul. I he sound support is top-north with crisp music and excellent voices (particularly the socretary asking "Will you take a call please?"). The documentation is good and even includes a concise history of Wall Stroct. However, the same doesn't work as well as it should.

Fins, the game is entirely too long. It can take several hours to get a game underway, and to play an entire year of game time (the recommended game length) can take 40+bours. There are many times, especially seally in the game, when the player will separate in the game, when the player will separate in the marker. There are mays to water time quickly filter entirely going nothing except wining for the marker. There are ways to water time quickly filter entirely going even the player will be the marker. There are ways to water time quickly filter entirely going to be the player of the game and make it playable in an exercise or row.

Also, the finencial marker simulation might be too tealistic. You can have a hot tip from an insider, sport a news flash on your office TV (not an easy thing to do considering you have to be on the right channel and be watching it instead of some other part of the screen) and still be wiped out because a security did the opposite of what the pundits predicted. Realistic, yes, but it makes for a fursarraine game. The cas-



ual gamet can become frustrated quickly with a game that is too hatd to master despite their best efforts.

While realistic in some ways. Rass to Riches doesn't have enough options to be a true "financial market simulation." You can't, for example, use margins to leverage a good long position. Your initial stake of \$200,000 is woefully small and to make big money quickly (the kind you need to build a staff and get tolling in the game system) requires that you go short. This makes the 1929 scenario very difficult because prices are going up in a speculative bubble right from the first day. Interplay should have considered upping the initial stake in the beginner level to \$1,000,000 or more to help novice players get a better understanding of the system and avoid the initial frustration.

Clearly, the creators of the game walked a fine line between "simulation" and "same" when wotking out the details of the design. This belance is important in any complex game. Unfortunately, it is too difficult to artract the casual gamet looking to amass fortunes duting an evening's relaxation, and it is also too simplistic to attract the attention of the financial enthusiast who wants the challenge of running a Wall Street portfolio. If you are willing to spend the time to learn the game and understand the limitations of the system, Rogs to Riches can be a rewarding experience. For most players, though, the tetutn on the time investment needed to enjoy the game will be too small to justify the expense, tow



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EA Comes Out With The Walsh

Electronic Arts' Bill Walsh College Football

bu Wallace Poulter

shough I can usually be found tethered to my computer playing one sports game or another, occasionally I have reason to venture into the living room. There resides the SEGA Genesis, and beside it a small stack of SEGA sports games that have earned my respect. Electronic Art's NHL and NHLPA Hockey for the Genesis are two of the better sports products on the market. In fact, if you have a friend around, the two-player version of NHLPA Hockey is excuse enough to purchase a Genesis machine. I've recently ded another game to my stack, Bill Walsh College Football, the latest sports product from EA. Here is one more reason for sports junkies to consider the Sega Genesis, for Bill Walsh College Football provides the best sports action yet to be seen in a cartridge product.

Walsh, the man, has always been an intestsing chatacter. Known primarily as a store of quarter-backs like Ken Anderson and Dan Forux. Walsh was passed over for the Bengal's head coaching position in one of Paul head coaching position in one of Paul international properties of the paul to cook which was a reasonable success, but it took Walsh until his third year as an INFE tooch just to wim more than two games per year. However, multiple Super Bowl victories have and an industrion into the Por Football Hall of Yame, the tag of Certinas oction approxlate and an industrion into the Paul Paul Hall of Yame, the tag of Certinas oction approxtudes the part of the part of the paul properties of the paul prop While there were the occasional first tound blunders (Todd Shell, anyone?), his ability to pull quality starters from the middle rounds was ultimately the foundation of the Niners' dynasty.

The terum of Walsh to Scanford was something of a coup for the college tank. In his first year, Walsh not only make Partern and Fenn Stare look silly in a Blockbuster Bowl blowcut, but to the ever garteful millions of Norte Danschaten, he well and tunnel to Norte Danschaten, he well and tunnel to Norte Danschaten and Cheese Party Holtz in his place. At the logger must his college are all Blueble literated parts of external services and the services and the services and license was quite a coup for EA and a great boom for artifact genetic game.

While EA took pains to point out this was a new engine, players of John Madden Football will feel right at home. Character animations and the effects of different field conditions are very similar to Madden, and the standard Madden all-time great and playoff options are included. However, it is the AI that sets this game head and shoulders above any other sports game, Simply put, it reacts. Most sports games, especially carttidge ones, have laughable artificial intelligence. Usually a single play can be found that will generate a first down, or even a touch down, every single time. In the case of Bill Walsh College Football, the AI adjusts to your play calling, If you continually try to run a play up the middle. you will soon notice that appropriate defensive formations will be called and the linebackers will start to edge their way

toward the line before the snap.

Moreover, each segment of the team has a rating. Some defensive backs will have excellent coverage, while others will be only so-so. This means that a play that is routinely successful against one opponent will not be so against another. In addition, some teams will be more aggressive at hitting a receiver

within five yards of the line of setimmage, throwing off the pass pattern of even the best receivers.

Game options include Exhibition, Playoff and All-Time Playoff. In the latter, "All-Time" teams of the last 15 years match up. Here the Bulldogs of Walket and the Tigers of lackson can be found, along with the Bos-



ton College team of Fluies and the Mation team of Pitt. It remember Matino was pretty and the pitter of the pitter of the pitter of the colled "great". There are some pretty nice matchage. The standard EA playoff res is used. While this is enjoyable, it would be nice to have some kind of league option. Most firm with to have a college playoff street, and the college playoff street with the Bord Games being used a playoff sites. A number of ideas have been put forward which would include the top. 16 teams in a Bordtical format for Bill Widels Callers Footkall

Bill Walsh College Football



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where the player would have to play well enough during the season to be ranked in the Top 16, and then would try to make it through the playoffs.

through the playoffs.

A number of piptions are available prior to the start of the game. The Wohls Report is the start of the game. The Wohls Report is the start of the game. The Wohls Report is "Les Aports Revork" idea. The lame "advise" and "information" that Walsh gives remind us all why the left the broadcast booth in the first place. Weather can play a significant of the pipting of the p

The team Matchup report is a little more

useful. Here each segment of the team (linebackers, secondary, etc.) receives a rating, 8x you can see below. Michigan is given an overall tanking of 85, with an 85 on defensive line, 79 for the linebackers, and a team low 70 for the secondary Obviously, an arack on the secondary should be in the Tallahassee game plan. Michigan 85

sounds and tips. The stands of the Normal for thoosing deferency and officanity plays in used. Eight officanity formations are available, ranging from the Shoogan to the Walbborn. Each formation has a number of plays available within it, allowing for a reasonable expcollege game plans. The interface in particultric well designed. To run a play manufact, the QB snaps the ball (one button push), lock at the receiver (second button push, and throws the ball (third button push, and throws the ball (third button push), and throws the ball (third button push), and throws the ball (third button push), and throws the ball (third button push).

with only the snap of the ball controlled by the player. The Wishbone is rather difficult to run manually, so coaching the wishbone can often yield more success. Receivers too can be manually or automatically controlled, and the ball handler has a variety of spins and dives up his sleeve to evade his putsuers.

Defense too, has multiple formations and plays. Unlike other sport cartridge products, an "all or nothing" strategy will usually leave the defense with nothing. Sound, defensive play calling must be used to out-play the computer opponent.

The teplay mode has two standard perspectives: offense and defense. While useful and entertaining, the replay still has the tendency to "skip" a little too much. This is one of the few areas where EA could do some work.

Much to my chaggin during one game I had forgotten the College rule of not being able to advance a fumble. In this case a Wishbone QB had thrown the ball away and nothing stood between my player and the end zone. Other college rules, such as the two point conversion, are also available.

Sophisticated PC-based games still rule the roots in the battle of sports simulations. However, Bill Walsh College Football joins a growing list of quality sports products that make the purchase of a video game system more than worthwhile. cow

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Multi-player games via modems may be the next big wave in computer entertainment. How do you make the leap to cyber-space? Step in the virtual offices of the DataComm Council, your "off-line" source for "on-line" information.

by Jerry Golick

your friendly stepping stone into the new virtual realities. Here you will find techniques, advice, and useful tidbits to make your electronic explorations a more rewarding ex-

perience. As this is our first day of operation we are offering, free of charge, a review of basic information that will be essential to the telecommunication novice. The recent CGW issue on telegaming (May '93) may have tantalized you with many of the game opportunities available through the networks, not to mention the ever increasing number of games that offer direct modem-to-modern play. The battle cry of the

rectings fellow travellers of cyberspace. Modern Gamer is "Artificial Intelligence

Welcome to the DataComm Council, stinks! Give us brains!" But hooking up brains requires that you "jack-in." Today we will

show you how to get started. How Do Computers Communicate?

Before choosing the right mix of hardware and software for communications, you should have some understanding of how computers communicate. While there are many variations, we will concentrate on something called "serial" communications

In serial communications, data is transferred between computers one bit at a time. In other words, by changing some characteristic (generally the frequency) of the phone line linking

two machines, we can signal a binary value (1 or 0). Too complex? Think of it this way, back in the days of the telegraph the only data that

could be sent was a dot or a dash. The "order of the dots and dashes conveyed information. The same thing happens with computers,

only much, much faster. Instead of using dots and dashes, computers use tones. If you listen in on the conversation between two computers you will hear a high pitched warble. This is the computers varying the frequency on the line. One tone is used to represent the value zero" and another is selected to represent one." The speed of the computers' conversation will be governed by how quickly this transition can occur. Generally we refer to the

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Conflict: Middle East Decision at Gettystury Dreadhquotts florrurk 529 Dreadnoughts Ironglads \$25 NOV COW 5 speed of the line in terms of the number of bits we can send every second. So if you see 300 bit's, you know that you are

sending 300 bits every second. Serial communications is divided into two broad eroups: asychronous and synchronous. Synchronous is used for very high speed, industrial-strength communications. We're not soing to talk about it right now. Besides, 99,99% of all modern sames are written for asynchronous communications

In asynchronous communicarion, data is transferred in logical groups called bytes. A byte is normally 7 bits

long. Surrounding the byte is a small "enveof three bits. The first bit, called the "start bit," signals the modern that communication is about to start. This is followed by the byre (also called the seven data bits). Following this are two more bits: one is called the 'narity bit" and the other is called the "stop bit." The parity bit helps the remote computer verify that it has correctly received the byte. and the stop bit marks the end of transmission.

Why do you need to know all this? Cyberspace is a tricky place. At times you will be asked to set the communication parameters to access a particular network service. You may be asked to set the number of data bits, parity bits and stop bits. For example, "8-N-1 would mean cight data bits, no parity bits and one stop bit. In all communication software there will be an option to set these parameters. Okay, enough theory. After all, we're here

to have fun. Let's see what we need to get started. Please have your credit card handy.

What Do I Need? The critical piece of hardware is the modern.

A modem is a device that MODulates and DEModulares (bence "modem"). It converts the digital signals from your computer into tones, and back again into digital signals. Modems come in many shapes and sizes, and choosing the right one is not always easy.

To start you should have some idea of the primary uses of your modern. In general, nighly interactive ourning (such as flight simulators, car racing, etc.) will require a high speed modern. On the other hand, if your interest is in strategy/wargames (Empire Deluce, Command HO, Conquered Kingdoms, etc.) a slower speed modern will probably work well.

If you are considering connecting to a commercial service (CompuServe, GEnic, Prodigy, America Online, ImagiNation Network, etc.) a low speed modem is probably best Most of the games on these systems have been designed to work with 2400 bit/s modems, so having a higher speed does not bring additional performance. In addition, all these serv-



higher speed modems is if you intend to transfer (download) large files to your computer Since the file transfer is done more quickly, your total time connected is reduced, and you will save a considerable amount of coinage that can be applied to the serious pursuit of game playing

By the way, low speed modems are generally 2400 bit/s and slower. High speed moderns start at 9600 bit/s and up. Expect to pay between \$50-150 for a low end modern and \$175-400 for the faster models. As a general tule, ensure that the modem you purchase is "Haves-compatible." This means that the instructions used to communicate with the modem match an industry standard developed by

Should you get an internal or external modem? Good question. Here at The Council we are traditionalists. We like to see lights flashing on our modems. It gives us a sense of security to know that something is happening. This will only be available with external moderns. However they do take up desktop space, require more cables, and are generally more coversive than their internal cousins

Internal modems are nice and tidy: one phone line connects directly to your computer. But you will have to open up your computer to install the internal modem, so if you're not comfortable with the inside of your computer, keep it simple and use the external

We also recommend considering a portable modern. These moderns come in very small packages and can travel. If you have a laptop you may want a portable modern to stay in touch with cyberspace while you're on the road. Expect to pay a premium for these wonders of technology

You'll need a few other things to link you into the world of cybergamers and other network travellers. You will need a telephone line. While it is possible to use your home line, you may want to consider a separate line just for the computer. Why? Because we have shares in AT&T that's why! Actually, the problems will be on the computer for long periods of ices charge you extra for a high speed time; this will upset family members as well as geration, the \$6/hour connect charge can add connection. The only reason to consider the make it difficult for people to call you. Other up in a hurry. Be careful. You've been warned.

people may pick up an extension in the house by accident and break your connection at some critical point. Also, when you are having a problem using the computer, a separate line allows you to get "voice" help while the computer srays on-line. A separate line should not cost too much and would be a worthwhile expense. Do you own two computers? You

may have heard of "direct connect" gaming. This is when two computers are physically adjacent to each other, and the two communication ports are attached directly to each other without the use of modems.

owever a special type of cable is required. This is referred to as a "null modem" cable and should be available in any computer store for under \$20. For the ultimate in high speed connections,

consider a local area network (LAN). With a LAN you will be operating at speeds of 10 Mbit/s and beyond. Certain flight simulators (Falcon 3) and combat games (Robosport, Specpre) already support LAN play. Unlike the null modem which limits you to two players, a LAN can support 30+ (assuming they develop games for that number of players and you happen to have 30 computers laving around). Those of you working in offices with LANS may have already experienced the thrill of high speed gaming, Expect to pay about \$400-500 to set started and about \$100-150 for every machine after the first two.

Do I Need Any Software? While most multi-player games have built-

in communication software, you may wish to consider buying a communication program. There are many of these available and they are generally less than \$100. A communication program will allow you to contact bulletin hourds, other microcomputers, and may even allow you to access the computer at your office (assuming that you have any time after game playing). The selection of a communication program depends on what operating system you are using. Ask at your local computer store for advice.

While out getting your communication software you might want to consider a "starter kir" from America Online, CompuServe, GEnic, ImagiNation or Prodigy. Since all of these kits include some free connect time, the cost is minimal. These kits simplify connection to the service and generally provide introductory tutorials. A word of warning: Multi-player telesaming and bulletin board communication are highly addictive! Massive credit card charges are a distinct possibility. We saw one fellow post a note on GEnie saying that he had with using the house line are numerous. You spent \$15,000 over a three year period playing eames! While this might have been an exag-

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Magatortress Maga-Paik \$35 Power Hits Battleweb Power Mits. Rots 89 Power Has Movies Power Hits Sports Proce Time Hits. Pame Time Mile 2

One thing that you may want to change is your operating system. If you use a Macintosh you may want to upgrade to System 7. IBM PC users should consider OS/2, Windows or Windows NT. Why? Preemptive multitasking that's why! We hear the groaning out there; okay, no long technical discussion. To make a long story short, the new operating systems allow you to perform more that one thing at a time. This is very useful if you are in the middle of a large file transfer and still want to play games, or perhaps play multiple games against multiple opponents. Here at the Council we've been using OS/2. It's not bad, but you should have a powerful machine with lots of memory to run it properly.

Ok, you have the hatdwate and the software. What's next?

Get Up, Set Up, Dial In You have your modern, cables and software

all ready to go. What's next? There are three steps that must be followed before you can jack-in. You must 1) Install the modern, 2) Install the software, and 3) Configure the software. Let's take you through it.

Installing an external modern is relatively simple. Generally there are three connectors at the back of the modern. Two of these are telephone jacks like the ones we use for the phone. These jacks are normally labeled "Line" and "Phone." The idea is that the modem will sit between your telephone and the wall connector. Unplug your phone from the wall and insert the jack into the "Phone" slot on the modern. Then, using the phone cable that is normally included with the modem, connect the "Line" slot to the telephone connector on the wall. Ok? Now it's time to connect the data cable from the modern to the computer. Take a look at the connectors and notice that they will only fit a certain way. Do not try and force these connectors or you will break them. The connectors on the data cable generally have setews on either side that you can use to secure the connector to its socket. We suggest that you use them. See the "Basic Connection Diagram" for details.

Installine an internal modern is a little more complex since you will have to open up your computer. Follow the manufacturer's instructions. You will see that the modem card only has telephone connectors. Install these as we described with the external modern

all microcomputers come with one or more ports, or connections, for serial communications. On IBM-compatibles these ports are referred to as "COM1", "COM2", etc. If you are using a mouse on an IBM compatible, then you ptobably have it installed on COM1. Make sure that you follow the instructions and set your modem to operate on COM2. That's it. Your modem is installed. Onto the

If you have outchased any communication software, follow the manufacturer's instruc-

tions on installation. If you have same software already loaded on your machine you may have to run the setup program again to get your modern working. For example, Empi Delice requires you to tun ECONFIG.EXE to inform it that a modern is now available.

Regardless of the software you are using, there are a number of parameters that you must set before you can start playing. Make sure that the speed set in the software matches your modern. Also make sure that the software has selected the right COM port for your modern. Generally the servine of 8-N-1 will work for access to most services. All of these parameters can be adjusted through a single screen in most programs. Check your instructions.

Some programs also provide you with the capability of creating directories of commonly called numbers. This is a great place to keep all the numbers that you are going to call With some programs you can even change how your modern will operate when switching between services. For example, you might use "2400 8-N-1" when calling a friend but "9600 7-E-2" when calling your office computer. It also means that you don't have to keep all these phone numbers on little pieces of paper that get lost.

course there's mote! There are script languages, uploads and downloads, error proto- waiting for you. cols, data compression, and ... well you get the idea. But we don't have time to cover all that

today. One last freebie. If you get connected, but can't see the letters as you type them, or each

What's a duplex? It doesn't matter. What does matter is that you find the place in your software that allows you to change it (sometimes its called "Local Echo" or just "Echo"). Thete are only two settings, so change to the other and everything should work fine.

But I Have More Questions!

Of course you do. That's why the Data-Comm Council was formed-to help people like you jack-in to cyberspace. Drop us a line and we'll see what we can do to help. Once you're up and running, drop us a note on GEnic or CompuServe. If you're having trouble then write us cate of this magazine. Interested in a particular topic? Let us know. The services of the Council are available to all.

This is just the beginning. Already there are video conferences, audio conferences and combined multimedia networks up and running. How about 100+ players flying combat missions in WWII? How about football simulators where every position is played by a telegamer? How about strategy games where each side can have multiple generals? Tited of Is there mote? What do you think? Of playing against computer logic that is either too easy or too hard? Jack-in to the net. We'te

Jerry Golick is a freelance consultant and writer who specializes in data communication issues. He is based in Montreal, Ouebec, He may letter is showing up twice (ie: DDOOUUB- be reached at 71175,1011 on CompuSerue or BLLEE) then your duplex is not set correctly. J.GOLICK on GEnie. cow

Basic Connection Diagram - External Modern A quick note about "COM ports": Almost RS-232 Cobie COM 2 To Modern WAS AND WAS THE E

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Jack Nicklaus CD 5 NOV COW?



Time Warner Interactive Group's New CD Takes You for a Ride

by Andy Eddy

"and Raul seems friendly enough. I always

The traveler's tales of New York City cabbies are well known: running through red lights, U-trava 870 mph, and shortcuts over peckestrian-filled sidewalks are the hortrifugs stuff of which they're made. Even cubby names have come to possess a certain notoricy, Jerry Schridd described one as "something like the letter G and the symbol for Boron."



Anyone who's been there and goal the fair a centality ready for a trip with Raul, the accentance of the street of

wanted to see the Empire State Building." He apparently overlooked the 666 on the liceuse plate and the company name, Hell Cab. This won't be the average, everyday white-knuckle thrill ride through the Big Apple.
When he's short a few builds to pay the fare,

when he subtra few totase of pay the late, equick-thinking Rual (unrely, he's done this before) whips our a piece of paper contract that pays his fare our of the player's contract that pays his fare our of the player's contract that pays his fare our of the player's contract that pays his fare our of the player's contract on each pay his fare to the pays that pays he pays

Hit The Road, Iack

Hell Cab, designed by artist Pepe Moreno, is constructed with a point-and-click interface that is reminiscent of previous multimedia adventures like Manhole and Cosmic Ossus—and that pair

were less games than Hell Cab. Even with gaming elements, though, Hell Cab comes up short in providing durable enternament for one main reason: It's ve-e-y slow. Quicktime, Apple's "movie" extension, is a good application for





creating movies on the Mac, but even with a fast machine the access time can really bring the action down. This is no arrade game, to be sure. Every event hangs on each mouse click to be registered and new data streamed in from the CD. Maybe a lesson could have been learned from Drew Pattures' Iron Heldie (by Spectrum HoloByte for the Macintosh), where certain essential files were held on the hard drive. All of Held Eds, with the exception of the Quicktime extension, comes off the CD on the file.

> Hell Cub 599-99 Macristah Med I with a LT color mondor, Med II with a LT color mondor, John R. W. Challow (days and system 64) of highly Sygens TO recommended None Page Macrosoft Sport Nonese Predictions Traw Waver Innanchus Casop 2210 W. Cibbs Average

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With that in mind, it's hard to categorize Hell Cab as a game, though it is cortainly interactive. One starts with three lives, and lives are lost when poot decisions are made. The player also has a quantity of soul (registered on the Soul-O-Meter, Raul's dashboard device that measures one's fare) that must be carefully monitored. The interface requites the player to click at the screen edge to turn 90 degrees or click straight ahead to move forward. As in sames like The 7th Guest, the pointer changes to another symbol when an action can be accomplished. At certain junctures, one can pick up items, click on text buttons to speak to other characters, and hit the mouse button to achieve a particular morion (like swinging a sword). It was disappointing to not have these few movements duplicated or expanded upon via the key-

Graphically, most of the display is simply a two-dimensional image with characters laid over the top. Most characters move in jerby calmination and their mouths after it of the lip-synched with the suddo. This serves to goy Half Cab were yearsteal look and feel, but also weakens six chain of being a state-of-theare CD adventure. And though the game is filled with digital suddo, there are sections where the sound is sparse or non-existent.

Movie Magic

Even with those hindrances, Hell Cab has some highly entertaining moments. Visiting the Empire State Building, one can wander

the halls and click on picture frames to bring up Quicktime movies. These "films" range from plugs for other animators (such as ohn Ludtke, who helped on Hell Cab. but has also worked on another interactive CD, The Freak Show with the music group The Residents) to satirical clips from "The Dead Sullivan Show," to advertisements for upcoming products, and even one for Wired magazine. The trip through the Empire Stare Building also features accurate images from around the 86th-floor observation deck. If players pull out a quarter and toss it into a telescopic viewer, they might even be

able to see Rolamore!

Overall, though, everything in Hell Cash took to drag out. For example, when one reaches the Collissum, no matter how the conversation with New goor the player ends up in jail. In jail, the conversation stude the player than the conversation of the same characters. At other times, one can't decided if mining of the mouse clicks is important or if placement of the pointer is the key. After a while, it all just seems to be a long, one-way street with little variation and not much in the way of enter-tainment. It's all but teditions.

A Journey Of Sight And Sound

It's hard to lump Hell Cob in the same group as The 7th Guest, Iron Helix and Journeyman Project, which were all actual garnes. Hell Cob is more like an interactive tour book and variety show lumped into one—the sights and sound of Hell Cob I had

the most fun clicking on the Empire Same Building's cursain displays to bring up cool Quicktime movies, but things cally started to pled along when I started playing what I felt was the "game." This is not hatd to understand when one reads Pepe Moreno's bio (located in any ATM in the game. His background is in comic books and stories, having been published in such magazines at Islamy Metat and Epic. He's also responsible for DC Comics' Digital Justice, a Barnay



graphic novel created totally on the Macintosh. His expertise is the visual, leaving the reader to expand on the pictures in his mind.

But gamers have gotten used to having less left to the imagination and facing more immersion by the game software. A good game is one that makes the player forget he's at his computer playing a game. Too frequently, Holf Cab brings our light back to his seat in front of his keyboard. When one is waiting for a mouse click to bring about a new visual, the delays can be interminable.

The future of CD gaming is quite up in the air, though products like fron Helix take the weaknesses of CD-ROM and push them to the back. Hopefully, the medium will quickly mature and Morreno will be able to create a world of sight and sounds that will ruly entertain and offer smoother immersion into his creative vision. stow

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Unidentified Flying Vegetables?



A New Spin On The Flight Sim In Corncob 3-D

by Bryan Walker

An avul computer garee and flight simulator fan, the author is also an AH-64 Apache pilot and Armanusco Officer for the U.S. Array, A combat veteran of Detern Storm, be's currently tatabased as Forr Casuphell, Kentucky, He can be reached on GEnic at B. WALKERIO, or America Online

wides are hard to come by in Higher cally, simulator games. While, technologically, simulators are returned to the cally cally simulators are returned to the commercial solvent houses training to Hy in loops, it's refreshing to see a new entry from the shareware sector, Garmond-Jo-The Other Worlde Comparign, putting a new spin on the centre.

Weird War II

Gamers who remember DC Comics' old Weird War title will feel a bit of déjà vu. In Carneob 3D, the past as we know it never took place, WWII never happened, Instead, aliens swept down on the Earth in 1938 and rapidly besun setting up bases. After a fierce war, mankind liberated the earth. Though winning a brief respite, humanity realized that total victory could only come by ridding the cosmos of the alien scourge. Now, the player takes the fight to the enemy on many different planets, flying wildly modified "Corncobsh (an old nickname for the Vought F-4U1 Corsair of WWII fame) and experimental Stealth Fighters against incredible odds and superior technology.

Virtually Unique

The term "virtual reality" has been abused like nothing else in computer entertunment. However, Correcto 3D delivers one of the best attempts at a VR-like 'living environment' in a flight sim bike 'living environment' in a flight sim bike 'living environment' on a flight sim bike 'living environment' at a living to fair and the Corrord 3D universe, destroying the enemy is all that counts. Rarefy is there a required sequence, order, or technique to winning. Kamitkaxe attacks, dashing around on foot to place

satchet changes, calling in and procecuing reservants, leaping from structure to structure, and even destroying friendly buildings are all possibilities in any mission, at any time. Total, witnut, freedom is perhaps the greatest tempth of this game. Landing a chewed-up plane, climbing into sancher, and taking the fight right back to an enemy that doesn't mugically regenerate provides a "suspension of disbelied" the few titles can approach.

The filled polyspa graphics of Cornords 1D are rendered in Fecolar VCA. Dopped 1D are rendered in Fecolar VCA. Dopped 1D are rendered in Fecolar VCA. Dopped 1D and so soft-serve cone, and the effects simulation is smooth as a soft-serve cone, and the effects instituted and according explosions may be the best Vesser. The coatistic would it displayed with the saminated to simulate acroal head-enringe, a renewise mirror is continuously displayed, making it entire to awould be guided missing and when the effects of a bombing missing and when the effects of a bombing provided, giving the play a 20-degage perspective on the play as 20-degage perspective on the

While Cornook 3D has been released in smaller versions, the "Other Worlds Campaiga" has 130 forays and a mission-building untility, There's also a "Secret Mission" for the trally determined player. The challenges of the numerous thacters of conflict range from the very easy to the astonishingly difficult. The different amospheres and gravities of each planes require players to constantly after their tractis. Though the number of enemy types is somewhat finited, the incredible veracy of emplacements repeatedly calls for new

tricks and fancy flying, Even the best sim jocks could spend weeks finishing the entire campaign.

At first plance, the small roster of targets might seem unimpressive. However, the game uses elever mixes of target types and outlines to challenge the player. The static targets consist of fuel dumps, antenna arrays, construction facilities, and generator orbs that power various defensive force fields. While some players might contider these targets easy pickings, there are insidious boody-traps just waiting to same the unwarty pilot. The active enemies range from three-wheeled ground transports.



to flying saucers, guided missiles, and the aliens themselves. The formidable anti-aircraft defenses include invulnerable barrage balloons, flying debris called "bee swarms, articulating cannon turrets, mortars used to deny low-altitude approaches, and the persistent guided missiles. The quality and lethality of the alien devices is indicated by a variery of colors. For instance, a brown object isn't much of a threat, but bright white objects are simply bad juju. Despite the overwhelming superiority of the alien forces, a clever pilot can use the easter enemy's strengths to advantage. Nearly everything can be destroyed, and it doesn't matter whose weapon does the damage

Corncob 3-D: The Other Worlds Campaign

FILE Corecols 3-0: The Other Weeks Com FRCE: 523 SYSTEM EM 236-126/Fu, VCA graphins, 246-126/Fu, VCA graphins, 246-126/Fu, VCA graphins,

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Conscob 3D is not designed to appeare those amers who demand the utmost in realism. While both the casy and advanced flight models are smooth and believable, many rechnical details have been omitted (landing grar, for instance). Designer Kevin Stokes explained that the main effort behind Corncob 3D was to make it challenging yet enjoyable for casual PC gamers. Effectively unlimited ammunition, forgiving flight characteristics, rechargeable rocket boosters, rapid repair, and even the ability to remotely control the plane after bailing out makes Corneol 3D patently unrealistic, but lots of fun!

With a \$2000 486 system required to truly enior most of today's flight sims, those with lower-end machines are getting the fuzzy end of the lollipop. If the cause of the lower-end machine could have a champion today. Comcole 3/D would be it. While it doesn't run with quite the smoothness of a higher-end system.

it's still an enjoyable game on a 286 or 386SX. There are many other minor features built into Corncol 3D, ranging from comprehensive intelligence reports, time compression, teleport portals, a "boss" screen, sound editor, map mode, congratulatory sequences and others. They all contribute to a good game, Even so, there are some limitations and oversights that could be corrected to improve the

quality of play.

Causes For Grounding

Perhaps the greatest weakness of Corneolo 3D is the total lack of terrain features. Each planet is, for all practical purposes, a big pool table rife with bad guys. While this keeps the same running smoothly on lower-end machines, the flat landscape is a step backwards for those of us spoiled by Falcon 3.0 and Comanche: Maximum Overkill. With much of the game spent skimming the ground to avoid cannon fire, the absence of terrain features detracts from the experience.



The mission builder is powerful, but it's certainly not easy or intuitive to use. Gamers without programming experience will probably find designing scenarios for Corncob 3D to be very tedious. Fortunately, the missions available on-disk offer plenty of variety and challenge.

Steely-eyed dogfighters might be dismayed

to find that Corncol 3D doesn't offer any thing resembling the air-to-air combat of other flight sims. Since the only aerial opponents are the erratically-maneuvering flying saucers, "turning and burning" doesn't hap-

While most of the simulator industry is embracing numerous control options such as the Thrustmaster accessories, Corneob 3D has no provisions for anything other than a single joystick and keyboard control. This omission becomes significant when trying to land a badly damaged plane under the advanced flight mode option, or in the heat of battle when many actions need to be taken quickly. Hopefully, any future version of Corneol 3D will make allowances for alternate control options.

Share And Enjoy

Those who think of shareware games as second-string entertainment will be pleasantly surprised with Corneob 3D. This game is intelligently designed, casy to learn and just plain fun. While it lacks some of the chrome and graphic "wow-power" of high-dollar titles, Corneob 3D offers some new ideas that will certainly be seen in future games. If some sort of price/challenge/fun formula was developed to measure the worth of today's games, Corneob 3D could stand nose cone-tonose cone with any flight simulator out there.

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BEST OF THE REST

If I Had A Hammer...

Building Your Own Games With Shareware Tools

by Chuck Miller

on San Puzzled Expressions

With the remainder of this column we'll look at several puzzle games that have drifted ye, across my desk. These games are Boogle Lone love (a Boogle clone), Two (a Solitaire card game) and Praezel Pits (a logic puzzler), and breazer addictive. You have been warned.

Those familiar with the classic word game Boggle will know exactly how to play Seaboard Software's Boggle Defaux, a game of word construction against the clock. While the 'trial version' is rather limited in play value (only four unique games are available) and soon becomes repetitions, it offices enough play for one to decide if he or she wishes to put up cash for the registered versibles to put up cash for the decided to the registered versibles and registered versibles to the registered versibles to the registered versibles and registered versibles to the registered versibles are registered versibles.

As expected, play is similar to the original table version of Bogofe, the goal being to "discover" as many words as possible within the set dine limit. These words are constructed by connecting letters vertically, horizontally and diagonally and must be at least three letters, but no more than 18 letters in length. Each letter can only be used once per

word.

Bosgle Deleaw, however, does the old standby one better by allowing the player to adjust certain features. Srid size can be tog-gled between four-by-four and me-by-five to the control of the con

opponent challenging competition.

The only major drawback is the \$30 registration fee—steep for what the game offers.

Though the VGA graphics are pleasant



Booele Delon

nless you've been initiated into the mystic cabala of computer programming or have invested mega-bucks in software development tools, game design has been out of your reach. Game construction kits have appeared in various forms over the years, but all, with the possible exception of SSI's recent Unlimited Adventures, have met with little success: either they are too difficult to use or they do not offer enough power to create anything tesembling an interesting game. Fortunately, there are always exceptions. The exceptions in this case are two popular and powerful game creation systems that have cropped up among the grassy toots of the shareware realm.

Adventures By Number

Adventure Game Toolkit from Softwarks and DC Gamer from DC Software are two of the leading sharewate gaming construction kits. They both allow the non-programment to create computer games, though they approach the task from different angles.

The Adventure Game Toolkit (AGT) is ptimarily a text adventure construction kit. available in one of two versions: the Classic Edition and the Master's Edition. The Classic Edition has been available for six years, undervoing a constant process of refinement. It is relatively simple to use, requires no programmine knowledge, and has a very dedicated following of designers and players. Hundreds of games have already been created with AGT, many still available on most major networks. Versions of this edition are available for MS-DOS, Macintosh, Amiga and Atari ST computers, and adventutes created on one of these systems can be easily re-compiled for use on any of the others. A modest shareware fee of \$20 is required.

These designs more absorbal exercises of properties and be interested in the Mater's Edition of AGT. Available only for MS-DOS machines appressed (though compatible with all games developed for the Cleake Edition) all games developed for the Cleake Edition of the Control of t

ce Softworks, 43064 Via Moraga, Mission San Juse, CA 94339. Orders can be placed by phone using Missectard or VISA at (510) is 559-0533, 9:00um to 5:00pm PST only, Monday - Thursday, Saturday and Sunday. Fans of the early Ultima games should take

Fans of the early Ultima games should take a look at DC Software's game building system, DG Games (DC). With it, games can build graphic adventure or role-playing games similar in form and function to Ultima III-V. While more difficult to use than AGT, it also allows the crustion of more graphically pleasing productions (the reverse of AGT).



DL GIM

textual richness is DCB weak spot), Support is provided for extensive worlds, over 500 objects and characters per world, virtual memory and VGA graphics (SVGA support will be available shortly). Also supported are Sound Blaster's voice, music and text-to-seech drivits.

DC has gathered a faithful band of users around its barner and it being continually refined to meet their needs. Future versions will support VSC despublics, Giff and LBM garphic filles, and data compression. If you graphs filles, and data compression, the results of the control of the cutient of the cutient Ultimarties, DC may take the ruture to take. PSC in a welder registration for 65 40, plus 55 shipping and handling, you can ship the mph school programming class and 'crute worlds' of your own. Registration theord be made to the cutient of the cutient of the cutient plane. TX '9508-6711.

While neither of these construction his will enable the fledgling designer to create an Ultima VII-or Lands of Lore-style game, they will provide the opportunity to learn the basics of successful design and create an original quest. If you want to get your feet wet, they provide safe wading pools. The best simulator ve ever seen!" ick Zalud, Comput

Makes the farm without

Dave Meskowitz, Video Games and Computer Emertainment

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enough, there is no music or sound effects. not even that of the letter blocks falling into place. Still, Boorle Delsoce is a good same, offering Boggle fans a capable computer trans-lation of this "wordy" favorite. Registrations should be directed to: Seaboard Software, 302 North Jefferson Street, Atlington, VA 22203-1200 in U.S. funds, check or money order only.

tion by		land of the land	l-la
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1	0.0		111
and the second			Trio

Trio, a one-player card game from Torensoft Consulting, challenges the gamer to match groups of three cards comprised of symbols (citcles, ovals and squares), colors (ted, blue and green) and shadings (solid, strined and hollow) out of a hand of 12 cards from a deck of 81 cards (a short game of 24 cards, and a half game of 48 cards are also available). However, locating trios is not always clear our. To form a trio, each artribute must be the same or different on each of the three cards. For example, one trio could be comprised of one each red, blue and ereen solid square. Thus, while shape and shading are the same, colors are different. Another trio might be made up of a red hollow oval, two green solid squares and three blue shaded circles. In this case, the shape, color and shading of each card is different. Scoring is based on the total number of correct trips located and the time it rakes to complete each game. On-line hints are available, though their use will hurt the player's score.

Though Trio is a simple game with a simple presention (it has no sound or fancy graphics), it is a fun and addicrive diversion. Those wanting to sharpen their logic skills should give it a try. For a modest \$10 U.S. (\$12 Canadian), the player gains the tegistered version and the next release. Trio Plaid. Registration should be senr to: Torensoft Consulting, 475 Elgin Street, Suite 1007, Ottawa, Ontario K2P 2F6, Canada.

The third game, Proxele Pits, is an Amiga game by Spartan Design. It could be described as a derivation of the old slidingsquare puzzle, where the baffled player had to arranged numbered riles in sequence-Though timed, the emphasis is clearly upon thinking one's way through each puzzle.

Prozele Pits is comprised of 30 levels (addirional levels are available) and is ser in the context of a quest to rescue the player's brothcts from the evil Dulak, a wizard who has turned them into stone. Apart from the contrived fiction. Prezale Pits is basically a series of logic puzzles in which the player must move barrels onto colored squates without blocking him or herself from future moves. Objects such as crates also need to be pushed out of the way, while gems possessing magical properties must be found.

In addition to the game itself, Puzzle Pits includes a level editor and a simple programmine language to design one's own levels. A tock Amiga with 512K is required, though MB of RAM is recommended to enjoy the game to its fullest (and hear the music and ounds provided). To register and receive the complete version with 30 levels, send \$10.00 in U.S. funds drawn on a U.S. book) to: Abe Pralle, P.O. Box 2059, Chinle, AZ 86503.

Once again, this concludes our look at shareware titles. Games reviewed in this column are available through numerous distributors of shareware and public domain software, as well as on many national and private on-line networks. If you do not have access to these networks, you can usually write or call the game developer for an evaluation copy. And remember, if you find a



Puzzle Pits

it with the author. Until next time, great gaming!

Send Us Your Best

If you have authored a shareware or public domain game for MS-DOS compatible, Macintosh or Amiga computers and would like to have it considered for review in this column, please send two complete copies (preferably on 3.5" disks) with documentation and a cover letter to

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On May 20, 1989 MiG-29 pilot Alexander The pilot who wrote Zuvev began a desperate

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and death struggle with the sentry. Zuvey managed to take off. Then, flying dangerously low to avoid radar, he eluded pursuing fighters and deadly Soviet and MiG-29: Deadly Adversary of Falcon 3.0." Spectrum HoloBytels add-on to Falcone 3.0, you can climb into the cockpit of the F-16's nemesis.

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KNOW WHAT HIT THEM Your MiG's IRST (Infrared Search and Track) system can track an F-16 without revealing your presence on his threat display. So you can get on bis six o'clock before he even knows you're there. Once in range, you'll be able to lock on to the Falcon just by turning to look at him with the MiG-29's helmet mounted sight. Then call "pusk" (launch) as you fire missiles or "ogon" (firing) as you ventilate him with your computer-accurate 30mm gun. Either way, his plane will make a satisfying crunch when it hits the ground.



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witch the nose flight, Non six, with

players over a network. It all begins when you add

on MiG-29 to Falcon 3.0. Anything more realistic wouldn't be a simulation



house wour weapon The Paleon is lethal at loss distances. The Fluterway, deadly close in. Nour mon our fly for all these ride



MiG-29 add-on requires Fakon* 30, Appliable on IBM compatibles.

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ELECTRONIC BATTLEFIELO SERIES The fight of your life.



Outlandish Tales and Fascinating Sights from Gen Con '93

To the tight of the main entrance sits a classic black bearse. Standing beside it is a caped Olf World noble, draped in black and adomed with both sidebarns wor of Elwis and a pallot that would be fit Bell Lugosi. He admires his oversized earning text in the reflection of the hearse's window and, literally, vamps for anyone passing by.

Ten feet away the huge TSR called that his set.

literally, samps for anyone passing by. Ten feet away the huge TSR cauche that has dominated the ethibit hall for two straight convention has spouted a minor outpost in front of its main entrance. There, CapCom has prototypes of their new Dangeous & Dangous coin-op game. The game Features tage figures at a Guidez Acto but ne enough tage figures at a Guidez Acto but ne enough tage figures at a Guidez Acto but ne enough can depend according to their DeD character class.



A squad of editorial yahoos (I to r, Mike Wekster, Alan Emnich, Johnny Wilson) holds down the CCW fort.

A Klingon guard exorts a prisoner past the front of the castle, lerding her human charge through the crowd toward the detention facility. Ever mercenary, the Klingon service personnel have managed to get gumers to spend money to have their findends 'arrested.'
Fortunately, all such funds will go to charity at the close of the convention.

Such, along with numerous rooms full of tournaments, open gaming sessions, used game auctions, seminars and film festivals, are the sights and sounds of the annual Gen Con Gaming Convention held in Milwaukec, WI. Thousands of sumer some from all over the

U.S. and Canada to check out the latest games and try their skills against other players.

Who's Who In Computer Entertainment?

The computer game industry is becoming more and more of a presence at gaming conventions. Even software publishers who meets also present the present and present and a present a

The SSI booth was packed with gamest who lined up around a bank of computers and arisky fullyord a pre-clusical version of the said safety fullyord a pre-clusic version of the region of the said safety fullyord and said safety fully safety fully said safety fully safety full safety ful

Asron Powell, leader of the Done Il design cam, was both selling the current his and talking about the new incarnation of the setem at the Westwood Studies booth. As reported in an earlier "Rumot Bag," the segance will get away from the Done license (mostly because the programmers are tired of and) and forton row terrain and cremies. It also looks like the design cam is serious observations, but devilla are vet to be determined.

The Ardon Hill Game Congruy was spering a band new image with regard to computer games. With Ardonic Games (developers of Three-Stay's Vife Viersy series) signed to develop Spade Leader for the computer and a new Hild viers of Third Rick Inspect of the Computer and a new Hild viers of Third Rick Inspect of the Computer and a new Hild viers of the Rick Inspect of the Computer of the Computer of the New Inspect of the New Inspect



Sega's Shadowun role-playing game for the Genesis more cyberounk and fantasy.

As the MPG-Net booth, gamers were discovering the Kingdom of Drakkor multiplayer RPG. In Drakkor, gamers traverse a beautifully rendered world and tun into real characters as well as computer controlled ones.

One of the great delights of Gen Con is running into some of the folks you've already met on-line as various characters in an on-line game. This year was no exception. Although we didn't manage to meet any of the characters in our guild, we did meet some from other group.

Other gamers were being introduced to the fastest way to play Empire Builder (on-line with MPG-Net) and the network's newest game, Operation Marker-Garden. In addition, the network is expected to unveil a new title at this year's Fall Comdex.



Kesmai uses Thrustmaster cockpits to take players for a spin in their SVGA Air Warner.

Sega and Data East had game consoles set up in the FASA booth, home of a large miniatute city that had suffered so much entropic decay that it was immediately recognizable as a setting for their Shadowson tole-playing game. Shadowwa is a mixture of cybernunk and fantasy that is tremendously successful amone the Dark Future ser, Both Data East and Sega have built products based on the Shadowrun universe. Data East's SNES eame allows gamers to play a street samurai and traverse the city in top-down mode as in any action game. Sega's Shadowran game for the Genesis has lots more role-playing elements and, in spite of the real-time combat, should have plenty of depth and appeal for traditional role-players. The skills definitely mean something in the Sega game and players can observe their character's improvement in each area. We were also impressed with the patron-based missions and some of the open-

ended opportunities for exploration. Speaking of role-playing, the Hero Software booth was located directly across the side from the Hero Games booth. Naturally, the software booth featured demonstrations of the new HeroMaker character generator for the Chempions role-playing system (see "Taking A Peck" in this issue).

The GEnie booth featured representatives from both Simutronics and Kesmai. Again. it was interesting to meet some of the real people behind the characters one battles, corates with, or woos in the on-line cyburbs of Genstone III, CyberStrike, Multi-Player Battle Tech, Federation Hand SVGA Air Warrior. New Games Manager Bruce Milligan an experienced designer for both Avalon Hill and MicroProse, told CGW that the network version of Hartson was rounding the last curve and heading for beta testing and that on-line MentTraveller shouldn't be too for behind. Meanwhile, he expressed his desire to develop a more significant on-line Diplomacy community on GEnic.

Meanwhile, Keamai was using Thrussmaster codepits to demonstrate the improved graphics for their SVCA Air Warrior game. Although they readily admitted that the modern codepits might be streething the envelope of suppended diabelief when games were Bying in Sylfites and Mussangs, they were justifiably peaud of some of the smoother curves and more authentic look of the planes. Virtual reality was present in three modes. Virtual World Entertainment had several Battle Tech oockputs set up in the computer gaming room for the enjoyment of would-be neech pilots. The set-up was essentially the same as in a Bartle Tech Center.

Dream Park had some new ideas for VR games with cruder graphics. In one, the player is trapped in a virtual spueship and must escape before the time runs out. There were also Dattyl Terror VR games in the computer

Finally, Simutronies was demonstrating the VR venion of CyberCorle in the CEnte booth. David Whatley had a proteopse of their VR goggles which are designed for home use. The beauty of this approach is that one can play against CyberCorle/pleyers on CEnte that do not have the goggles. So, Simutronies chosen the two topogram an entirely new game chosen the contract of the Corle of

Editorial Response

GGW², Johnny Wilson and Alan Emrich bosted the sensings on the future of computer games for the second year in a row at Cen. The das concected a bega debare to introduce trendy topics in the would of camputer games, triping of now the audience into the discussion. Some said the presentation excentibed Phil Doubalum meeting Rush Limbangh, but orders said that the two hour progress mosteded all the bases. This year, progress mosteded all the bases. This year, purposan controlled all the bases and the production of the progression controlled and the bases and the progression controlled the progression control

the trend of developing for the mass media would steal the software industry's soul. The bostom line, of course, is that everyone



CCW's editor is arrested by Klingons. The charges: assault with a deadly pun and failure to now town on his 25, and words

de seemed to have fun at Gen Con and that many of us left better informed (and with loss of new game goodies) and delightfully ired. Gaming conventions put the human face & ki into gaming, and we particularly lose meeting the follow who read our magazine. See ya' next year at Origins '94 in San Jose. cow

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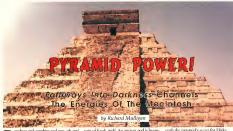
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s and zombies and goo, oh my! back, Dorothy. The Wicked Witch of the West looks like Chiquita Banana next to these guys. Even Margaret Hamilton would be toast for a headless creature that shoots deadly green goo from its neck, much less zombies that throw femurs like Nolan Ryan throws the fastball. And there's so many of them! If there's a motto to Bungie Software's

visually beautiful new game for the Macintosh, Pathways Into Durkness, it would have to be, "So many monstets, so little time Before you can solve puzzles or move on to another level, there always seems to be at least



one more creature to kill. And though the game features an incredibly fine graphic interface-more than faintly reminiscent of Id Software's Wolfenstein 3D-and a wry sense of humor, getting past the early dangers to the actual game play can be tedious.

The Game's Afnort

In the jungles of Yucatan, at the site of an ancient meteorite crash, sits a pyramid. It houses a dark secret, one that could mean the ruin of Earth itself: An ancient god is beginning to awaken, and it has an attitude. If not destroyed before it can come to full conscionsness, humankind is doomed to a life of slavery, if not worse

As a member of the American Special Forces team, your mission is to take a tactical nuclear device into the howels of the pyramid, set the timet, get out and then signal your pickup chopper with one of three radio beacons. Insertion day is Sunday; the team has until 1400 hours on Friday to detonate the nuke. After that, all is lost and you might as well sign up for your first class in Colloquial Zombie 101.

Unfortunately for you, the parachute drop is botched and you're separated from the rest of the team, landing hard in the bush. Your M-16 didn't land well, either, it looks like a steel noodle and you can't find the ammo for yout .45. The spate ammo, as well as the tac-nuke and radio beacons, are with the team. All you possess is a map, a flashlight, a survival knife and your wits. As you attive at the pyramid, you can tell that your fellow bereis have been there before you. Now, all you have to do is find them. The door is open...

If It Looks Like A Duck

Within the pyramid are creatures both fantastical and dangerous that must be overcome or avoided. There are also the remains of the poor souls who have gone before, most notably the mangled leftovers of some Nazi soldiers who tried to unearth the pyramid's secret for Hitlet Though the action supposedly takes place

in a pyramid in the Central American jungle, Pathwerr is a dungeon crawl, pure and simple. It exhibits all the standard features of that genre, but has a tendency to get bogged down with an array of monsters that must be fought or avoided-mostly fought. All the creature



are highly aggressive and never wait for the player to attack first. If the player manages to elude a monster in the tunnels, it hangs around and may atrack (read: "Probably will attack") later on. With only a survival knife for protection, things get hairy quickly. If one manages to successfully slice through the







waves of missile-throwing uglies on the first level, there is the body of a Nazi soldier to seatch, and what a bonanza he is; he's carrying a Walthet P4 automatic pistol and several magazines of ammunition. Now the player

can eliminate the Undead Threat in a more efficient fishion. Of course, one must become familiar with the weapon before one becomes teally good with it. You can waste a lot of bullets that way. and every bullet you can lay your hands on won't be enough, believe me.

All The Old, Familiar Places...

The bodies of previous explorers are part of the mystery, and there are a couple of puzzles that must be solved to win. The first usable object the savvy player will locate is a yellow crystal: this crystal allows the beater to actually converse with the spirits of the depatted, each of whom has at least one important piece of information to impart. One might look about for other useful crystals, as well,

The problem, of course, is that each level must be cleared of nasties to get to the bodies; even then, there's a tendency for them to climb out of the mortar work, literally. And, with boting regularity, each of the first few levels of the pyramid contains an ever-increasing number of beasts, until it's easy to become overwhelmed by sheer numbers, reeardless of the amount of ammunition available. Since there are at most two rooms on

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each level where saving the game is allowed (usually placed about as far from the entrance to that level as possible), the player spends a lot of time looking at the same old walls.

After a while, the tedium of constantly having saved games restored might make even the most hard-core (or -corps) gamer wish for a cheat sheet to the higher levels. With some 30 levels in the game, getting past the 6th of 7th level can be a trial, even though that's where the puzzles begin to take off and the game begins to be fun.

The MacInterface Is A MacJoy

The true strength of this game lies in the graphic interface. It's simple, elegant and easy to use. Designer/programmer lason lones obviously knows his way around Apple's Macintosh Developer's Toolkit, and graphics man Colin Brent has done an excellent job on the art and graphic routines. Particularly well done are the dead bodies and the creatures:



that there are so darn many of them. The sound is also excellent, allowing configuranon for either the one channel of the Mac's built-in speaker, or three channel steteo played through external speakers. As the sounds of approaching monsters give the player advance warning, the game should be played with at least one-channel sound.

The visual portion of the interface is a smooth-sctolling, 3-D point of view. Movement is accomplished either with the mouse or with the keypad, at the player's preference. Using the mouse to move is a bit tough to get used to; the keypod gives the player more control of facing. exact movements and combined movements, such as moving to the rear and tight simultaneously. This is important when it comes to combat, either handto-hand or with a firearm; a bullet or blade have to be very close to dead-on to get results.

Graphies resolution can be set at either high or low. The high tesolution graphics are gorgeous, but they do cause movement and combut to be slow and jerky. The low resolution graphics are equally as lovely as the high, and using low-res speeds up the game enormously.

All The Old, Familiar Faces

You'll want that speed when it comes to dodging creatures or objects thrown by them. There are specific commands to dodge left of right and, as the manual notes, practice early on with them can save a lot of restatts on the lower play levels. They are less useful in the higher levels of the pytamid, however. The manual and accompanying release notes emphasize the importance of dodging and the fact that dodging doesn't work in corridors. unfortunately, most of the higher levels are nothing but corridors or enclosed spaces that make dodging difficult. Creatures can and do approach from all sides. Amazingly, there is no way to look directly to the rear, at more difficult levels, this makes it easy to get ambushed from behind.

Round Up The Usual Suspects

In summary, Pathweys is a technically welltendeted product. It makes full use of the Macintosh and has a good sense of humor. However, it is somewhat weak on actual same play, especially in the lower levels, Players looking for depth and breadth early on could easily get frustrated with tound after round of monster-bashing to reach the puzzles and endeame. Those looking for a simple product emphasizing hand-eye coordination and a sense of humot will enjoy Pathwars, the initial promise of the interface kept this writer wishing for more game earlier on, however. To Bungie's credit, though, the game is honest and never pretends to be something it isn't. Overall, a job worthy of a strong recommendation, cow



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Missiles, Fire On The Up-Thrust!

A Captains' Guide To Space War In Rules of Engagement 2

by Hosea Battles

A sthe enemy's heavy cruiser closed on his ship, Captain Christoph de Cour ordered the helturman to execute a Head Long Pass maneuver.

"Set EBW to 100 percent. Set Auto EBW at range 300,000 kilometers. Execute!" The FW Dreadmought Lion Star targeted the enemy ensists and began moving toward it. Captain de Cour continued. "Hebn. Set position

at 39,000 kilometers, 180 degrees.
Within 300,000 kilometers both laips opened fire, leavaching mustles and EBWs. As the Lion Star wereal past, it inflicted beauge dumage upon the enemy uponest. Tastica tobuved enemy shields down 40 percent, weapons down 45 percent and drives down 60 percent.



"Damage Control!" bellowed Captain de Cour, "Report!"

"Lion Star shields down 25 percent, weapons down 45 percent. Computer down 22 percent,

As the Lion Star wheeled around behind the enemy, taction reported an enemy Dreakousqu's boading toward them bearing 225 degrees. Copyratin de Cour immediately ordered all other ships in the fleet to target the incoming Dreakhousqu's while continuing his parasit of the heavy cruiser, hoping they would protect his flanks.

This account is typical of the star battles fought in Rules of Engineering (ROE2). Capnin de Cour employed several different maneuvers that are essential for success in ship-to-ship combar. As you play ROE2, you will find a varied bas of excital tricks that can

be used to exploit the enemy. You may also discover that the enemy will use some of those same maneuvers and tactics against you. This article provides tactical hints that will

work against any enemy. You may find that some work will against one opponent, but not another. This is because each enemy has distinct personality ratis. Also, some teaties may not work well because you may have placed the wrong captain in charge of a ship. Captains, like opponents, have distinctive personality ratis and text differently in each strategion. Tables I and 2 give numerical assuments of both PV Captains, and exemy consideration. Tables I and 2 give numerical assuments of both PV Captains, and exemy for the proposed property of the propert

In general, you would do well to temember where you are at all times on the battlefield. Are you near an enemy outpost that can fire upon yout floa? Are crew members dying, but your ship has taken no his? (You may be in a radiation field.) Above all, temember that your best tactics are only as good as your cappains!

Basic Maneuvers

There are three maneuvers that have proven seasoful in most situations. Precisely how each ires depends upon which enemy you are frames and the number of ships in your facer. There are times, too, when all three are frames and the number of this in your facer. There are times, too, when all three are the configuration between the property of the pr

Head Long Pass: On the TACMAN panel, set direction to 180 degrees and set distance to 39,000 kilometers. Target a ship at a tange greater than 500,000 kilometers on the TACFIR panel and select the strongest General Darruge missile in your arsenal. Click on position and head toward the ship. Then, select the Communication Transmit Panel

and order ships under yout command to "Destroy Enemy Ship X." As you enter a range of 300,000, art EBW to Auto. I usually use the Pinpoint Weepons setting on the EBW and set it between 70-100 percent. As your closes; point, (usually between 10-20,000) fire as many missiles as you can. Your ship will then begin turning to place you at 180 degrees behind the enemy. Continue firing until you destroy the trapected vissel, or

you are forced to break off the attack. The Switch: Tarect one enemy ship in panel A and another in panel B on the TACFIR panel. Set your direction on the TACMAN panel to a desired heading and the distance at 30-50,000 kilometers. Do not place TACFIR on Auto. Click on Position and move toward the ship in the panel setting. For this example, we'll use A as the first tarrected ship. As you close to under 300,000 kilometers, set EBW to Auto and select the type of missile you want to employ. Once you are within 30-50,000 kilometers and have damaged ship A, immediately select panel B on the TACFIR panel and click Position on the TACMAN panel to move toward ship B. Turn off Auto EBW until you close to under 300,000 kilometers. After damaging ship B. select ship A. Continue switching until you disable or destroy one of the enemy ships, or until you have to break off the attack due to sustaining heavy damage.



Side Swing: Target an enemy ship on the TACFIR panel. Then, on the TACMAN panel set distance to 40,000 and helm to 90 or 270 degrees. For this example, we first use 90 degrees. Select a target on the TACFIR panel. Choose Pinpoint EBW, targeting

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Table 1 - FW Captain Personality Assessments

Name	Aggresion*	Bravery*	Diplomacy	Experience*	Humility	Ingenuity*	Leadership*	Lovelty	Stamina*	Temperament*
Ahr Anhdi	- 68	28	79	.88	42	83	47	93./	42	7 00
Akin Mustafa	70	74	85	75	61	62	77	86	60	60
Ambrus Gsaszar	44	60	87	39	13	53	29	33	62	84
Anna Quintana	67	80	22	27	76	23	34	99	68	81
Arnell Alejandro	76	89	67	43	48	48	39	81	74	77
Chanhn Minh	82	87	91	78	49	97	99	93	82	11
Christophe De Cou		80	29	55	82	45	69	23	24	83
Cynthia Gibbs	44	36	48	52	59	42	52	56	05	35
Deneal Mabusso	58	74	34	69	27	99	5%	68	82	36
Dren Anderson	70	84	34	81	50	66	72	86	54	53
Francis Globel	73	62	61	66	65	70	86	65	60	64
Ignacio Moreno	75	93	27	09	73	20	18	98	35	38
James Chappie	80	86	78	75	67	80	90	96	93	75
Jaques Quinte	44	53	37	07	20	83	50	69	91	57
Manoino Foote	99	99	69	84	16	99	89	97	43	73
Mikhail Aidian	69	75	68	59	65	62	75	80	64	64
Mishai Singh	42	98	85	99	66	67	76	99	50	33
Natasha Genov	92	76	37	75	55	70	92	80	70	84
Nies Garrovick	49	58	88	98	76	78	82	86	10	22
Opheira Bresheliah	99	28	74	58	20	32	88	16	40	46
Ronata Kwola	18	95	20	62	72	64	35	67	72	26
Sharae Qlana	72	76	67	62	70	80	85	82	70	75
Srini Patel	87	57	28	28	33	46	78	46	50	75
Такако Кигозаwa	60	68	38	44	80	64	26	68	73	34
Tellero Lawson	26	67	92	68	52	58	70	86	40	38
Thomas Cichowicz	99	44	12	00	10	44	32	84	94	44
Trevor Ender	88	88	36	46	50	91	90	74	34	79
Wilkam Baines	68	88	44	52	58	92	76	34	44	68
Worl Chareten	80	77	82	85	72	90	90	91	85	74

Notes: " - Crucial traits for combat. Average rating = 50. HUMLITY. Affects Surrender Factor: The Lower the number, the higher the chance the Copton will surender to the ensure, LOYALIY: Affects the likelihood of fallowing arders, the higher the number, the more opt the Copton is to carry out priders. DPLOMACY: Affects have the Copton inferests with negligible allowing the delemnings if the negligible and will allow the

weapons or drives, and select missile #6 (targets drive system). Set Auto EBW when you are under 100,000 kilometers and fire missiles at your closest point to the enemy. As you swing to the 90 degree setting, continue firing. After about one minute (game time) of firing on the enemy, set heading to 270 to swing around to the other side of the ship. Continue firing until you disable the targeted vessel or until you are forced to break off the arrack.

General Tactics

Deciding which tactics to employ during a battle is one of the most important concerns in ROE2. As such, the first action of a good commander is to know the mission objectives. Read the mission briefing prior to each mission, and look for clues as to the size of your force and that of the enemy. Know the capabilities of your captains and make assignments according to your knowledge of the forthcoming mission. Also, give yourself several options in the first communications to your fleet. Finally, don't be a stationary tar-



ger. You should begin moving as soon as your fleet is deployed.

These defenses target incoming missiles. If it seems as if your missiles are not hitting their target, then the ship's pinpoint defenses (EBW and/or Jamming) are knocking them down. Knocking out a ship's weapons system will destroy the pinpoint defenses.

Ship-to-Ship Combat Tactics This first discussion focuses strictly on ship-

to-ship combat. We will discuss ship vs. outpost tactics later.

Concentration of Firepower: Overall, this is the best tactic you can use. Even three small Scouts can overwhelm the best defenses of a Dreadnought if they all concentrate their firepower on the ship, especially if using Pinpoint. By ordering all your ships to target one enemy ship, this will ensure that the missile pinpoint defenses are overwhelmed, allowing many missiles to do internal damage. Give all your ships the "Destroy Enemy Ship X" com-

Pinpoint: This is lethal when used with Each ship in ROE2 has pinpoint defenses. Concentration of Firepower above. By pinpointing a system with your EBW, you ensure that all EBW fire is concentrated on a single area of the enemy ship. When this is used with the next tactic, you will make short

work of an opponent's vessel. Concentrate Fire On System: By giving this order to all your ships, you guarantee that they will concentrate fire on a particular system. I have found that concentrating fite on weapons first, then targeting drives works

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best. The most powerful Dreadnought is nothing without weapons, and is definitely a sitting duck with its drives gone.

Disabling: When outnumbered or outgunned, your best tactic is to disable one enemy ship at a time. Disable the first vessel, leave it,

- EBW methods are effective for this tactic: I. Pinpoint Weapons
 - 2. Pinpoint Drives

3. Pinpoint Weapons, then Drives, Hide and Seek: You can only employ this tactic if you command a Scout ship with Stealth Capability, Since a Scout only has EBWs as weapons, choose your ships carefully (some only have low powered EBWs). By using Stealth mode, a Scout can sneak up on and cripple a Dreadnought. When first deployed, immediately turn on Stealth from the NAVHLM panel, then go to NAVDEF

and turn on shields and iamming. In TACFIR, choose an enemy ship as your carnet and use TACMAN to set a range between 20-30,000 kilometers, Click on Position or Shadow to go after the target ship. When you are at the desired range, select Auto FBW and turn off Stealth long enough to fite one shot, then immediately turn it back on again, If lucky, you will get a hit. When EBWs are fully charged, repeat the same tactic, continuing until you start taking hits. (Stealth is not perfect, so there is a chance you will be dis-

covered. Certain emissions leak out allowing an enemy ship to discover a Scout.) If you are taking damage and hits, immediately click on Evade in TACMAN to escape. Scouts are the fastest ships in the game! and go after the next. The following pinpoint

Suicide: This is a dangerous technique, but it may work as a last resort. The problem is that you may cripple or destroy your own ship in the process, and may even destroy other ships in your fleet. To employ this tactic, your ships must have mines. When several enemy ships are closing on you, under 500,000 kilometers, go to TACDEF and select Shield Reinforcement, Set Mines to 500,000 kilometers and drop one or two. If you survive. you will find you have crippled one or more enemy shins. You may have even destroyed one or two! However, you may find you have effectively crippled your own ship, Hopefully yout communications will be intact and you can order other ships in the fleet to finish off the cripples or come to your aid. If not, you may find some enemy ships targeting you and coming in for the kill. It's not called "Suicide" for nothing!

Always keep track of the condition of ships in your fleet. Ensure that you have requested



all ships to send updates every minute, and periodically bring up the DATAFLT panel. If a ship is close to being destroyed, order its evacuation. It is better to lose the ship, than to lose the captain. During any campaign, if a ship or captain is lost, they are lost for the duration of the campaign.

Evacuation, however, takes time. If, in your estimation, there is insufficient time to evacuare, order self-destruct, Self-destruction overloads the drives and will destroy or damage ships in the explosion radius. The drawback to this tactic is that you will lose the ship and

			-1.	_						_
Mame Aggresion*	Bravery*	Diplomacy	Experience*	Humitty	Ingenusty*	Leadership*		Stamina*	Temperament	
Anteator	84	20	16	28	06	28	12	08	22	84
Antities	84	84	00	52	50	16	16	99	70	50
Basaree	76	04	74	20	48	022	52	99	08	20
Belowee	44	80	60	52	44	56	90	72	90	56
Cybers	99	99	60.	88	99	99	72	99	99	32
Entymions	64	52	70	10	46	92	34	20	84	58
Feenzrook	50	52	80	28	68	86	38	60	22.	38
EWBP	34	26	84	16	70	30	66	84	28	48
FWSF Manne	80	20	52	80	44	70	70	80	70	60
Gornidians	88	82	66	76	50	72	80	92	90	74
H's Big	88:	90	60	85	55	81	85	80	75	72
Intoid	80	84	52	80	50	60	68	86	80	65
Kariothed	86	74	14	76	42	74	92	78	28	68
Martian	82	64	20	58	99	75	64	99	37	70
Mutal Laicr Mok B	28	42	74	24	96	16	36	24	37	25
Mutai Laicr Mok G	66	70	32	41	64	42	54	72	82	90
Nomad	68	50	31	78.	38	78	50	99	22	42
Oreeginard	28	24	82	68	34	90	22	16	64	46
Pervect	72	64	72	62	16	82	66	80	66	91
Trizan Alpha	94	91	66	75	55	76	75	93	86	68
Trizan Beta	84	89	75	85	80	90	92	95	70	55
UDP Military	80	68	28	74	38	66	84	64	68	14

Notes, " = Crucial Iralls for combat. Average rating = 50: HUMLITY: Affects Surrender Factor. The Lower the number, the higher the changes the Capital will surender to the enemy. LOYALTY: Affects the likelihood of following orders. The higher the number, the more got the Capital is to carrive out orders. DPL OMACY: Affects have the Capital interacts with neutral outboots. The detarminal first qualital pulsar the Computer Gonine World

GREED IS GOOD.

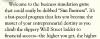


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the stakes.

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Interplay Productions, Inc. 17922 Furth Avenue Irvine, CA 92714 (714) 553-6678 captain, and you may damage or destroy friendly vessels in the area.

Finally, never forget to pick up escape pods after ordering a ship to evacuate. Otherwise, you will lose the captain for sure.

Rabbits In Space!

A hidd. Tatur: og' can be fomd melle PAVR-Shippade Can. Penning hit POVR-Shippade Can. Pennin

- Stanley Trevena

Table 3 - Catalog of UDP Missiles: General Type

Number	Name	Damage	Range	Description	Damage
1	Type 1	52	980	General Demage	Light/
2	Type 2	N/A	1,920	Anti Personnel	Light
3	Type 3.	N/A	2,530	Damages Shields	Medium
4	Type 4	84	2,950	General Damage	Medium
5	Туро Б	NA	1,060	And Personnel	Medium.
6	Type 6	74	830	Weapon System	Medium
7	Type 7	84	1,520	Drive System	Hoavy
8	Type 8	142	740	General Damage	Medium
9	Type 9	181	565	General Damage	Heavy

Ship vs. Outpost Tactics

There are three types of outposts in ROE2: FW, Enemy(UDP and Neutral. They care in four varieties Commercial (full shields and limited armaments). Serdement (limited shields and our armaments), Serdement (limited shields and summents), and shields and Milliary (full shields and full armaments), All outposts with armaments here unlimited missile supplies. Thus, a single ship, even a Dreadnought, will be hard pressed to destroy a Milliary Youll shield.

There are two ways to take an outpost: destroy it or capture it. Unfortunately, the only system that can be pinpointed on an outpost is shields. This is because outposts are located on larse asteroids. planetoids, artifi-

cial satellites, or on a planet's surface. Their weapon systems are shielded and too numerous to pinpoint. However, outposts can be destroyed after taking a heavy pounding from your EBW and missiles, following the methods below.

Capture: The best way to capture an outport is to order all ships in your command to puricipate in the capture operation. All ships will concentrate their full firepower on the outpost. You can then issue the order to concentrate all fire on the shields. Then, pinpoint the shields with your EBW. See it to and #9). Once the shields are down, immodiately close to boarding range and board the outpost. Be sure that no enemy ships are near

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At the root ast of many mission design water compaigns in much the some manner as Om-nitrend. The left includes the "Athena Doouall technical information on sound effects allowing the designer to replace the voice of A.N.D.I. with custom voice files; generic ship views in GIF formar for inclusion in custom along with a GJF to ROE2 file converters disclid" alien forms reserved for future use: misships and their statistics. In addition, modifialso be included. Tom Carbone has stated that he will do a second production run of this kix if there is interest from CGW readers. This is phone number is (203) 678-7679. The cost of when you attempt to board, as you have no control over ship combat during boarding. Otherwise, your ship will continue to take damage either from the outpost or from any enemy ships within range. Once captured the outpost's guns will cease to fire. You will then be able to resupply and repair your ship, provided the outpost is sophisticated enough and has supplies.

Destroy: If your objective is to destroy an outpost, you should order all ships to do so. However, your ship should never get closer than 30,000 kilometers to a military outnost or you may find yourself disabled and a sitting duck! Military outposts have plenty of armaments and can heavily damage your ship in a short period of time. When attempting to destroy an outpost, hold nothing back; fire all missiles and use Auto EBW on Normal Beam. Continue pounding in this fashion and you are guaranteed to destroy it (though, you will probably take heavy damage). Note that anti-personnel missiles do not affect out-

noses. The best way to destroy an outpost is to capture it first. Use the Capture tactic described above. Once you have taken the outnost, take advantage of the resupply and repur facilities. When finished, pinpoint the shields and destroy it at your leisure. The outpost will not fire on you as it is now under



Hosea's Last Stand

These are just a few tactics and maneuvers that I have found to work about 90 percent of the time. You will discover others as you play the game. Good luck, and keep the following close to your heart:

 No enemy will react the same way twice. even when replaying the same mission.

2. Always be aware of the battlefield state. as situation awareness is critical to winning any battle. Many conflicts have been lost because a commander was not aware of what was happening on the field of battle.

3. Know the location of enemy outposts that can take pot-shots at your ships. 4. Always keep track of the condition of your fleet using DATAFLT.

5. Above all, "Know Thine Enemy!" one

- Stanley Trevena

EVERY MOOD!

your control.



don's on Monday and Arixon's America's Manna Kea don'th that night and Arixon. (Dato's Persone coarse on leaster noneing, save your arriare and just pull out your NMS Champeoingh Ourses's ACCESS Software has capifully digitated versions of some of the world's finest aff courses to you can play them on your computer, ytims of the day or night! If you feel like playing 18 holes on Hawaii's Mauna Kea











A 3.1-Run Homer

Miller Associates' Baseball for Windows

by Wallace Poulter

h Windows. That curious little graphic interface from Microsoft that attempts to do what the Mac has been loing successfully for years. Like a lot of Microsoft products (DOS comes to mind), Window is cumbersome and ugly, yet has sold a bazillion copies. I suppose it proves that Barnum was wrong: You can fool most of the people all of the time, including our intepid reporter. The potential game market for Winnow-based products has been overstated by many, yet a number of brave souls have ventured into the breach. Chief amongst these is APBA Presents: Baseball for Windows from Miller Associates

Step Into The Box

First impressions from the box reveal more meat than marketing. While the front panel is an uninspiring crowd shot, the back of the box is one of the more complete and informarive pieces of copy in the industry. There are six full-screen images with relevant informorion. How many times have we seen useless and inaccurate screen shots on the back



of a box? Here we get good tep tesentations of the ballpurks, and screen shots showing league set ups and reports. Combine these with detailed descriptions of the screens and 24 bullet points of useful information, and you have a box back that should be studied by the industry. Before I opened the product I knew exactly what I was getting

After such a well-designed package, I was rather disappointed to find an 80-page manual with all of two illustrations. This Baseladl for Windows Tutorial is well written and pretry comprehensive, but there is no substitute for showing the uset what to expect. Fortunately, there is a full-featured help pro-

gram within the game that answers any questions that atise. An extra couple of sheets have also been added which cover "Most commonly asked questions.

Installation of the game is smooth and easy. Once installed, a Miller Associates icon apsears in the Program Manager window. Clicking on this icon will display four additional icons. These are Baseball, Advanced Draft, League Manager and Stat Master.

One of the highlights of Baseball for Windowr is the main ballpark screens. In both 16 and 256 colors, the ballparks are created from paintings or photographs and are just gotgeous. Fotbes Field in Pittsburgh is especially nice at night.

I was pleasantly surprised to see my all-time favorite team, the Pirates of '27, included as one of the all-time Great Teams. With the '27 Yankees considered the greatest of all time, usually the '27 Pirates are overlooked by companies, or individuals, compiling their alltime lists. I soon had the mighty 27 Pirates taking on the '82 Angels. The '27 Pirates have such all-time greats as Lloyd Waner, Paul Wanet and Pie Traynor, with Kiki Cuylet on the bench. Against them the '82 Angels lineup of Jackson, DeCinces, Carew and company doesn't look all that hot. This should be an easy victory for the Pirates, I thought, prior to play. Pitates pitcher Lee Meadows cattled a no-hitter into the 5th when suddenly the mof caved in. Bobby Grich homets with Fted Lynn on base and the Angels don't look back. Grich adds a second Homer, and Lynn conttibutes himself as the '82 Angels win comfortably 6-0 on Geoff Zahn's 7-hit shut out.

You Make The Call The Baseball Module allows the user to

make all the game related decisions that a managet would. Each team in Baseball for Windows has a primary lineup that is preprogrammed, but new lineups can also be saved. The tunning commentary is one of the best around and does a great job capturing the atmosohere of the game. DeCinces bobbles a ball for an error, followed later the

same inning by Boone racing back to the screen, getting a glove on a foul ball, but dtopping it for a tuled error. That's a pretty tough scorekeeper. Carew goes into the seats to make a play, Jackson is called out looking at a strike three ball. Burnhart gets picked of at first with two ours and runners on second and third.

An easy-to-use interface makes all this possible and is one of the game's best selling points. The decision panel allows five offensive and five defensive choices, each illustrated with its own distinctive icon. The five defensive decisions are Pitch, Walk (intentional), Hold, Pitch from Stretch/Windup



and Infield In/Deep. Good basic choices, but it would be nice to have some more detailed choices such as guarding the lines or bringing the corners in. This, combined with a lack of ballpark effects, is the biggest negative to the product. Batting in Oakland with its huge foul territory should be very different from Tiger stadium, for example

Making managerial decisions is smooth and easy. Clicking on the bullpen will not only show the user who is there, but also the next four batters in your opponent's lineup. The introduction of righty/lefty effects as in Strat-

o-Matic would make this even more televant. APBA Presents: Baseball for Windows



APRA Porsents Resolval! for Windows REQUIREMENTS PROTECTION 11 Barris Aurraio Suno 200 New Consan, CT 06/60

"The interface may be revolutionary [and] allows a richness that has been absent heretafare in graphic adventures."

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but this is a philosophical decision that ABIA section control to say sway from Rasheld for Windowniass a Dynamic Decision" concept to spice up play, that is, the user will sometime be given options such as sending the runner, cutting off the throw, or trying for an extra base. Depending on the level of play selected, the user gets as st amount of time to make the decision. I tend to be a little too severals was also make the decision. I tend to be a little too severals was not move was not forth in innines.

A High Draft Pick

The Advanced Draft module is a pretty impressive piece of software. The smooth integration of the programs via the icons allows easy transfer to this and other modules. Most impressive is the ability to sort all the players by either their fielding position, APBA eating or name. Two new terms to me were Pankin and Markow: The Advanced

Draft module contains a Pankin Optimizer, which caktulates the most efficient fineau, to would have been nice to get a full description in the manual of who or what Pankin is. Similarly, the Markov calculation deals with average run estimates and the lineup, but details are lacking.

The Statmaster module borders on overkill With over 2000 different statistical categories for players and teams, the scope is amazing. Added to that, a custom option allows the user to create a list of either best or worst performers in these categories, Finally, the League Manager controls all league functions for the team and season. Obviously this allows the creation of fantasy leagues and multiple series schedules. Within the League Manager is the Advanced Injuty Management system. Player's roles are based upon their actual usage during the course of the season being recreated. For pitchers, roles affect Readiness Ratines, as well as Fatistic Status related to Readiness Ratings. For nontchers, roles affect the computation of Play Rating. This has caused some problems in replays. It appears that the routines are based on the number of games the player participated in and not the number of at bats. Therefore a pinch hit appearance is treated the same way as an extra inning game in determining whether a player is ready or not.

This is something that Miller Associates will

need to address in future versions.

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lent palpitations. It was my first day as a New York cab driver, and I was to be picking up my first fare at Kennedy Airport. It was wonderful! I was playing the horn like it was a table, my regular percussion heat so much more pleasing to the ear than the dissonant bleats and honks of my brother hackers. I cut off two other cabs and squeezed between two airport buses in order to change lanes. I was feeling like King of the Cabbies, I am telling you

That is what I was feeling when I picked up this very strange man who played computer games for a living. I asked him if there were games where one could be playing the driver of a New York cab and book more fares than the other cabbies. He said, "No! You don't even do that in Hellorb." He did tell me that he had hoped for a game based on Kingmaker, some Avalon Hill boardeame where supposedly grown men gather around a map of England and presend to be nobles during the War of the Roses. I asked him if I could play it on my new computer and he said, "No! The European designers of the boardgame sold the software rights to U.S. Gold, So. Avalon Hill isn't going to do a U.S. version of Computer Kinguaker until those European software rights expire.

My fare seemed most personally disag pointed, so I tried to take his mind off it by risking our lives more than four times before we got to the Oueensborough Bridge. There, the traffic was slower than a mystic can attain oneness with the divine. Some guy in a cab next to us motioned for my fare to roll down his window and, since I did not have time to warn him, he did. With blessings all around, the other passenger told my fare that the stop and go traffic across the river reminded him of MicroProse's upcoming cartridge game, Across The Rhine.

for dedicated game systems with the depth of Sega Japan's advanced strategy game. The latter, in spite of its ractical excellence, was never released in the U.S. because one gamer essentially played Hitler, Anyway, the sentleman in the other cab was telling us that it had inspired the MicroProse game in terms of interface and playability, and that Arnold Hendricks was

designing the product.

I asked my fare to roll up his window because there are so many strange people in New York. I also pointed out that there was soine to be a full moon that night and hoped that he would be most cateful. "Under A Killing Moon, ch?" he responded. Then, he filled me in on the most fascinating news that Margor Kidder of Superman fame (Oh, to be hoping I pick ber up in my cab some dayl) and Brian Keith of Disney movie and television fame were going to appear in Access' latest Tex Murphy game. I asked what game that would be and he said that strange phrase about Under A Killing Moon, again,

I reminded him to be rolling up his window and most fortuitously, he did. Although I overheard him saying something about the fact that everyone is wanting "to do Windows these days." He asked me if I had heard of Twin Dolphin Games, I hadn't. He said that when their Formiten Castle 3-D first-person perspective game came out that everyone would know their name, but he thought they might even make more money with their Windows games,

I cut through a blinding maze of side-streets and he said it reminded him of one of those Windows games he was speaking of, Nano-Tank. This game has a hundred different mazes and is supposed to be something like The Incredible Machine on a circuit board. The I had that option. cow

gamer has to figure out how to put the circuit back together with a little on-screen tank. We had a near miss as we headed for 57th

Street and he said, "I wasn't planning to tell you about Winball, Twin Dolphins pinball game, but as long as we're driving bumper to umper. I might as well let you know that they have a cute one coming out with six different pinball games."

When we ended up stalled in traffic due to sewer repairs on 57th Street, I told my fare that I was more concerned about certing my bands on that Smokin' Guns shooting gallery game. It features six different theme settings and I was booing that one of them was New York traffic. My fare didn't think it was available. but I told him to tell the developers.

Then I carned my strines as a New York cabby by making an obscene gesture and calling a toutist the effluent by-product of a gout. I told my fare that I wished these cabs came equipped with anti-automobile weapons. He laughed and said that I would be better off seeking my fortune with a computer game where I could be my own boss and acrually blow away the competition. "You are speaking of a Godfather game?" I suggested

Actually, he explained that he was speaking of Project Nomad, a publishing partnership between Papyrus Design Group and Gametek. The same is sort of a Starflight meets Stage Roose where would-be interstellar traders build up funds by trading, improve their diplomatic skills by interacting with some fascinating aliens, and literally blowing away the competition in a simulation with 3-D poly-

gon-filled graphics As I sat there in the traffic, in the stifling humidity of an East Coast hear wave. I wished



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Are These Guys Worthy?

Our Reviewer Hangs Out With Capstone's Wayne's World

bu Gordon Goble

This reviewer has renounced the teachings of the Esteemed On...e., Ways...and is now following a path that travels the trasiple and narrow. The following critical suscenses to Gestones: Ways.'s World well make no use of Illinois teenage slang, nonsensical expressions, nor any colloquialisms based on a "well music doctrine."

new Bull voil mines aucrimi:

In 1992, the cinematic release of Weyne's
World capitalized on the populatiny of a Satandry Night Lete Succh of the Same nameages, brains addled by a touch too much
parrying' and numbed with copious, carsplicing doses of the popular music of their
presentanes, are out to regain creative control
of their television program from commercial
interests.

In 1993, the computerized release of Wayne's World attempts to capitalize on the notorizety of said morie, and no one really knows where this sort of reversed domino effect will stop. That this pair of slothful ne'er-do-wells could ever achieve such godlike status signals that something has gone horribly wrong with our society. That said,

on with the review.

Having salvaged their television program



during the course of the Wayne's World movie, it is now the very existence of Community Access Television (in Aurota, Illinois, anyway) that ress upon the shoulders Wayne and Gartin in the Capstone's Wayne's World Speaking of Iboulders, did you notice the Actual region on Madamun during her latest video's Bis is truly an apsisomiation of Ibabreus. Hey's Someone cut that last remark—that is the deld me...perhaps my therapy has not been 100% ascersful.

In an effort to reduce spending, the mayor of Aurora has announced that unless \$50,000

can be taised within the next 72 hours. CA.T. is finished, and Wayne's World along with it. To make matters wose (or better, depending upon one's viewpoint), there also seems to be some form of evil influence furtaeming to crosso or cancel the broadcast of Wayne's World. With cancellation and horizon, Wayne and Garb. (MWIII. ING., ignore that) and over their appropriare course of action.

The midirected minds of this dynamic dose ventually hatch a plan to stage an offishoot of a teckhon, a Pizzathon, wherein viewers polegic their mose; or the cause and receive a polegic their mose; or the cause and receive a Wayne and Garth fishion, this is a gent idea theory, but sands very finite chance of parcical application. Neither Wayne or part have \$50,000 worth of pizz ingrediction of the cause of the control of the care the control of the control of tainment, volunteers, an advertising bodger, or the necessary video conjunction to stage such a monumental event. However, if they such a monumental event. However, if they such a monumental event. However, if they cause a dever, the rost to as very Community such as monumental event. However, if they such as the such that they such as a such as a such as a such such as a such as a such as a such such as a such as a such as a such such as a such such as a such

Acress Television and Wayne's World is on. The Wayne's World interface features the typical adventure game side-view of the immediate suttoundings (usually a single toom although sometimes a tight outdoor shot), and both Wavne and Garth move about as they obey their various commands, inspecting objects, picking objects up, giving objects to others, pulling and pushing things, and verbally interacting with themselves (Party on, Garth...Party on Wayne!) and others. A row of icons resides at the bottom of the screen, graphically displaying these commands, and across the top of the seteen apnear visual representations of objects currently in possession. Pointing and clicking is the method of choice in

Wayne's World and the keyboard rately enters into play.

The "world" of Wayne's World is confined to Aurota, IL, and transportation from one location to another is accomplished through Wayne's vehicle, henceforth known as the infamous

head-hanging Mirthmobile. A full-screen city map appears when a specific area has been exited, allowing access to new locations. A musical score is present throughout, and it is delightful indeed....MOTP Perhaps a little digital sampling of Aerosmith or Alice Cooper would have been more suited, considering the tuneful tastes of these two.

Some specific chores that must be completed in order for Wayne and Gatth to hold their Pizzathon include: securing Cassandta



(Wignet) bade-additions griffstend) a release from her contract with the snorty Eugene of Eugene's Video Emporium so the may entertain the viewers talking or bribing resturnteur Pepe Roni into lending the use of his pixes making equipments acquiring a largechunk of TV time, ere. These are not life or each situation, Weyne's Worlds not a battle death situation. Weyne's Worlds not a battle death situation when the world will be also light-hearted conversations of the program make it, Me. ard fim.

Conversation is a valued art in Wopne's World (though language is given a real beating), and a multitude of problems can be solved by speaking to the right person at the right moment, including dialogue between Wayne and Gatth themselves. At other times, though, Garth may say to Wayne, "How many marshmallows can you stuff up your noce", or "Boot" you think

eventually we should change clothes?", or "I dreamed about

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Madonna last night," to which Wayne responds, "You dream about Madonna every night," Like the Warne's World sketch, the game never takes itself too seriously, and fans will find that the same level of humor per-

The game is not overly difficult. Uncharacteristic of this genre, issuing the wrong command will never result in disaster-one is simply not allowed to do it. The smacking sound of one's head against computer table will rarely be heard with Warne's World, as nothing will be completely unraveled by a wrong move. Combine this with a limited amount of destinations and witty bantering. and Wayne's World becomes an obvious

choice for the neophyte adventure games. This is not to say however, that it's all, like. a piece of cake. More often than once, an apparently insignificant item barely discernible on the screen will be important to have. To make matters worse, combinations of nondescript items may be used in hatmony in particular locations to provide incredibly profitable results. Also, the timing of arrival at a given destination may be paramount: exploring the local public television station at one moment will provide little but locked doors, yet later may result in a guest shot on a game show. In this way, the game has many of the typical adventure game frustrations. On the other hand, it has many unexpected



perks* embedded throughout, like Garth's shocking "tongue trick" (sorry, no further explanation on this one!) and the appearance of the one and only "Gilligan" (that's right, the mate who was a mighty sailing man).

Game instruction is, to say the least, minimal, and one will discover the ins and ours of Wayne's World only through extensive experimentation. In these days of War and Pescssized game manuals, it is refreshing indeed to see one that isn't. Yet. Capstone may have taken things a little too far with the Wayne's World manual, a lean offering that won't take more than five minutes to browse from beginning to end. Although this really bestows upon one a pioneering spirit, a pinch more detail and guidance would have been a wel-

come addition Movement though Wayne's Autora-based world is expeditious thanks to the avey cost interfaces and solid programming. My copy only once required the three-finger salute (CTRL-ALT-DEL), and getting both in and out of the program takes a matter of seconds, especially since Wayne's World sports no copy protection. Saving a game takes all of a millisecond, although some annoying delays will occur during conversations. Perhaps 100 much time has been allotted for the Wayne's Worldgame player to real aloud each word on the screen. Perhaps Capstone believes that prospective users will more often than not be Garth clones. Perhaps Capstone believes we're all not worthy! Are they mental? Are we mental? Do monkeys fly out my butt on a nightly

That's it...I've lost it!!! Wayne's World is the reatest thing since MADONNA DROPPED HER TOP...not!!! wes it is!!! no it isn't!!! autourbi!! SHWIIING!! SHWIIING!!! SHWI-

So much for therapy.

Wayne's World'is, like, fion, man, It's here for a good time, not a long time, so experienced adventuring dudes and babes may want to look for something a little more enduring. Newcomers attracted to the game for its subject matter will find good humor, unexpected twists, and an odd setting, separating it from other efforts in this genre in these respects. while being rather typical in all others. cow

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Probe On The Run



Iron Helix Makes A Mad Dash For The CD State-Of-The-Art

by Maxwell Eden

Ithough Spectrum HoloByte's first CD-ROM release, Iron Helix, is the A product of creative presentation more than originality, it is not another case of substance sactificed for style. Drew Productions has pulled off a fine CD (coup d'état) by making the most of the CD-ROM's limitations and putting dramatic shortcomines to work for them, proving once again that good

Inside Intricate

design still means less is more.

Sure, the science fiction story is secondary to the areade action of the game, but it's worth a brief look behind the scenes at how the talented design team approached this project. First, start by botrowing from some wellwom movie scripts. Rework these successful formulas and contrive a tension-driven game where the absence of characters becomes part of the story. Since the crew is dead, there's no



need for annoving load times and delays associated with complicated, character intensive games. To offset the lack of characterization, video logs of crew members provide a semblance of personal interaction

Next, develop motion-picture quality graphics and animations to create a superb cinematic gameplay environment, reminiscent of such films as Star Wars and Alien where hardware and spaceships showed signs of "re-alistic" wear and tear. Then, lay out an unpretentious, vet believable, control interface that responds incredibly fast considering the existine limitations of CD-ROM technology.

And that's all there is to it.

If death doesn't come

The Scenario

Late in the 24th Century, a cold-war exists between Earth and an alien race called the Thanatosians, So, what else is new?

The game is Iran and mean with no meandering subplots to set in the way of a 90-minute dash to avert an intergalactic war. Because there is no "click-and-wait." load times or other on-screen interrupts, the CD playback medium is all but transparent, creating the

illusion of gameplay in real time. Evoking anticipation and anxiety. Iron Helix immediately propels players into a nervewracking drama. The addictive pace begins with the runaway, tenegade SS Jeremiah Obrian, an enormous starship destroyer carrying a secret doomsday weapon-code name: Iron Helix. The weapon is a virus that mutates the DNA of an organism and attacks the

immune system, killing its host in the process. During a wargame simulation, the Obrian's computer goes bersetk and takes control of the dreadnought. The ship's computer isn't fooling around: it has targeted a peaceful Earthlike Thanatosian planet where it will drop its horrible payload, annihilating the inhabitants and igniting a galactic war.

Fortunately, for the purposes of entertainment, Murphy's Law still haunts the universe centuries from now. Not only has the computer failed to recognize the difference between a simulation and a real attack, but the dreadful virus has somehow escaped. The crew has become infected and their DNA has begun mutarine

Since the virus alters the unique DNA sienature of an individual, the computer refused to acknowledge the crew's altered DNA-based recopnition system. As a

result, all hands, including the Captain, were unable to access the computet and override the attack plan.

from the virus first, the

hip's computer has deployed a well-armed Defender Robot sentry to eradicate the crew. now perceived as a threat to the computercontrolled mission

Distress Beacon

Who should receive the Captain's emergency video log, but you-the player-a scientist abourd an unarmed spaceship doing biological research. On board is the Darwin 5 Scientific Observer Probe, a weaponless zooogical craft used to study alien life forms. including their DNA structure.



would have it, the player just might have a way of beating the odds. Interestingly, the Defender Robot and the Darwin Probe are machines that are opposites in purpose, yet eleverly and unequally matched: One built to destroy, the other to discover new life forms. Players must get into the cat n' mouse mind set of the earne and outwit rather than ourfield the Defender Robot.



Macetonh with CD-REM 7MB hand drive space, System 6-07 livels 32 kir. Quackdrew of System 71, incompatible with NEC COR 25 CD-ROW drive.

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shown: 610 x 450 256-color SVGA resolution. IBM PC/Contraction to Applicable October 1982

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IBM PC/Companies: Analistic Necessior 1983 Figuritos Windows** 3.1 Fight Simulator Toolkit (1993 Dominik Group Ltd.



Probe Able Cause

Once one accepte the mission, a feiry female Admiral explains, via video transmission, what action must be taken to stop the biological holocust. The player must then complete four separate phases of gameplay collect DNA, locate video clues, climinate the Defender Robot and destroy the Obrian.

Via remote control, the player pilots the unmanned Darwin Probe through the vast destroyer's erric corridors, chambers and ladder chutes. One must steer the Probe in a deck by deck search for DNA amples that provide access to the video logs left behind by the dead crew. The video messages contain the clues needed to stop the Delender Robot and destroy the Obrian.

Searching for the proper clues necessary to advance to the next stage of the game is just the beginning. The player's Probe must constantly clude the shap's deadly Defender Robots sentry who relentlessly stalks the Darwin. If a Probe is destroyed, players have two more Probes, and thus two more chances, to win within the allotted time.

Student Driver

After a movie-like animation sequence of the Probe entering the Obrian's shuttle bay, the screen presents the player with Darwin's well-worn Control User Interface, a panel that's uncluttered, easy-to-learn, and functional in its simplicity.



Clicking on the navigation arrows or using the keyboard, the player moves the Probe in the desired direction, including up and down. A few mouse chicks are necessary now and then to access various controls and functions, as well as to activate the Probe's Bobotic Arm for interfacing with the ship's computer termi-

Contributing to the claustrophobic feel of the game, the control panel features three small screens: two video feedback monitors and a Map Display Screen, which offers various schematic views of the ship, including a 3D orthographic mode that locates the Defender's position in relation to the Probe's

Staying alive means tracking the Defender's movements at all times. A Jam Signal Button is available for the most dite of situation; at close range, pressing this button will tempo-



rarily disorient the Defender. Though it does use a lot of precious energy, it's the only option when the Probe gers backed into a dead-end. The clock is running and the Defender

never stops hunting. The Probe can take elevators, fly up and down ladder chures, and move through corridors of the six-story Obtian. One can check out the Science Lab and a lawatory for sights easily overlooked, and access the crew roster from one of the terminals. (Hint: There's a safety some in Engineering where the Defender can't find the Probe.)

Briefing

Don't skip the well-written, metafally slim must than provides hard copy of the storyline, background information and muantes that make the game more enjoyable. The documentation also includes they with a warning to players that further reading will reduce the challenge of figuring out the gams on their own. Parists can struggle with this double-

edged offering for themselves.
With five skill levels of increasing difficulty, the game offers excellent replay value. The scenarios don't just get harder, each skill level is another game, where all clues, videos and solutions are different with no discernible partern. In the higher levels, the Defender is brould use skill level one to furnitiarite themselves with the Fow Helice environment before moving on to serious starcies and gameplay.

Pumping Iron Helix

Iron Helir has much in common with the film Blade Ronner. In both productions, futuristic set design and atmosphere dominate instend of characterization. Since the game's principle players, the Destroyer, the Defender



and the Probe, are all non-human, the scenario upon which the game is played becomes the star.

Iron Helfer uses first-race, realistic details to develop is noe-gothic, surrealistic world. The player sees Hollywood-standard cinematic sequences when the Defender Robor is defeated; the Probe uses a search light in darkened areas of the ship; the Probe's on-board computer randomly malfunctions, requiring a reboot to set the swseem on-line against the Thamatosians

come to life through the sounds of the opening

sequence; and fine actors portray the crew

members in the video loes

Since the game relies heavily on believable sound effects and its metallic, techno-best score to boost the mood of the savvy space opera, you shouldn't play the game without external stereo speakers.

On Probe-Ation

There's one notable hiccup that the designers should be razzed for: When the player's time runs out, an animation sequence shows the Obeian deploying the deadly Iron Helia,...and the Thanarosian planet exploding. That's one hell of a virus!

This is a minor lapse in logic in an otherwise rightly-constructed script. The designers have rectified and enhanced this shortcoming for the uncoming PC release.

Video Log Summary

How well a computer-generated game draws the player into its artificially-induced reality is the final litmus test for a game of this tops. In the final litmus test for a game of this bull-cole, photo-realitie world and the seam-less CD technology provide top-nects use-pension of disbelted and an intensely satisfying experience, Any player carrying coven a recessive gene for susceptibility to puzzles and flast-pack and the contract and the cont

Note: Players should make ture they have the most recent release of their CD driver. Also, players with color sideo display interface cards and a monitor capable of chaosign the display recolution, such as an NEC Multisyse FC monitor, such as an NEC Multisyse FC monitor, such change the screen to 460 X 480 (53 DPI) mode for a larger viewing area of the Prob's control panel. East

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Spectrum HoloByte's Mig-29 Rips Through The Iron Curtain

bu Tom "KC" Basham

limbing into the cockpit of a MiG-29 and locking onto a US fighter might feel strange the first time. The red stars no longer represent your mortal enemy, but your wingmen. The familiar F-16 is now your dreaded nemesis, and the technologically advanced US arsenal now focuses on destroying. rather than protecting, you. Yes, comrades, modern air combat is a whole 'nother can of borscht in Spectrum HoloByte's MiG-29, an add-on program for Falcon 3.0.

Behind The Iron Curtain

In MiG-29, the player lives the life of a Russian pilot in the Frontovaya Aviatsiya (Frontal Aviation), the tactical combat beanch of the Voyenno Vozdushnyye Sily,

the Soviet air force. The Soviet Union of old is gone, but somebody still has to keep those pesky Americans from nosing around in everybody's business

The MiG-29 is a completely different machine from the F-16. In some ways, the MiG is clearly superior to the F-16, but falls short of the mark in other categories. Spectrum HoloByte, with very little information available to them, have attempted to model both the strengths and shortcomings of the MiG-

To begin with, the MiG-29 lags far behind the Fe16 in terms of avionics. The cocknit is littered with analog dials and small indicator lights. Though it bears little in common with photos of the actual cockpit, the overall "feel" of the analog cockpit is maintained. A combat pilot from World War II would probably feel much more at home sitting in a MiG-29 than an F-16. The HUD displays basic flight information, but is less informative than the F-16's HUD, especially when displaying information about locked targets. Since little public information on MiG avionics is available. MiG-29's Radar Display is loosely patterned after the radar electro-optical display (REO) used in Folom, but like the HUD. displays less information than its Falcon

counterpart. All is not archaic in the MiG-29 cockpit. Two features set the Russian aircraft far ahead of many of its opponents: the helmet mounted sight (HMS) and the Infra-Red Search and

Track (IRST) system. The helmet mounted sight is exactly what the name suggests-a monocle mounted on the pilot's helmet that provides valuable targeting information when looking away from the HUD. Visible only in the padlock mode, the circular monocle overlays the target in the lower 3D window. Symbology is displayed within the monocle indicating the targetine and weapons status. The monocle can be used to acquire an off-boresight lock-on, meaning the target aircraft is not directly in front of the attacking aircraft, but on-board weapons are still tracking it. This allows the pilot to employ missiles against the target more reliably without switching out of padlock mode.

The HMS does have a few elitches. Although generally reliable, switching from padlock to forward view or vice versa usually results in the lock being momentarily broken. This can be annoying, especially when switching into padlock mode. Also, although missiles can be aimed by this off-horesight mode, they still suffer from poor hit rates unless fired from very low aspect angles

The IRST makes the MiG-29 a silent, but deadly foe. The IRST works by tracking heat emissions from target aircraft instead of by radar. Since the IRST only monitors hear from the target and never emits any signals of its own, it is completely undetectable by radar

MiG-29: Deadly Adversary of Falcon



286-12, 1MB RAM, VGA specifics



warning receivers. A MiG-29 could have an IRST lock on an F-16, and the F-16's TWI will be deed silent. Only after a missile is fired and the launch warning sounds will the target know he has been stalked. Both radar-guided and hear-seeking missiles can be targeted usine the IRST.

The IRST, which is limited to only a 10 mage, places the MG's made (code-named range, places the MG's made (code-named range, places the MG's by NATO) into standby mode. If the locked target moves out of IRST range or passes behind a cloud (which blocks the target's hear signature), the IRST will automatically activate the radar to maintain the target's hear signature), the IRST will automatically activate the radar to maintain the property it protects the attacket from losing a lock at some critical moment just before a weapon is launched.

The RST does have a minor glieth, has it intends to mily affect play. As result of the count transplay affect play, As result of the transplay affect play. As a result of the transplay affect play a

Yeah, But Will It Fly?

The Mic 29 iam old-fashioned, utile-and-ducle, thirdin man's aircraft. Unlike the fly-by-wire F-16, in which a computer monitor to fleel size flow of the movements and thereby adjust the control surfaces to steer the aircraft, the Mic 2-9 use plain of hybridatics to tral surfaces. The F-16's flight computer is tool surfaces. The F-16's flight computer is designed to monitor the piles's compared so in the monitor of the model of the monitoring the monit

As airspeed increases, so does the lift produced by the wing, causing the aircraft ro naturally climb. As the aircraft climbs, the speed decays, lift reduces, and the nose drops. When the nose drops, airspeed and lift again increase, perpetuating the cycle. Trimming is used to make very small adjustments to the light control surfaces to prevent this effect. At low speeds, the nose is trimmed us, to counter the reduced lift. At high speeds, the nose is trimmed down to counter the increased lift. The F-16's light compare hantles this automately, but the MiG-29 tequites manual trimming. Trim serings are valid only for a single suspect and light profile. If the aircraft secterates or deceleates, the trim must be reset to provide sable light. MiG-29 allows for both pitch and yaw trimming.

Trimming the Realistic flight model has turned out to be one of the lingues complaints with the MG-29 flight model. Although the seculal impact of trimming may be reasonably modeled in MG-29, afficient trim controls are not. The trim controls are very consisten, and the aircraft's trim requirements are a little over-done. The simpler flight models do auto-trim the aircraft to case the flight difficulty, but the Difficult and Realissic flight models require constant trim adjustments. The trim leven made extremely the correc-

tions and are usually too slow to counter "nose bouncing."
The MIG is far from unflyable, though. It does require a steady hand and lot of thinking, but with a good joystick it is quite possible to adequately control the MIG. The secret is in two additional trim controls which are documented only in the MGREADME_TOT.



incomposition and incomposition to control positions and the "5" key immediately locks the trim sectings to the current josticion sont the "5" key immediately locks the trim sectings to the current joystick position. This allows users to see the trim instantly no matter where the stick is. Spectrum Helodlyre recommended only using the keypad "5" to see the trim, but I found it is work better to first release the trim with the works better to first release the trim with the dilight position, and finally lock the trim at that position using the keypad "5".

This method has a few hazards one meets to be awate of Be sure not to press the keypud 5° unless the nose of the aircraft is exactly 5° unless the nose of the aircraft is exactly where you want it. If you are diving, but want to fly statight and level, you must first path the subject of the



the amount of G available for maneuvering. If you have an airspeed of over 400kts, but are unable to pull more than five or six Gs, you probably need to release and reset the trim controls.

"G" Whiz

Another effect of the manual flight linkages is that there's no computer preventing you from over stressing the airframe. The amount of G that can be instantaneously generated by an airctaft is based on how much lift the wing can generate at a certain speed. But, with lift comes drag, and drag reduces speed. Reduced speed reduces lift. Therefore, pulling maximum G will cause aitspeed to drop and reduce the amount of G the aircraft can sustain. At operational speeds, many aircraft, including the MiG-29, can instantaneously generate more G than the airftame can withstand. In the case of the MiG-29, at 500 - 600kts, a quick vank on the stick can generate 13 to 14G before the pilot can even blink

The aircraft modeled in MiG-29 can withstand a respectable 13G. Pulling more than 13G, even for a few milliaeconds, will damage the aircraft! At speeds of 700 to 800kes, a quick pull of the stick can generate as much as 18G and instantly disintegrate your aircraft. As with countering the manual trim effects, the "unlimited" G capability requires a very steady hand on the control stick.

MiG-29 does a reasonable job of modeling the complex flight dynamics of the real MiG-29. For example, the Spectrum HoloByte MiG-29 retains good control at speeds as slow as 100kts (a definite plus in a doglighty), and also handles high-alpha flight. Spectrum's MiG is capable of spins, tail slides, and even

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Cobra. Under some circumstances (which were not readily quantifiable), the MiG-29 will enter a flat spin. Normally this rare event would happen only after being hit by a missile, but at least once I managed to enter a flat spin simply by wildly moving the joystick during high-alpha flight.

Reach Out And Splash Someone

In addition to the new MiG-29 stuff, the package also updates Falcon 3.0 to version 3.02. In this new version, the communications programming has been completely rewritten to give players even more opportunities to blast their simulated friends



ally take less time to establish with improved stability during play. Warping (where the target aircraft seems to rapidly shift positions) still occurs at slower speeds (2400 baud), but this is a limitation of slower data transfer speeds and not a reflection on the program. At 9600 baud, warping is barely noticeable. Due to the rewrite, comms mode is not backwards compatible with older versions of Fulcon. Falcon 3.02 can only connect to Falcon 3.02 or MiG-29 1.00 players.

Players can mix and match comms play. In simple head-to-head mode, players can match F-16 against F-16, F-16 against MiG-29, and MiG-29 against MiG-29. Users should be aware that during F-16 versus MiG-29 matches, the F-16 player must be on the calling system and the MiG-29 player must be on the answering system. In allied play, players can fly as wingmen on either side of each rheater. Network play is the champion of them all, though, Network players can engage in a multi-bandit, head-to-head furball with multiple MiG-29s and F-16s screaming across the pixels. Better yet, notworked allied play allows two teams to play a concurrent campaign against each other! Local Falcon groups have reported three F-16 versus three MiG-29 campaiens.

There is one downside to the new comms mode: modem play is only supported up to 9600 baud. Higher through-put standards V.32bis, V.42 and V.42bis are not supported. This was not an oversight, but a design decision by Spectrum HoloByte, Spectrum developers stated during a recent CompuServe conference that these protocols were not included because the design team was reluctant to introduce them until a more robust comAnge Dage Dage Dage Ange Ange

The Tools Of The Jalconer

Keyboard Commander Corps' Falcon/Mia Utilities

An alternate view of the Red Flag man

Tith a program as big and as com-Plex as Falou 3.0 sitting on the hard drives of hackers around the world, it was inevitable that it be dissected bit-by-bit. It started with enthusiastic playors taking stabs at fixing bugs, passed through a massive shareware stage, and fi nally hit the commercial arena. Keyboard Commander Corps (KCC), the makers of keyboard overlays for many flight simulators, has begun marketing a set of Follow utilities designed to enhance gameplay and offer solutions to campaign-blocking prob-

A large number of freeware and shareware tools have been written to fix, back, edit and decode Falous Most of the utilities provided from KCC trace their roots back to froeware or shareware origins, but it should be stated that all products listed in this review are now fully commercia programs. The KCC products are not available from BBS systems, and it is illegal to copy and distribute them without icensing from KCC. This review only

addresses the commercial KCC products, not the many other shareware and freeware programs available

Since every version of Falcon has required a rewrite of nearly every usermade tool, KCC offers two senarate packages: ammander Utilities

for use with Operation: Fighting Toger (Falcon 3.01 and 3.01.1), and MiG Commander Utilities for use with MiG-Deadly Adversary (Falcon 3.02 and MsG-

291.00). Both Fulcon Communder Utilities (FCU) and MiG Communder Utilities (MCU) include the same five utilities, the only difference being version compatibility. All five tools use a simple, mousedriven interface, and each documentation files. Most of the individual authors, as well as the "Commending Officer" of KCC can be reached via Com-

puServe for support. F3MAPS

F3msps does many different things. First, as the name suggests, it lets the user change the default map used for Instant Action and Red Flag modes. Want to sightsee in Japan? Just switch the Red Flag map from Nellis to Kurile Islands and marn around freely. Second, it allows cus-

tomization of Falow options. Want to disable the view shifting when the ILS is activated? Want to remove unused data hoices and permanently stores them Third, F3maps allows customization of Red Flag armaments and automatic generation of random Red Flag missions. Want to equip a C-130 with Sidewinders and watch it take down a few unwitting MiGs? E3mass allows this in Red Flag mode (but not in actual campaiens). Want to fly a surprise mission? F3wars will senerate some doories based on input criteria such as how many aircraft on each side, how many ground forces, etc. Lastly, it has a "remove all patches" option which will remove all changes and restore the FALCON3.EXE and MIG29.EXE files to their original, default configuration.

F3REO

F3reris a soundron and campaign mansement tool. Similar in design to the shareware program Falous, this new utility adds a few new twists for those who feel editing their squadrons is cheat-

F3rey has two basic functions. As a soundron editor, it allows users change every attribute associated with a pilot: name, rank, callsign, flying skills

and even the number of sorties flown! Awards and promo tions can be given to pilots who distinguish themselves but are overlooked by

Falcon, and rank can be busted from pilots who Fakon unjustly awards, Fatigue levels for every pilot in the selected squadron can be set to 100% with one keypress. which is great when the user wants to start a new campaign using an existing squadron. Dead pilots can be revived and missing oilors found. Best yer, users can print a list of their pilots showing their callsigns and abilities, saving time when trying to determine which pilots to send on a particular mission. As a campaign editor, F3regallows users to edit resupply dates. edit pilot replenishment dates, and edit the stockpiles of all weapons available in the campaign. Need a few more AM-RAAMs? A quick trip to F3req will do the

F3regallows users two modes of operations, cheat and simulation. In cheat mode, users may freely edit rosters and

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munications package could be provided. Honefully, high-speed transmission will be included in Spectrum's next generation products. As with previous versions, direct connections still support band rates up to 57,600.

So What's The Downside?

Not everything is fixed or fully operational in version 3.02 of Falcon, Although MiG-29 itself is very stable and telatively bug free, very few of the previous Falcon bugs have been fixed. Users should not be expecting a total re-write of Falcon (except for the comms code) in MiG-29. Wingmen may still fly into the ground, bandits still are eteated at random positions, and the padlock view still distorts the view apple through the HUD. MiG-29 doesn't introduce new bugs, but it doesn't solve all of Fulcon's problems, either,

The most annoying aspect of MiG-29 is the new redout/blackout model. Coming in four varieties (No Effect, Moderate, Difficult and Realistic), the new scheme, which is retrofitted to Falcon as well, tries to model several effects: tate of G onset, blackout and tecovery. Unfortunately, the "more realistic" settimes present the least realistic effects. At the hardest setting, the program makes no distinction between blacking out and GLOC (actually losing consciousness after losing all vision). Once GLOC has set in, it lasts for a minimum of 30 seconds according to Specttum programmers. During this period, all flight controls are disabled. After that, depending on various flight conditions, the GLOC may continue or the pilot may enter a 30 second recovery period. During this recovery, any subsequent G loading, even as little as 1.5G, can cause total vision loss or more GLOC. Needless to say, once a pilot has entered GLOC under the Realistic setting, he's more likely to take a missile up the tailpipe than to recover.

This effect contradicts what numerous combat pilots have told me, as well as my personal experiences with G forces. Tolerance to Gs builds with exposure to Gs and anyone flying high-performance combat aitcraft as a profession would have better recovery than this, Fortunately, Spectrum HoloByte has not imposed this scheme on players by giving three additional blackout models to choose from Based on my personal flight experiences, I found the Moderate setring to be the most suitable.

The Wrap Up

MiG-29 is not a bug-fix patch. It doesn't increase the resolution of the graphics or speed gameplay on slower machines. What it does is provide a new set of challenges designed to broaden Falcon's appeal. Flying the MiG takes a lot more skill and intervention than flying the F-16, but once mastered it really is a "deadly adversary." tow

Arm Arm Dog Dog Arm Arm campaigns to their heart's desire. In simulation mode, however,

aren't so easy. With-out F3vop, users are at the mercy of the whims of high-level distribute supplies. With F3ree in simu-

officers inside Falcon who run the war and lation mode, the user is still at the mercy of those whims,

but has a few contacts in the chain of command that owe a few favors. MIA ilots cannot be automatically restored to light status in simulation mode, but a special SAR mission can be launched to search for the pilor. The odds are good, but not perfect, that the missing pilot will be found. Need a few more AMRAAMs? Fill out a requisition and go visit your old pal, the Stores Officer, How big is the request

Only a couple of missiles? Sure, no prob lem. What's that? You want 500 missiles? Don't let the door hit you on the way out. Maybe the Stores Officer remembers the 300 missiles he diverted your way last week and decides enough is enough. In simulation mode, the user has to be careful and not waste the limited number of favors available. Luckily, users can switch back to cheat mode at anytime.

FALCCALC

Falerale is a friend in the INTEL office. During campaigns, this friend knows almost everything about allied operations concurrent with your flights. Also, this friend has access to enemy intel and can provide a lot of information about enemy operations. With MCU, users get two separate executable files, Folcoole for use with Falcon, and Migcale for use with MiG-29. We'll use Falerale to refer to both

programs. Falcosle, like most tools in these packages, has two purposes. First, it gives detailed analysis of waypoint timing and fuel usage, helping users to choose between a centerline fuel tank or an ECM pod, and adjusting waypoint speeds to ensure all flights arrive on time. Second, it is an

amozino source of strategic and tactical information. In tactical terms, Falcoale lists every flight, both allied and enemy, occurring

during the upcomne mission. Even the dreaded randomappear-out-of-now here flights that plague Winchester pilots on the way book to base can't escape Falceale's attention. In strategic terms, Folcoole gives details on every node

Check your fuel status with FALCCALC. was how how how how how

the campaign

theater, listing how many and what types of units are stationed there, and which side currently controls it. Do we need a flight of SEAD aircraft to tackle SAMs before the strike package arrives? Check how many SAMs are at that sight according

to Falcoale Falcoale aiso lists victory nodes for each side, so users know exactly which

With F3REO you can edit

campaign supplies.

nodes must be raken and which nodes must be protected.

SHOWF3

Show B allows users to conveniently view Falcon screen captures. Undocu-mented keystrokes of ALT+ (when in menus), +ALT+ (when in flight), and Z. from the ACMI mode in version 3.01 or later) will comuse the screen and dump it to | B rhe hard drive in a non-standard formar. requiring a proprietary rool from Spectrum Holobyte to view. Slong will not only display these files for you, but will also convert them to standard .GIF or .PCX files. Catch those Kodak moments of flaming MiGs and perfectly pickled bombs!

KCC

KCC is a front-end interface for the DOS-haters out there. Using an openended architecture. KCC allows users to only select utilities from the FCU/MCU packages, but to also add their own menu items. Like a good front-end program should, KCC completely unloads itself from memory before executing called tasks, leaving maximum resources for memory hungry programs like Falcon

In addition to the five utilities listed above, MCU and FCU come packaged with over 20 Red Flag missions designed by Howard "Whiplash" Bornstein, author of Falcon 3.0: The Official Combat Strategy Book, FCU contains 28 missions, M. has 30 different missions, both of which are accompanied by a file describing trainme objectives and tactics.

In summary, these tools are all quite useful. Keep in mind, they are not Spectrum Holobyte products and do not have the elamour and elitz of Felesu itself. They are all created by avid Fulcon players using a straightforward de-

sign to provide useful features and in-The formarion. FCU and MCU retail for \$19.95 each and can only be our chased directly from Keebsard mander Corns as 800-262-6066

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All Aboard The Role-Playing Terrain!

World Creation Made Easy With DIGITAL Alchemy's Adventure Writer For Windows

by Chuck Miller

Easy Writer

hether traditional "paper and people" role-olesses Map creation with AWW is relatively easy. One selects the desired terrain (from mare, especially as their complexity increases. With this in mind, DIGITAL the built-in or add-on terrain types) and color (from a palette of 16 pre-defined colors), then "pastes it down" in the target hex or souare. One click of the mouse Alchemy designed Adventure Writer For drops the terrain in place; another click removes it-olain and simple. Text support is also provided and allows descriptions of up to 20 characters to be placed in a bex or square, with text size automatically adjusted to fit the available space. Larger blocks of text can be saved as documents through the built-in document editor, though it will not be dynamically linked to any narticular location on the map. However, by selecting the Show Number option, the number of each bex and square can be displayed. This can then be associated with the written information in the document file.

> Owners of IBM compatible computers should have no problem using AWW as long as they meet the minimum requirements (a 286 or better with Windows 3.0 or greater, 1MB RAM minimum, VGA/EGA graphics, and a mouse). With Version 1.0 available for almost a year now, no major problems arose during my testing of the program. However, I did detect several weaknesses which are described below. Fortunately, most are being addressed in Version 1.1, due to arrive just after the first of the year. Version 2.0. scheduled for release at Gen Con 1994, will offer even more significant improvements.

Dirty Windows

As capable as AWW is, it still needs a little smoothing of rough edges and a few cosmetic touch-ups. Of course, as a Windoses-based program, it suffers from the same plight as any other graphic-intensive products-it creeps. Optimal use requires a 386/33 or better system and an accelerated graphics card; otherwise repainting the screen when accessing the add-on terrain packs, zooming in or out on a map, and scrolling the terrain window can be tediously slow.

Access of add-on terrain packs also needs improvement. Presently, a second window must be opened in order to select

from these terrain types, making it a timedevouring process, especially with the

larger packs. The program could also use additional fonts and improved graphic representations for terrain types (the existing images are, for the most part, a bit crude) Easier color selection is also needed. At present, one must scroll through colors one at a time or select a color from the menu by description. A greater selection of colors and user-defined palettes (in the works), and a wider selection of zoom levels would improve AWW, too. Finally, adding the ability to save and output maps to a postscript file, and the ability to create one's own terrain types (scheduled for Version 1.1) and to edit existing terrain would increase the usefulness of

Mapping Out The Future

In its current form, AWW offers roleplayers a speedy way to produce their adventure and campaign maps. In spite of its weaknesses, AWW's many tools make it an eminently useful program. With it, adventure and campaign design is easy, even for a novice.

In all, users of Adventure Writer For Windows will find their time used more efficiently and the quality of their finished maps much higher. This, in turn, will allow one to devote more time to the creative process itself.

For more information on Adventure Writer For Windows (or the DOS version), contact the publisher at:

Dieital Alchemy 11469 Olive Blvd., Suite 223 St. Louis, MO 63141 (314) 625-3657

Windows (AWW), a map creation utility for non-computerized role-playing games. Thankfully, as a result, the Game Master's life has been greatly simplified.

hexes and squares or not, creat-

ing game worlds can often be a real night-

A World Of Features A WWallows players to create maps and documentation for adventures using both hex and square maps, providing 32 terrain types. The terrain is nicely varied and includes elements (water, air, earth and fire), indoor terrain (wall, door, stair, pit and trapdoor), outdoor termin (castle, tower, village, archway, mountain, hill, forest and swamp), outer space (planet, star, asteroid and space station), dressing



(pentagram, body, debris and treasure) and specials (color, text, compass, and encounter). In addition to these built-in termin types, several add-on terrain packs are available: Natural Caverns, Medieval Arms & Armor, Possessions & Accessories, Great Outdoors and Ground Forces. Scheduled for September is a sixth pack. Cata-

Other features include a built-in document editor, text captions for hexes and squares, and B&W and color printing. The printing options support 15mm and 25mm scales, and allow one to print the entire 50 x 50 map on a single page. Print quality is good, especially from Isser and ink jet printers. AWW is also a Windows MDI (Multiple Document Interface) compliant program, allowing multiple maps and documents to be open and edited simultaneously.

Page 160

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Circle Reader Service #128



At Origin's Esteemed Wing Commander Academy

by Paul C. Schuytema

virst, the bottom line on Origin's → Wing Commander Academy, if you enjoy space combat simulations, you must have this same. Period. While the game chalks up the standard

fare of deficiencies and kudos, it has instantly become a mandatory element in any serious space combat library.

Wing Commander Academy is the third primary" product in the Wing Commanuler universe created by Origin. In the timeline of their fictional world, in which the humans are continually battling the remarkably renacious Kilrathi, it occuts after the conclusion of the Wing Commonder II story line. The game is a simulation of a simulator, a combat simulator, that is, Colonel Jack A. Lombard is now employed as a flight instructor in the Wing Commander Academy after being nearly killed when his wingman, Maniac, didn't follow orders. He lost an eye in the battle and, reminiscent of "Jelly" in Heinlein's Starship Troopers, he has turned his attention to honing and improving the caliber of the Academy's recruits.

His first observation after coming to the Academy was that the combat simulator was good, but not neatly good enough. It needed to be improved. Putting the Acadenw's programmers to work, he created an entitely new combat simulator which used holographic projection technology to recreate, vividly and completely, the experience of flying a Tetran star fighter. He also made the simulator customizable so that new cadets could create missions to test their classroom learning or work out problems and tactics. The Colonel stresses that while the simulator isn't as real as actual combat (you can't hit the pause key in real life), it's as close as it gets.

Wing Commander Academy (Academy) isn't a simulation of the entire training academy, but tather a concise simulation of Colonel Lombard's combat simulator, short and sweet. Working with the simulator, players can generate countless missions, from the retrieval of an ejected pilot

to taking on four Ralatha destroyers after weaving through a mine field.

Academy is a stand-alone game. Possession of the other Wing Commander (WC) comes is nor mandatory, but berein lies one of the faults of the game, While it is a stand-alone product, it relies heavily upon the fiction of the previous two games to set the tone and atmosphere. ust playing Academy without previous WC experience reduces the game to a dogfighting simulator (albeit an excellent one).



alone product, it allows players to hone their combat skills before purchasing either WC game, and, most importantly, it allows players to enjoy doefighting without the time commitment of a sweeping adventure game. A saved mission can be ready for play in the time it takes to boot up a computer, and I've found myself taking down a few Kilrathi with my morning coffee before heading off to my nine-to-five. It gives me that killer edge that truly frightens my coworkers.

Before going into more likes and dislikes, lets discuss the nuts and bolts of the game. First off, the game is incredibly simple to play. The manual is optional since setting up and designing missions is very intuitive. When the game besins, the player is ptesented with a view of the

"holo toom" in which the configuration controls make up the dashboard of the simulator. Clicking on the controls brings up a full-screen of the mission configuration computer. From here the player may load and save missions, create them from scratch, run the "gauntlet," or modify existing missions

Each mission may have up to four "nav points," or theaters of action. Players of the other WC games will immediately recognize the nav points as the way the missions were broken up in those games, with players flying from point to point, to search, escort and battle the ubiquitous Kilrathi.



Creating a mission is as simple as select ing a clear nav point and then clicking on one of the buttons representing an object. from friendly ships and Kiltathi capital ships to data pods and asteroid fields. A small window on the left of the simulator presents the player with a rotating image of the object, and clicking on the nav point screen will place it in the mission. Players may select their choice of ship.

ng Commander



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and whether or not to have a wingman (as well as the caliber and character of the wingman). Clicking on the 'execute' hutton brings the player back to the holo room; the walls dissolve way, and suddenly the player is in the cockpit of a fully-juiced interstellar fighter in the middle of a dogripht.

Combar is quick and breathraking, with the welcome addition of a sequential parameter that allows the player change the pace of the simulator. With each successive Wing Commanular game, Origin has refined the graphics of their binmapleolygon three-dimensional space system, and Academy presents the best graphics, yet, by far. Ships are sleeker and more defined with colored marking and state of the second state of the colored marking and shall be successful to the second state of the desire of the desired with the state of the desired with the second state of the second state of the desired with the second state of the second state of



The combat cockpits will be familiar to WC aficionados, with one display for communications and targeting information, another for damage assessment and weapons loadout, and a radar screen for tracking bosies. The technology in the WCuniverse has been steadily improving. and the player can control side and rear turnet guns, as well as enjoy the benefits of TTTS (Improved Targeting and Tracking System) tracking. When a target lock is activated with the new tracking system, the player's shipboard computer calculates the enemy's trajectory and presents the player with a leading reticle, allowing greater accuracy in leading blaster shots into a Kilrathi's hull. This is a great help since in space, where there is no absolute speed, only relative speed, it is often hard to tell how fast or slow the enemy is moving with visual cues alone.

A player may choose to By the full range of We ships, from the Volkswagen Bug-like Ferret to the advanced Morningstand choosing between flighter and bourser types. Two additions are noteworthy, two additions are noteworthy. We are shown as the same and sellarsh have his the drawing board to up the technology ante, and each have a new lighter in prepoduction tensing the Wristin and the control of the same and the same



The simulator also offers the "guardiet" mode, esentially a training game which presents the player with 15 levels, three waves, each, of attacking Startali. A player's ship regenerates shields after each wave and is fully regarded and reloaded after each level. Like a good Nintendo game, he who chalks up the highest score with, and his name is presented to all who enter the holo come for combart rainings.

I found a lot to like in this game. In today's market of ultra-complex games it is a true hearth of fresh air to find a game this simple and easy to play (or rather to set up to play—running the gauntet or taking down four Ralaris is next to impossible), and one that comes on only three disks.

On the most important criteria for any game, fun, Academy comes up holding five aces. This game is an absolute ball to play and presents the player with almost zero frustration (except from the challenge of attempting to complete a difficult mission). The simplicity of the interface means that 90 percent of the time will be spent in white-knuckled dogfighting, and the only potential hazard this game raises is trigger-finger calluses. Oh sure, some will argue that this game merely turns a several thousand dollar computer into a Super Nintendo system, but those will be the ones who haven't played the game and who tend to shun roo much fun as bad for their health.

Taking this game at its Retional face value, as a training simulator to prepare you to better light the Kiltrathi, it makes a wonderful companion product to the previous WC games, and it is even possible (but not all that realistic) to head out on a WC mission, gather intelligence, then closely recreate the mission's bazude.



in Ansdemy to "safely" work out a successful strategy.

l also like the fact that the mission files can be copied and traded, uploaded and downloaded. This feature will help to bring the WC community closer together and will allow a player to assemble a library of truly great missions.

Perhaps the best aspect of Academy is that it can be a truly social game. Missions can be short and sweet, allowing friends to get together and play for a while without the cumbersome learning curve of a full-blown adventure game to get in the way of immediate playing satisfaction.

I did have some quibbles with the game, mostly things which I feel Origin should have included but didn't. Some of these I consider necessary, other make up more of a wish-list.

First, only the gauntlet mission keeps track of the player's store. Each mission should have it on scoring, allowing the should have it on scoring, allowing the should have the source of the store of

tor, it should have some type of mission recording function, or at least an instant replay function. This would allow the cadets to replay their failures and successes and learn from their missides. Finally, I would like the mission builder

r-mally, I would like the mission builder to be a touch more sophisticated, allowing the player to create such thing as excort missions, delayed enemy encounters, and navigational flying.

tests, ander navigational Hyring. In all, Academy is a termendously exciring game, one which provides many, many hours of play and replay. One of my favorite missions, and one which I'm sure goes against the Academy's code of ethics, is to see up a mission with only a wingman and no enemies (flying a Ferret is best—

and no enemies (flying a Ferter is best they only have a single weapon, a mass driver). I start the mission and then turn on my wingman, going mano-a-mino until one of us blows. The combat is firere, and

the obscene shours of "traitort" really get the blood pumping. Well, enough banter. Time to head for the holo room and punch up mission number 23 to see if, this time, I can get through those three Drakhri and take out a Dorkathi transport with my lowly Ferret. Wish me luck! case

COMPUTER WARGAMING WORLD

"I Came, I Played, I Conquered"



COMPUTES
WARGANING WORLD

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How Goes The Battle?

by Alan Emrich

ur New World Computing Empire Delicer tournament has moved into the semi-finals after some tweaking of the official CGW Tournament Scenario, For those who want to modify their Empire Deloor game to keep it current with our tournament quarter-finals through finals, here are the changes to make:

1. Move the Green Capital 2 squares south to 51.28. 2. Decrease Troy @ 27,29 from 146% to 100%. 3. Increase Tobruk @ 4,31 from 100% to 147%. Increase Turk @ 51.31 from 63% to 72% 5. Increase Essen @ 7.42 from 128% to 147%

7. Increase Greeny Gross @ 36.6 from 102% to 129% B. Increase Limbough @ 30.10 from 100% to 129% These changes seemed to have eliminated the

pro-blue bias that roumament testing has found in the scenario. Moving into the semi-finals are Henry Gale

(of Westwood, MA), who defeated Bob Pryslak (of Scarborough, Ontario, Canada) in a humilaating display of superior luck. Mark Conder (of Littleton, CO) won a seesaw contest against Melvin Ellis III (of Tupelo, MS), who deserves a special award for being among the most complimented players by his opponents. Ray Matthews (of Assonet, MA) upset Bruce Marchesani (of Lindhurst, NJ). In this particular contest, the computer player (commanding the red forces) came out strong and, when the smoke cleared. Bruce was in far worse shape than Ray, Finally, Michael A. Kohn (of Walnut Creek, CA) did one of his famous "MAK" attacks and defeated Walter Haberer (of Tueson, AZ).

Wargames And Rumors Of Wargames: Atomic Reaction

Following rheir recent announcement that they had signed a deal with Atomic Games (designers of the V for Victory series) to create a Squad Leader game for the computer, The Avalon Hill Game Company continues to push ahead with an ambitious schedule of releases for late 1993 and throughout 1994. Added to the list is a computerized version of their Blackboard game, designed by Hall of Fame designer Richard Berg.

Rumor also has it that Avalon Hill will be publishing a second game from Atomic, due out in the first or second quarter of next year. Not surprisingly, it's an operational level WWII game covering the buttles around Gazala in North Africa, Are there shades of what would be the next V for Victory game in an Avalon Hill wrapper? I think so. What happened between Atomic Games and V for Victory publisher Three-Sixty Pacific?

According to Three-Sixty's President Tom Frisina, "Atomic and Three-Sixty will not be working together any longer on the V for Victory series. The collaboration we had was terrific for both companies, and we're really soing to miss those guys and their talenr. The split was busically over the strategic direction of our companics. I'm very proud of what we accomplished with Atomic." (Three-Sixty will continue to support the V for Victory games through Gold— Inno-Sword, including the new 4.0 upgrade for the entire series.) It appears that in the separation between

Atomic and Three-Sixty, the former got the V for Victory game engine while the latter got the V for Victory name and marketing rights. This means that the Atomic/Avalon Hill Gazala game is likely to have a very familiar feel to veteran V for Victory gamers. Tom Frisina con-

"Games more along the lines of Harpson II and Victory at Sea will be Three-Sixty's future. Less of the hex grid and more of the open. unrestricted presentations will be featured. However, we will be continuing to publish products from Colorado Computing, who did Hich Command

Tom also said that wargamers should look for an Atlantic/Med version of Victory at Sox, plus lots of Harpson II BattleSets for next year.

Over The Horizon

On other fronts, Scott (Ande de Camp) Hamilton is busy on his sequel to Point of Attack. It is an as ver untirled ractical WWII Eastern Front game using a "much improved" Point of Attack game engine, with several graphics, sound and interface enhancements. Scott is doing this even while Gary Grigsby (War in Russia, Pacific War) is busy working on a new game covering this same topic and scale, tactical WWII Eastern Front. I guess I'd better get out my old Panzer-Blitz boardgame and work out the rust

Not to neglect the Western Front of WWII. Closb of Steel designer Martin Scholz will apply its engine to a new game covering the campaign in France, 1944. While the scale will telescope down a bir (from Club of Steel's grand strategic to a more straregic/operational level), the play will feel the same. He is also completing a Version 1.1 parch for Clarb of Steel (see Part 2 of my COS strategy article in this issue for details)

Std Mrier's Civil War (yes, they negotiated with Avalon Hill to use that title, too!) is still on hold while he puts the finishing touches on CPU Back for the new 3DO system. However, Impressions' Civil War game from Ed. (Air Bucks) Grabowski will be entitled (not to be outdone by Sid Meier in the name recognition department) Ed Grabousky's The Blue & The Grav. See you in the trenches! EEW

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Empire Builder

Excerpts From Empire Deluxe: The Official Strategy Guide

by Alan Emrich with Mark Carroll

In addition to being CGW's On-line Editor, Alan Emrich has also become a prolific author of game strategy books. In his latest book, Empire Deluxe: The Official Strategy Guide from Prima Publishing, he and his co-author Mark Carroll include a chapter on designing scenarios for Empire Deluxe. While the wisdom imparted is particularly germane to the game in question, the discussion of same design philosophy can be applied to the general pursuit of scenario

ust as there is a difference between teaching young people about sex edu-cation (tead: "human plumbing") J cation (tead: "human plumbing") and sexual telationships (read: "love and emotions"), so there is in learning about creating scenarios for Empire Deluce. While the game manual was long on plumbing," it was completely lacking in the "love and entotion" aspects of scenario designing. Therefore, this article will focus in on the heart, the soul, the nonion that makes for enjoyable scenario designs in Fausire Deluve

Once your right brain is stimulated into creativity, you will also find a few things that your left brain will enjoy. Primarily, these are ways to complete your design so that your man contains many interesting and challenging features. Also, a few special nuts and bolts features are included in this atticle to supplement the game's documentation. As examples, we will refer to the scenarios we designed for Emoire Deluxe, as included in the released version of the game.

Scenario Design Philosophy 101 Every scenario should set out to accomplish something before the creation process begins. You, the designer, must determine what design goals you want to

achieve and keep them clearly in mind as you place every unit and lay out every bit of terrain. The philosophy of your scenario design is the glue that holds it together as you construct it. It also gives you a vatdstick by which you can measure your design's success or failure once it is completed

To focus in on a clear design philosophy from the outset, here are some questions you should be asking yourself. The answess will clearly define the scenario's purpose and give you a goal to achieve when designing it.

Who will play this scenario?

How many players is it intended for. and how many of them must be human? For example, the Sea Lion scenario is designed strictly for two human players. This is because of the weaknesses in the AI in dealing with large land masses, economic build up, and the need for some extraordinary cunning in maneuvers and combat ractics - all key elements in the game's design philosophy. When this sce-nario was conceived, the decision was made to make it a grand test of Empire Delrow skills for two serious human players. Each faces his own dilemma, and the situation covers one of history's greatest adurtifs.

How long should this scenario be?

The answer will affect the size of the map and can influence the special rules included with your scenario design. The size of the map has a major affect on game length. If the goal temains, simply, world conquest, your experience will have shown you that larget maps increase the amount of time needed to conquer them. Not all scenarios require the largest map size available to be challenging.

You may also wish to impose a turnlimit on the game. For example, the German player must win the Sea Lion scenario by turn 200 or he loses. Similarly, the CGW Tournament scenario ends on tutn 200 or immediately after one player controls all three starting cities

Will this be a historical scenario?

If so, you will want to do some research. An atlas will help with the termin, of course. A listing of the military units that fought (called the "order of battle") can be harder to find, but if the subject you've picked is also the subject of a board wargame, its pieces should be easily translarable into Empire Delsoe units. Designing historical scenarios can be challenging, but it is equally rewarding when you have finished them.

Or will I need to be really "creative?" Whenever you're creating the map and

unit set up (if any) from your imagingtion, this should inspire more questions. Without a historical situation to recreate, you must really focus in on what you'te trying to achieve. Beyond your answers to the previous design philosophy questions, consider some of these:

- Will this be a "borrowed" or original map design?
- What size map shall it be? Will there be many or few land
- masses and what will their sizes be? What special terrain features, if any, will influence play? How will I paint the "economic
- landscape? Where are players going to start? How strong will their initial forces

Commune Compile World

DESIG

How will this scenario be won? What other special rules, if any, should I impose?

This is where you can really define your scenario beyond the structured imposed by Empire Dathoe's inherent design of "discover and conquer the world from scratch." Between the possible variations on the sighting, rules (nothing visible, all visible, or may notly visible at all times) and defining what unit types are available, the designer is given loss of flexibilities.

You can also artificially impose the game level played (i.e., require using the Advanced Came rules for your scenario) and what difficulty level the computer players must be (usually experts). Furthermore, you can even specify which players should have what degree of handicaps as put of your scenario's sprand design scheme.

Map Design: Setting the Dimensions

The map will greatly affect the scenariobeing played. With so many variables to the played with so many variables to you draw on it, if is crucial to be two wilthought our plans. As many have discovered, one's enjoyment of a paticular game of hunjar Dobase directly relates to how interesting the map is. Therefore, and the played of the played of the played not translated from an aduly, tenenable to type of terrain formations that you found interesting in previous games and type in drawing the previous games and the type of terrain formations that you found interesting in previous games and

Map Size

Generally, nothing defines the "naturral" length of a game more than the map size, since a "natural" game requires a single player to spread out across the enrite map and conquer it. Usually the map size also corresponds to the amount of time it will take ro design a scenario.

You initially define the map dimensions as you begin to create a scenario. The height can range anywhere from 20 - 150 squares, while width may vary from 20 - 200 squares. This can create maps as small as 400 roat squares as square or as large as 30,000.

Besides affecting game length, map size can also affect game play. The larger a player's borders become, the more units must be detached for securing rhem. This means more air and sea parrols. The size of the ocean and the distances between land masses and air bases also have a direct affect upon the viability of using aircraffer arrives in a direct combut support role. Remember, units move slowly on the Empire Deleve must be more slowly on the Empire Deleve must be more slowly on the Empire Deleve must be fined to the size of t



Using an atlas, one user was able to design this incredible map of Scandinava.

the more time a player will spend shuffling his forces around.

Map Design: Not Starting From Scratch There is no rule that says every map y reare has to be entirely original. In for

creare has to be entirely original. In fact, namy first time scenario designers get 'artist's block' when they state at the blank map of the scenario cliting screen. It is very common that you simply will not know where to begin. Fortunately, Empire Deluce's scenario clitor has made this problem fairly casy to overcome.

Randomly Generated Maps

Randomy Generated ways. First, from the Map memo of the scenario editor's Menu Bar, you can always scheer Bauld World. This will fill your pre-selected map aire with a typical, tanpor don't filte the look of ir, explace it hy generating anorthe one until you find one that has the core map elements you're looking for. This will give you a good sarring point for your map design that you can then modify to suit your exect needs.

Previously Saved Maps and Scenarios

Another way of instantly putting a map on the canvas is to start with a map that you previously played and enjoyed. For example, let's say that you want to design a scenario featuring the entire planet Earth. Well, since we already provided you with a map of the planet in the WWII scenarios, all you have to do is load one un and select Save. Just be sure to save the map, and not the game. After you give the map a name, extr our of the scenario, re-enter the Game Editor and either select that map to starr with or, from the File menu, select Load and then Map. Any rime you're playing a scenario on a particularly interesting map, save ir separarely. It might inspite you to design a brilliant scenario for it.

Phyers can also import maps and from the sold Engine game for the sold Engine game face game called from the sold Engine game face game called an and south only become playable Engine Defice maps. Unfortunately, because of a bug discovered in the IBM 2xx versions of the old Engine game, some maps might out of Engine Defice. A "The Program called "FIKEM-EXE" is wallable on both Clein and Computerse, and directly from New World Computing.

Translating a Map From an Adas Finally, another way to make sure that you're nor simply drawing onto halank carnes is to use an atlas and simply try to paint the map you see. Of course, you should work out in your mind some sort of scale when you begin ("Let's see. I want France to be about 1.5 aquares across...") and then try

to work things our proportionally. Begin by drawing the outline of a dosen port. Next, fill it in with clear termin and then place the important retron on all other place the important retron on all After than do it with appropriate cities and then. But he supported the supmap decort look right after it is initially drawn from an alse. It will probably such a bit of Haging before it really works. In the heat of burth, however, Impire Defore players will easily overclood miner proposed to the place of the support of the proposed of the place of the place of the proposed of the place of the place of the proposed of the place of the place of the proposed of the place of the place of the proposed of the place of the place of the proposed of the place of the pl

Using Grid Coordinates

There is one undocumented map making road that you will find particularly from an also, I is the gold coordinate system located on the Information Barboung the up of the streen. If you have no brushes selected (i.e., you are not readty or junit "any new ternain feature) the you are in "information mode." In this mode, elicking either muose burnot mis mode, elicking either muose burnot and the grid coordinate for that square.

grue coordinate for this square.

Each grid coordinate consists of two
numbers separated by a comma. The first
number is the location's horizontal position on the map that increases as the
tion on the map that increases as the
tion of the map that increases as the cutsor moves toward begin
in the top-left corner at 0.0. This square is
abova an unplayable bonder's quare. If
you are looking for square 0.0 on a range
that the map that the map the top of the part of the part of the part of the top of the part of the par

Nerronber 1993 Page 167

actual "wrapping point" (horizontal zero coordinate), but it will coincide with the moment the lower scroll bar button jumps from one side to the other. Using etid coordinate numbers when

Using gild constitutes numbers when you design a map will belp you piace strategic textain far enough paper to affect are operations. For example, you might place two ciries across an occan so that they cannot simply fly across and rebsec there. Instead, players must build carries or air bases to operate simplanes between them. You can also place ciries so that they are 13 squares apart, keeping bombcus from sariking them and returning home.

Map Design: The Geographic Landscape

With the issues of map size and starting points decided, it is time to start filling points decided, it is time to start filling points decided, it is time to starting at you control to the starting points of the starting at your points to put in thereif If you didn't you points to put in thereif If you didn't start your new map from retained or used an atlax, you siready know and it's just a matter of getting it adjusted the way you like it. When you're stating at a blank state, though, what do you delta.

.

Land Masses
While it is enjoyable to dot a map with
many small blands, larger continents
make the most interesting textian features. Since they take longer to explore
and oxputer, and they usually posses sevexil cities, larger contrients tend to become lighly—mathreld focal points of a
come lighty—mathreld focal points of a
come lighty—mathreld focal points of a
honger when larger continents continues
the map, they do add spice to old fishisored "land hosping" scenarios.
A good variety of land mass sizes and

locations are often the best way to go. However, if you have a theme for your world in mind, use it instead. Pethaps you want a world with only one-square islands or one that is solid land—if so, then build it! Only when you've created such worlds and tried them out will you know if they are fun to play or not.

Smooth Versus Difficult Landscapes. When deciding what type of trerin will be placed where on a land mass, ask yourself if you want it to be easy or difficult for arrane to traverse. While difficult for arrane to traverse. While difficult consideration of the constraint of the cons

Since there are no toads in Empire Delawe, it is interesting to cut through patches of difficult terrain with a path of cleat terrain squares for atmor units to move through. This is particularly useful

squares for atmor units to move through. This is particularly useful through mountain ranges that are otherwise impassable to tanks. Although it does tend to channel the tank's movement, at least they can get through a mountain range but not as guickly, run a river pass through it instead, as Figure 14-3 illustrad, as Figure 14-3 illustrad.

trates. Rivers aren't strips of clear friendly places for armor to attack, but the tanks can at least bog through them if they

Strategic Interaction Points

Confluence points out map where Confluence points out on the proposed of the process of the proposed of the prosented "enails" each have their place on an interesting and enjoyable map design serviced "enails" each have their place on an interesting and enjoyable map design particularly "enails ports," as strangle interaction points. Remember, Johing larget land masses and occurs as a nexus makes controlling it more cuscial during play.

Computer AI Considerations When Mapmaking

If you have examined the Earth map closely, you may have noticed that the Panama canal is just an ocean square and that North and South America are nor joined via the Panama ischmus. The designers did this in response

to a feature of the computet players - or "Artificial Opponents" (AOs). They will primarily concentrate their production on securing an entire land mass before gearing up to move off it. Thus, when these two continents were connected, an Allied computer player would always spend many turns conquering South America and building up a huge, lumbeting land force to do so (and no navy). Because of this, a computer player would be playing the Americans quite ahistori-

cally. Their solution to



Though there are no roads in Expire
Derizze, you can simulate them by running
strips of clear terrain or rivers through mountains and forests.

this problem was to sever North and cy South America.

Therefore, when designing a scenario map where you plan to have computer players competing, be careful acto to concer all the land masses or the KOS will actor to concer all the land masses or the KOS will be computed to the computer opportunity of the control that even when computer opportunities that computer opportunities are cleak justice, but in least near paround transports to conduct coordinated, large cacked invasions. Duri plan are may around to be the primary participants. Large said invasions and players of transport of the primary participants and present the primary participants and present the primary participants. Large said invasions and players of transport ships are something that the AOs simply will not delive.

Finally, computer players are used to 'knowing' that there will be a port on every land mass (as is always the case when the computer randomly genetates a map). If you create land masses without ports, it will hinder the AO's ability to play a decent game. The net effect will be to further reduce a computer player's naval production and slow his ability to transport tanks and armies off that land mass.



The two units on this map sit at important strategic interaction points. You can bet that these two areas will see a lot of action over the course of a game.

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Map Design: The Economic Landscape

When we say the "connomic landscape" of a world, we're talking about cities. Not only how many will be placed on the map (up to a maximum of 200), but also where and with what production efficiencies and specialties. Consider the following:

City Density

Cities can be more widely dispersed or clustered together in tight knows than they are on the mudonily generated maps most players are used to. Multiple cites right nest to each other can make for some interesting starting "capitals." When cites are more widely separated, air bases and carriers will become a more influential factor in the game.

Production Efficiencies and Specialtics

When pondering the production efficiencies and specialties of the cities you place on the map, tenember that you are trying to influence fixture production throughout the scenario das opposed to any sating set up of unids. Beginning with mary cities at terrible production efficiencies (such as in the Sca Lion scenario) makes a player's starting units externely important. It can also mean a long game if world domination is the goal

Limits on Improving the Global Economy During Game Play Another weakness of the computer's AI

DES

is that computer players do not play "the long game" when building up a low efficiency city. In other words, they will only a somewhere herveen 20% and 50%. Set somewhere herveen 20% and 50%. Set the 50% keed fast that point, further raising of the city's production efficiency to level drops from a high to a low priority. Similarly, most human players won't bother trying to nise a city's production difficiency must can try of the beat set of the time invested to take it.

Therefore, high production efficiency cities must be placed by you, the clesigner, while creating the map. If not, the game will have no "super cities." Now, if a poor world is your plan, then that is line. In practical, Empire Define terms, however, a rich world can be played into a poor one, but a poor world's economy will only tise, at bost, to mediotee.

The Philosophy of Starting Forces

A traditional game of Empire Deluce begins with no starting forces. Scenarios, however, can be anything their designers want them to be. For example, the WWII and Sea Lion scenarios both start with playest forces already dominating the map. In fact, some players begin with so map, in fact, some players begin with so many units (such as the Japanese in the WWII scenarios) that they see actually a diago or their global economy. The CGW Tournament scenario, or the other hand, for the control of the seasons expansion out from a single city, but includes a few starting forces for each player to get things moving along quickly.

Therefore, you must decide what the initial military situation is going to look like. How strong will each player's forces beging to overlay with the conomic landscape (i.e., will players begin with more chan one city! Players' starting forces are a key element in creating balanced, exciting situations.

Computer AI Considerations: Statting

If the first turn of the game is a crucial one, you will want to help computer players out. Here is the reason: Computer players will move units in the order that you placed them when designing the scenario on the first turn of the game. Therefore, if you know that it would obviously be better if a computer player sailed out of a port with armies on board the transport you have there, place the transport in the ciry fitst. If you don't, the armies may walk out of the city on the first turn before the transport takes its turn to move. Also, you will want the computer player to move its fighters first over an initially contested area, instead of its bombers

When we designed the CGW Tournent seems (e.g. help hyer's starting city had its "main shand" land units placed there first, then their transport, then their transport cargo infarry mate last. In the first turn, more some of frieir land units seroes the mainland while sending all of the others out to set on the transport. Thus, we have forced them into units of the grant port. Thus, we have forced them into units of the game. Observe three computer players playing it and you'll see what we mean.

Playtesting Your Scenarios After you have designed your new scenario, you are only halfway finished. Now begins the process of playtesting and hal-

- ancing your scenario. The purpose of playtesting is to find if the game is true to your design goals or not—and fun to play. Ask questions such as these:

 If you created a historical scenario,
- does it beat enough resemblance to history and have enough of the right feel to it to satisfy you?

 Does the same move at the right

- speed? When will players make "first contact" with each other?
- Should any players have forced handicape? Perhaps the production efficiencies of their nearby cities should be adjusted?
- Are the computer players getting off to good starts?

If two (or more) humans are supposed to play this scenario by modem, is it short enough to keep their phone bills down?

Playtesting Tips

The beginning game is creal for computer players. If they get off to a had start, they will probably never recover before they have to lock homes with a human player. Therefore, the best playersing you can do is on simply run the game with all computer players and just observe their all computer players and just observe their and provided they are the players of any noves. If you find something that needs to be changed, enter the gime edicately noves. If you find something that needs to be changed, enter the gime edistry, make the change, and players the sexuario again, Repeat this again until you are finally satisfied with the result.

- If computer players move their stating forces in the wrong order, that means that you placed them in the wrong order. If they don't expand properly, bast they with easier access or closer cities in the direction you want them to go first. You must get computer players off on the tight foot in yout scenario design. Of course, if your scenario is not de-
- Of course, if your scramatio is not dewill be larted to physics. While doscoing the AO play such scenarios might help out to adjust it, only when you play all you to adjust it, only when you play all your new closing can you really call it physicistics. While a few phone calls and your new closing can you really call it physicistics. While a few phone calls and creations from the other physics and consider all of their suggestions for improving the ecentric flying sages with any of their decign philosophy, early out those changes.
- As you have learned, there is a lot more on usking good scenarios than it just knowing what the keystrokes are for laying out the textural and their. They are of game the control of the section of the control of their control o





atmosphere of the period



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Impressions

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Man Of War

Grand Tactical Combat Under Sail, 1765-1815

bu M. Evan Brooks

The Age of Fighting Sall...and Netsone SimCars Man Of War (MOW) is the first computer game in almost the first computer game of warfar which, hitter though it was loss been comanicated in the eyes of 20th century gamers. While militarly hittorians debate the best general of history, opinion is virtually unanimous in naming Horatio Nelson as the beat raval leader.

MOW is a simulation of fleet level actions from the viewpoint of the commander. The subtitle accurately describes the ptoduct's scope—grand tactical.



The simulation covers the era in which Great Britain succeeded in establishing a Pax Britannica through the use of sea power against the French Royalist and, later, Napoleonic Navies. Admital Alfred Thayet Mahan's The Influence of Sea Power Upon History (1890) remains the classic text for the period. Also strongly recommended is Cross Sections: Man-of War by Stephen Biesty, a 32-page book of how a ship-of-the-line operated, at all levels. Aficionados of Fotester, Kent and O'Brien will still learn something from this work. For example, most people have heard that biscuits at sea were often infested with maggots. Cross Sections has the historical recipe to get rid of them (1. Place dead fish onto biscuit sack; 2. When magyots cover the fish, throw it away and replace it; 3. Repeat 1. and 2. until magents no longer appear).

The Admiral Has His Orders

The documentation, in keeping with SimCan traditions, is a sparse 13 pages. Three pages consist of scenarios and notes, and three pages consist of tables and a map. Actual play mechanics are covered in less than seven pages.

The game is composed of two sections—the steep phase and the battle itedf. The former is easily accomplished, but requires carried consideration, Onemust determine general guidance for his control of the composition of the conmunitation in again, when to open the Awiscaintinal will delineate different orders for the ships under his command; in a large feer action, frigates should not engage in general made a against the massive shipsof-the-line. Smillarly, smaller vessels such that the control of parties when the control of the con

Only after the communate determines proper groupings of wester and their general guidance should he commit to open battle. However, once contract is achieved, it is difficult for the fleet admit at direct the actions of individual ships. Orders can be given from the flags, the unit with the lack of radio, communications are limited to signal flags (which may or may not be obeyed, depending on the tactical situation and the ability of one's forces).

Oh, To See The Sea...

Along with SimCan's Red Slp At Morray ing (review on page 199). MOW is the first SimCan game to have graphics. They to be, At the end of each four-minute turn, one may view the action from two perspectives: a bird's-eye view with each ship represented by a "sixles" and letters, or a view from the flagship, often obscured by a "sixles" and letters,

The latter view is quite similar to Ralph Bosson's High Sear (1987). While somewhat interest-

ing, it is not very useful and quickly pales. The bird'seve view is the viewpoint that the player cannot live withous. One will issue orders'depending on the general situation depicted therein. However, the display is static; one cannot zoom in for a more detailed rendition of a particular section, and this presents a problem. While one can order a unit to move to a specific location, determining the proper coordinates can be difficult; therefore, one will usually order a course change based on bearing (direction) only.

As for sound support, there is none. Given the nature of the simulation, this is not important. However, for the user who demands intensive graphics and sound, MOW is not for them.

Manning The Rigging

One cannot directly move ships in the fleet. Orders are limited to "Follow Me" (the credo of the American Infantryl), "Conform to Flag," "Make/Reduce Sail," "Follow," "RallyPlansas" or "Set Course." Thus, once the setup phase is complete, buttle implementation is somewhat preordained.

As ships change course, they wear and tack. An intelligent commander ensures that crews of lesser quality avoid the latter maneuver, as it can result in losing headway and can lead to collisions.

It is down that the same it expects extraction of MOW has caused one consistent or at SimCan. The documentation constants in a SimCan. The documentation more that a single-sheet of disc cut counters, will be included in the initial reases. These were to assist the user in sease the constant in the con

Man Of War of MOW is crew quality. A



Man Cd Wer 240,00 158-2546Hz reconvended, VCAPCA graphics, 1MS had drive space 0.2 None 5.4ft Neeksarg, Sendelfern Canada P.O. Box 452, Snitgenories, Nevo Scoka, 84V 202 Snitgenories, Nevo Scoka, 84V 202 professional cuew is more than capable of overcoming even poot leadership. Generally, a professional crew can prevail at 3:1 odds. Historically, the British Navy was superior in seamanship to the French, and the user should react accordingly. More evenly matched battles can be fought between American and British forces.

The simulation comes with 24 scenarios ranging from moderately small (Cabrita Point [1801] or Lissa [1811]) to tremendous in scope (Trafalgat [1805]. the most studied naval engagement in history and The Glotious First (1794)). Plus, a versatile scenario editor allows one to cteate his own scenatios. Pull out the old boardgame copies of Frigute and Wooden Shins & Iron Men and have at it. (See the following article "Clearing For Custom Actions" for more details. -Ed.)

Victory conditions are determined by losses or exiting a map section. Although battles occur at sea, the battle arena is limited and the "edge of the world" syndrome applies. The edge can be either land or shoals (injurious to one's health). or simply exit areas whereby ships cannot re-engage in the battle. Why a moving ocean teplenishment map was not emploved is unknown, and often somewhat artificial maneuvers are requited to avoid "falling off the edge

MOW is a serious simulation. As the designer notes, popular perceptions have been strongly influenced by novels, motion pictures, and often surprisingly inaccurate secondary and ternary popular history." The simulation attempts to give the player only those options available to the commander of the fleet, and not the ability to jump command levels and portray everything from sailing master to fleet admiral.

Control of	7	4	-
		70	
war 500 l	_	L 1	

While this presents an ostensibly accurate simulation, it does not present an entertaining game. A gamer with visions of Gregory Peck and Vitginia Mayo ("Horatio Homblower") or Alexander Kent's Richard Bolitho ("Fire on the up-roll, Lieutenant Hetricki") will be sorely disappointed. I do admit to a sense of such disappointment; while Editor Johnny Wilson loved the flavor of MOW. I missed the individuality of Broadsides (1983) whereby one could literally load the cannons (chainshot, grape or ball) and even conduct boarding parties (admittedly a rare occurrence, as aprly noted by MOW designer Steven Newburg).

The Sun Sets On The Engagement

MOW is for the serious student of Fighting Sail. The flexible scenario editot allows one to create additional scenatios, and the provided scenarios include the major fleet engagements of the period. However, the use of Fighting Instructions or the Nelson Touch is not really pottraved. British naval strategy had been ossified into a series of fixed orders which every British officer was expected to obey. The fact that such instructions tarely resulted in a decisive action was considered by the British Admiralty to be the fault of the officers on the spot (as a result of one such failure, they executed Admiral Byng to encourage the others"). Nelson's genius was to recognize the failings of the doctrine and to encourage initiative based on the superiority of British seamanship. MOW does not really show the evolution of naval leadership in these racties.

In conclusion, MOW is a simulation of limited appeal. While aficionados of the topic may want to have it to add to their collection, they should know that its short-term interest may not lend itself to long-term enjoyment. cow



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Simple Scenarios For SimCan's Man Of War

by Johnny L. Wilson

Ithough Man Of War's lack of a campaign game means that player-admirals and -commodores do not get the thrill of the longterm chase, the "Build Your Own Scenario" feature makes it possible to plan and fight battles at will. This article will use two very simple actions to walk the gamer through the construction process.

Bay of Bengal (April 4, 1760)

In this relatively obscure action from the Seven Years War, a British escort encountered a French squadron that was trying to disrupt a convoy from Lisbon which the British were protecting. The British managed to fight off the French but the escort ships were heavily damaged in the process. The British were heavily outgunned in this action, but as in most MOW scenarios, they should win because of the higher ratings for crew quality.



The British and the French square off in the Bay of Bennal scenario.

First, the player-designer establishes that there are two squadrons using the MOWmenu system. Then, the player sets the wind as Brick and the direction as NW. Storm conditions are not in effect. This would normally be followed by delineating the status (Land, Shoal or Water) of the map edges. Since this is an open water engagement, one need not bother with this step.

News, one enters the forces for each

squadron. In this case, since this is an earlier engagement than those included in the MOW database, one may substitute any French 36-gun frigute for the Ma-licieuse and any French 32-gunner for the Orale, as well as any 24-gun frigate for the Flamborough and any 20-gunner for the Bideford on the British side. Fortunately, the editor lets one name the ships for each scenario. The French squadron should be set for Average crew quality and the British squadron for Excellent quality.

Then, one sets the initial position and heading (put the French squadron slightly north of the British one, near or for away according to personal taste, and headed for certain interception). Then, it's time to set the doctrines as in the actual game and clear for action.

Battle of Porto Prava (April 16, 1781)

This battle from the Napoleonic era is telatively simple to set up. The scenario takes place in the Cape Verde Islands off the coast of West Africa where the British. anchored in Porto Praya, were caught off-guard by Suffren's French squadron. Though the British were taken aback by Suffren (he wasn't supposed to be in the area), they were still able to make it out of harbor and meet him in the open sea. One can set up the scenario to reflect the proximiry to the islands by setting the northern screen-edge as Land. This is optional and represents the harbor of Porto Praya, but is not necessary. The crew quality should be only slightly in the British favor with the French at Poor and the British at Average. The wind is, once again, blowing from the NW and Brisk with no storm conditions.

Set the French on the west edge of the man and the British squadron to the cast. This provides for plenty of sea room in setting up the engagement. British ships

include the: Hero (74), Manmouth (64), Ronney (50 gun frigate), Jupiter (50) and Iris (50). The French ships include: Heros (74 gun frigate), Hannibal (64), Artisan (64), Sphinx (64) and Venguer (64).

The scenario should be fairly well-balunced. Though the British flotilla took some serious damage, they managed to fight well enough to drive off the French and recaptute a ship or two, but no ships are reported as having been sunk. The British expedition aborted their mission and returned home, while Suffren moved on to a successful campaign in the Indian Ocean.

After Action Report

The scenario builder for Man Of War is fast and efficient. The lack of a real map builder means that it is impossible to set up satisfying cutting-out expeditions or fireship missions, but the game is definitely suited for establishing simple or complex missions in the open sea. The ability to designate map edges as Land or Shool is useful, but does not give the gamer the tactical satisfaction of deliberarely forcing an opponent through the gauntlet of shoals, or to take the wind gauge while an opponent is leeward of the coast. Nevertheless, the scenario builder is useful for most actions and will add hours of play value to would-be admirals and commodores, cow



Porto Prava.

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An Expanding Empire

New World's New Worlds for Empire Deluxe

by Mark "Skulker" Carroll with Alan Emrich

sollowing on the heels of their Empire Deluxe and Empire Deluxe for Windows, New World and White Wolf Productions have produced an addon disk boasting over 40 new scenarios to challenge the Empire buff. Designers Mark Baldwin and Bob Rakosky contributed their own scenario designs and enlisted contributions from various same designers, play testers, and other industry notables. With a cast of "celebrity" designers behind it, this disk offers more than just new worlds to conquer: it can also be seen as a set of lessons to teach scenario design principles

Contributing to Empire Deluce: Scenar-ies are such gaming dignitaries as noted board wargame designer Jim Dunnigan, science fiction author Jerry Poumelle. Trevor Sprenson of Interstel's Star Fleet series. Will Wright of Sim City fame. Gordon Walton and Don Gilman of Harpson, and CGW's own Johnny Wilson, among others.

History in the Playing

There are 37 scenarios included on the disk, several of which have multiple versions for increasing numbers of players. The scenarios range from fairly normal. to historical, to outright bizarre. The historical scenarios, contributed primarily by Steve Barker and Mark Clouset, feature gorgeous real world settings for the American Civil War, the Bolshevik Revolurion, WWII's Pacific Theatre, Ancient Rome, and several global conflicts, Emphasis in the scenarios runs from extreme naval to extreme land actions, and from single play to humans-only multi-player games. A number of special rules have been suggested for some of the games to give them character and add a good deal of gaming spice.



Empire as Chess?

The most visually striking of the scenar-ios is Mark Baldwin's "Chess" which comes in two and four-player versions. It is played on a checkerboard map of alternatine land and sea squares with only one city to a side. Each side starts with two lines of units along an edge of the board. This particular game is a fascinating exercise in unit conservation as there is little hope of reinforcements during the game.

The most bizarre scenario included is "Vortex" by CGW editor, Johnny Wilson. The map is composed of one long, thin soital of land with cities dotting the land mass. As the players move toward the centet of the spiral, the game becomes a logistical nightmare requiring some creative strategies.



reflects the author's state of more

One of lim Dunnigan's contributions, "Red World," is a game for a single human player against five computer opponents within a science fiction motif. The map is solitary worlds (cities) in a space (ocean). Once the human player reaches a certain level of cities captured or battleships sunk, the computer player levels are enhanced to keep the game from ending too soon Bob Rakosky's "Win or Draw" scenario

is ideal for modern play. On a map of three continents, each player starts with only two transports and cannot build more. The game ends in a draw if all the tranports are sunk and each player has one continent to himself. It becomes a touchy game of cat

and mouse with each player trying to protect his transports and expand, while committing resources to sink the enemy's transports. leny Pournelle has produced a real slugfest in his "Naval Duct," The two play-



Jerry Pournelle's island scenario sets the

ers start out with both large initial forces and a large city count. The huge map has several main islands and huge expanses of sca. A few neutral cities are included to give the edge to a clever player.

Extra Extras

The scenario disk also comes with two programs, EMPSTATS and EMPSTATW. These are the DOS and Windows (respectively) versions of the same program. When given the name of a scenario or map file, they will print out statistics on the percentages of terrain types, and for scenarios includes the number and types of each sides' starting units. The look is quite spartan, but these programs are useful when designing scenarios, giving a quick overview of the design.

Another included utility is RANDMAP and RANDMAPW (again, the DOS and Windows version). Its purpose is to pick a random map file for a game, much like the original Empiredid. With all the maps to the scenarios thoughtfully included on the disk, players will certainly have plenty to choose from. Finally, Empire Deluxe Scenarios in-

cludes the latest, greatest version of program, Version 3.11, which fixes minor bugs. All told, Empire Delieve fans, especially those into scenario design, will find a lot of value in this single, "star-studded" disk. row

Empire Deluxe Scenarios



Original Grapus Delawe gome What Wolf Production

My son and I love this game!!!

Great work!! About Same Served



My drughter (11 years ald) and I have become "Oxyd" I enjoy this pame a great deal and so do my children as

addicts. We cannot wait to begin exploring the many other levels. Thanks for creating such an excellent graduct. P. S. Servicetore This is, without assestion, the most impressive game I have ever seen. I am amazed at the audio, visual and

Outstanding sengratelIII John Bersoner, Los Enter

ortists. Seams I. Toety Advance Reports

Wood That's all I can say about Oxyd, What an incredible game! Harry! I con't wait to play!!

This name is highly addictive, Sover Bobie Condu

One of the nicest names I have seen in a long time. Thanks for creating such a challenging piece of software.

For correlately hashad Possis & South WE

Stree Francis Canada

The come is a blast! Excellent aroshics, extremely well date, Interesting challenges in each landscape also, I look forward to the next 90 landscapes, Gold Novella, CT

The game is really slick, well designed. Those first 10 levels alone were worth paving for! One of the most alexant parses I've played. Thanks a lot

for a great agree, Julius Jordahi, San Glass OK so we got hooked!

their friends. It is just what I have been looking for II Arrone Wastall, Minnespels My whole family enjoyed your game a great deal.

Oxyd has to be the most artistically superb piece of programming that I have seen from my position of having consoleted about one third of the single-player levels the landscopes have been continuously varied with a marvelous attention to graphic and auchide detail that makes each new one a continuing delight. I essecially appreciate have the marble interacts in seeminaly realistic but different ways when ralling over or bouncing against different "natural" for annaturall substances like stone wood swoms, freefall etc. At this point, I'm already warrying that I'll run out of levels (assuming I keep solving the auzzles), Jeffrey R. Narrow

Even our 3vr old enjoys the game.

Michael C Moses Columbia

I just had to write to tell you how much for I've had aloving 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 loadscapes challeng ing 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 invensity Ten Harris Portland

It is core to find such a visually appeading additive and playtible office. Keleve What destroke

I'm really impressed with your passe, Oxyd, Caparatulafices on a unique and fun aradust, and best luck to you call. John M. Dadd, Namoud Oaks

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Even The Aide Could Use A Hand

The Designer Speaks On Aide de Camp

by Scott Hamilton, President of HPS Simulations

squares

Score Hamilton's Nide de Camp has been colled hy 'Holy Grain of Compater Wenguering' by it most endousants were. It is not a goote, has not a goote, he most a goote, he most a goote, he most a goote, he most a soul for nachung gootes. With it, hourd sousqueers are morpourers therefusivitie hourd gootes or design original genera, and play there was e-mail with surgranting friends. In this short article, Scott offers some rate for the humanus delivere.

There is a truism among board and computer watgame design. 'The before the shrink wrap has hit rhe floor, most hard core guners will find elements of a design that they could have done better if given the chance. 'Ade if Camp gives garnet just this chance—the chance to put their design talents where their to put their design telents where their

Practically everything about a final Aide de Camp (ADC) game is determined by the user: how it looks, how it plays, and how detailed it is. In effect, the user decides where to go, and ADC provides the power and Hexibility to get there.

Because the user is responsible for so many elements of the design, careful planning is sential. Sometimes knowing even a few "tricks" can be a teal time savet. From the experience of users so far, I've been able to compile a list of often-heard suggestions.

Start Small Everybody tells me this! Bosin with a

small game, or even a small portion of a map to get the hang of ADC before investing time in a larger game. In particular, experiment with different zoom level settings and secondary tertain symbols.

Plan Ahead

For games of any size, write down all of the accessary tertain and unit symbols beforthand. Decide what color they will be and what they will look like. Decide which unit and class values will be stored and what modifications they may need. If the values don't fit or don't display well, consider making "chits" or "markets" to so in the hex with the units. Above all. planning should be aimed at keeping things as simple as possible.

Check The Map

Look over the entire map before placing tetrain. Make sure it's the right size and the mapshets line up properly. If not, delete the map and start over.

Save Often

Save may and game sess offen to minimire potential data loss. A good idea is to use a different name each time a set is saved. That way, if a mistake is made, a fire saved persons to the error cancer a life saved persons to the error cancer a life saved persons to the error cancer a life saved person a permiane, clear out the unwanted bade up file as the end of each session. Now the same-save focuse creates a badeap file by overwriting the existing sator-save file.

Set Zoom Levels Appropriately Redefining zoom levels for a same can

be a real time waster. A little forethough can save many headaches. Normally, Zoom 1 should show the entire map, Zoom 2 should show enough bexes so that any unit can move its full movemene allowance without secolling, and Zoom 3 should show combar in detail.

Delay Unnecessary Map Entry

If portions of the map are not going to be used at the beginning of the game, leave them blank to save time. Maps and symbols can be changed at any time, so when the map portions are needed for later game play, they can be added.

Keep Contrasts Between Units And Terrain

Try to keep a colot contrast between unitst and testian so that the units show up at a glance. For example, use darker colors for units and lighter colors for terrain. If this is not possible, try to make a border of an opposite color atound the unit symbol. For example, place a dark border around a light colored unit, and vice-versa.

The success that ADC is achieving is

very much due to customer feedback and support. Every improvement I've made since the introduction of version 1.0 has been the testud of player suggestions. The single biggest change I've made was the addition of an optional hex grid overlay. This change didn't affect any of the game mechanics, but allowed ADC maps to look like the familiar bease instead of

Fot the "monstet gamera" who use and SPI's Europe and SPI's Roar In Europe, 1 makes even and SPI's Roar In Europe, 1 makes even incremed from 200 to 250, and up to 12 units per less are displayed at the bottom series of the se

The cuttent version of ADC (1.14) includes all of these additions and mote. Since I believe in supporting my customers the way they have supported me, I am offering this upgrade free to registered ADC users. All I ask is that they send me a blank, formatted, high density disk and a self-addressed stamped return envelope.

Version 2.0 is planned for next year. This upgrade will include a number of significant changes over version 1.14. My standard upgrade policy will hold for that version, which will be made available to registeted users for \$10-\$15.

I've also begun an ADC Opponent's Wanted database. Each gamet registering with this service receives a list of others looking to play the same or similar games. The list will be updated and printed every four months. Each customer will receive an initial copy of the list for free.

Scott Hamilton may be reached by phone at (408) 554-8381 or by e-mail on GEnic (S. Hamilton), Prodigy (KFH808B) or NVN (SHAMILTON), He is a strong believer in product support.

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A Preview of Aces Over Europe from Dynamix

by Bryan A. Walker

An avid computer game and fleght sim fan, she author is also an AH-64 Apache pilot and Armaneau Officer for the U.S. Army. A combin vestran of Desert Storm, he's currently stationed as Fort Campbell, Kentucky.

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Of the computer game companies that have could all of the configurate game companies that have could all a Dyraumic. Fans of their Rod Rose to and Aene of the Ruffley (AGTP) and the Rod Rose for ward to climbing into the cockpit of Aen Dward Lower and the companies of the Companies of the Companies of the Companies and attention to detail that is effect tradermals. Pursum chasset in eights on their traderials, Pursum chasset in eights on the traderials. Pursum chasset in eights on growing the companies of the C

Like many new simulators. Acs Over Europe has had rumous swifting around its development like vapor trails off of wingtips. The truth is there will not be modern support or a "Padlock" view resembling the one in Fadews 3.0. During discussions with Tucker Hatfield, Quality Engineer at Dynamis, I

learned that these features were considered, but judged too unwidely for the curront game system. While I was disappointed, but games obtained the games obtained the games of the games to the games the games that games the games to the games the games to the games to the games the games to the games the games to the games the

AOTP will find many familiar features, while being pleasantly challenged by noteworthy improvements. With a few mouse clicks, new missions, planes, weapons, graphos, flight models and other features will start showing the game's new musels.

Shiny New Toys

Of course, a major attraction of any flight simulator is the number of new tops for the player to enjoy. Aus Ower Europe's wine list has plenny of vintege, sporting 30 different account; 14 ground whites and 13 drips. The account 14 ground whites and 13 drips. The Mosquitoes and Me 109s, three different Focks-Wulf 190s, and the Me 262 let are all writing for the player to climb in The B-17, 2-35, 26, Arado 2-34B "Blut" for bomber, and packs are also represented and make appear-

Perhaps the most impressive new feature in Acer Over Europe is what Oynamix calls the Tall Resolution Mode. With twice the vertical pixels of normal 320x200 VGA, the "Tall" mode looks great! The planes are now sharper and more detailed than those of Red Barmon or AOTP. In addition, the Tall mode helps the player discern what maneuves rise enemy aircraft are performing from a greater distance—a big plus in a doglight. Switching between both resolutions provides a very clear example of how much better the Tall graphics



are in comparison to normal VGA. And, to the relief of technophobes who cringe when a new gimmick promises to crash a game every 30 seconds, the Tall resolution code seems quite stable, even in my best-rest ver-

As impressive as the Tall resolution would be by itself. Ans Owr Europe also introduces gtadient shading to the aircraft models. Combine these two festures, and players are going to be reacted to possibly the best-looking Warbird models ever seen in a PC flight sim. The extra power has made it possible to clearly tender multi-color camoutlase, invo-



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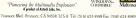
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sion stripes, and even individual squadron markings on the aircraft. The sharp detail on the bombers is particularly impressive, and provides great suspension of disbelled as the object salabes through their formations. Without question, the aircraft models of Jetro Over Europe are a new standard in excellence.

The Good Fight

Remembering the criticism AOTP initially received for its slow frame rate, Dynamis ricid to keep the speed of Act Over Europes and jud as possible while including the new features gament wanted to see. Benchestering between AOTP and the beat version of Act Owe Europe certainly bode well for the eager between AOTP and the beat version of Act Owe Europe certainly bode well for the eager light-aim public. Despite the fatte that my beat-sets copy still had some "rough" code procession, the game plays just as unsoughly at AOTP with the 1946 uppeal. The sexual relates version may well run as and faster.



The huge formations of heavy American bombers spew out a hailstorm of defensive fire, occasionally vaporizing attacking fighters in a single pass!

Another criticism leveled at AOTP was the one size fits all" flight models that took away from each plane's own character. The flight envelopes and aerodynamics of Ares Over Farmer have received some tweaking and are now noticeably more realistic than those of AOTP. The realism of external stores, flans and landing gear have also been improved dramatically. A significant new feature is the addition of buffeting and spins, which were a deadly bazard to the pilots of real Warbirds. The flight model improvements are certainly more realistic, but still lack some of the nasties traits characteristic of the high-strung fighter aircraft of that era. The takeoff and climb characteristics are still overly generous, with even fully-louded P-47s becoming airborne after rolling perhaps 200 feet! While Aces Over Europe's flight models don't approach SVGA Air Warrior's level of realism, they stand well above those of AOTP

New-and-improved missions successfully convey the flavor of the European air war. **Interdiction** and **Conshow** mission**
challenge the player of destroy key facilities such as bridges, rail beads, V.1 knuch rails such as bridges, rail beads, V.1 knuch rails missions may find the player attacking a column of panters while trying to avoid Me-2GA, and interest ground line. The **Odd** ing new Aces to tangle with A major fas in Arn Oter Empoy has made the **Carriera overless much more exciting lineared of trying covered and the content of the cont

Aces Over Europe also showcases new weapons and attack options. From the tactic of "Skip Bombing" to the tricky German GM21 rockets and new cannon pods, there's plenty of new spice in Acrs Over Europe's gunnery stew. In addition, Aces Over Europe gives the player the ability to send his comrades after targers that didn't appear on the mission brief, which was impossible in AOTP, Still, the wingmen are tentative in the ground-atrack missions, leaving the player to do nearly all of the work. While doing that ground-attack work, veserans of AOTP are going to find Aces Over Europe's heavier and more accurate pround fire aggressively "stitching up" their planes. The familiar exploding flak is now much more destructive and definitely adds to

range strike

Attacking bombers in Acea Own Emerge can also be a harrowing experience. The impressive formations of heavy American bombers you can a halitam of defensive fire, occasionally suporizing attacking fighters in a singel, wide-syed pilot hurting through the air in a reared position and oppinging revised control stoke cans to matter the proper of the control of the control of the control of the bombers' defensive pans would be reduced in the relative part of the property of the property of the property of the property of the control of the part of the property of the control of the part of the property of the prop

the "white knuckle" factor!

The Campaigns and Historic Missions of Acto Over Europe will again feel familiar to vecenans of Red Roma and AOTI? The Historic missions are well-researched, providing 28 different aeral abernatures of varying difficulty. The campaigns offer a wide variety of challenges while again fathiath on the challenges while again fathiath on the challenge while again fathiath or the properties of properties p

Many other sharp refinements will come to light as players explore Aces Over Europe: an improved briefing/inflight map, new flight recorder functions, and controller options that include CH Flightstick Pro and note-book adapter support. Plots who find them-

selves "out of airspeed, altitude and ideas" will be thankful for the ability to now bail out at any time. The animated sequences are particularly well done, resembling old WWII lifn footage. Personally, my favorite new bit of chrome was the small explosions that now appear when a plante takes a hit.

Not Necessarily the News

One of the few disapposiments Anse Deve Langer may how in more is the relatively English and the control of the control of the of the gents is physically much larger than AOTFA, but virtually identical. Compared to the terrois models of Sorbie Compared to the terrois models of Sorbie Compared to the terrois models of Sorbie Compared to the Compared to the Compared to Europe's terrois marker in an extension of the english of the Compared to the Compared to Europe's terrois actual marker in an extension of terroising than a punting green. Of coorestered in the Compared to the Compared to terroising than a punting green. Of coorestered in the Compared to the Compared to the terroising than a punting green. Of coorestered in the Compared to the Compared to the terroising than a punting green. Of coorestered in the Compared to the terroising the Compared to the Compared to the Compared to the terroising the Compared to the Compared to the Compared to the terroising the Compared to the Compared to the Compared to the terroising the Compared to the Comp



Nov. and Many Modern

Along with a terrain model mired in yesterday's technology, the sound effects have also failed to challenge the state of the art. In fact, like the terrain, they seemed to have been simply ported over from AOTP with little noticeable improvement. With the heartstopping digitized effects of games like SVGA Air Warrisor on the market, the sounds of Ace Oper Livose seem timid by comparison.

Off We Go ...

Ans Over Europe is not a revolutionary game. Taking a proven concept and engine. Dynamic has abilitally woven normal insports. The province province and engine of the province game insteat. The successful formulas of Real Berns and AGT Der succeeding formulas of Real Berns and AGT Der succeeding for the overall field of the engine of the province game in the controlled province and the province of the province

The author can be reached for further comment on America Online at WALKER34. EGM

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Art Thou A Worthy Opponent?

SSG's Warlords II Will Cripple The Weak And III-Prepared

by Ed Dille

"In the nervinal of fewared multivaluels and races, during the constantly-recurring Struggle for Existence, we see a powerful and over acting form of -Charles Darwin

* Though fraud in all other actions be odlous, yet be praised as he who overcomes them by fower.

-Niccolo Machiavelli

Tere these two great minds alive today, it is likely that they would ap preciate how well Warlords II illustrates their points. In this latest offering from Australia's SSG, none but the fittest may survive, and inferior positions are only winnable with great strategic acumen

Warlords II returns us to the moral state of the Dark Ages, where kingdoms were built on the backs of the peasantry and survived only through expansionism. Players who wish to survive in this environment must shed all civilized inhibitions and take to heart Dille's first axiom of combat: the prestest happiness is to scatter thine enemies and drive them before you, to rare their cities, poison their crops, and slaughter the innocent...all vicariously, of course.

The fictional background for Warlands II is brief but sufficient. After a long and bloody war, the land of Illuria entered a blessed reign of peace. While this condition was popular amonest the masses, the assembled Warlords who had created the peace grew bored and restless. As the saying goes, idle hands are the Devil's playthings. Realizing that trouble would soon erant unless the warriors could be provided an outlet, the Sages of the land gathered to cast a mighty spell. Once wrought, all the heroes and other unemployed military units were plucked from the nd and dumped, en mene, in the new world of Etheria. Etheria is ripe for conquest, with

three set piece campaigns and a random world builder, such that the most voracious appetites for conquest should be sited

Warlards II is an eight player game of conquest. As in Empire and other games of this ilk, diplomacy is only a tool to allow one to choose the time and place of the ensuing war. There is no victory short of total victory but, as Hitler and many other would-be world conquerors learned, it is best not to support too many fronts at

once. Less than cight players may be used. though it detracts from the complexity

to do so, and any combination of the total may be human controlled Computer players have three selectable skill set-Warlord None of the

tings: Knight, Lord and

computer opponents are passies. Instead, the chief difference between them is the degree of aggressiveness displayed toward expansionism. Knights are the most conservative, preferring to consolidate their holdings with strong defenses before venturing further. Lords are a little more opportunistic, willing to take a risk now and then to capitalize on an opponent's weakness. Warlords are naturally the fiercest opponents, attempting to drive you before them with well balanced stacks of units while jealously guarding those assets already won with the blood of their

Internal examination of the program reyeals that the Al routines for each skill level are identical, but Knights and Lords are handicanned by special logic constraints. They are forced into more passive play by restrictions on the offensive options open to them and the number and types of units they may build. By opting for this approach, in lieu of designing three separate Al routines, SSG was able to devote more energy to making the Warlord opponents as cunning and nubless as possible

Full campaigns begin with 80 cities on the mup, 72 of which are neutral and must be brought under control. Neutral cities never undertake offensive operations, so the player need not be concerned with strong defenses of new cities during the initial phase of

the game. Succumb to the land rush

WAYN THE RAM VEA ecobers SME had



mentality and grab as much territory as possible before coming in consect with the other Warlords. Remain at peace with them for as long as possible while consolidating one's position after the initial expansion (more on that later). Alternately, players may opt for a quick start, which divides the neutral cities evenly amongst the sides prior to the start of the game. In practice, one generally receives less cities starting with this option, but they are more defensible once other Warlords begin to eye your territory greedily. Finally, for those who don't have the days necessary to do a full campaign, shorter scenarios with 40, or even 20 cities are possible.

Ambassadors From Abroad

Diplomacy is an essential component of the new system. A single display provides the current state of affairs between all the kingdoms. By referring to it frequently, the player can keep track of which nations are occupied elsewhere in conflict, as well as those who are presumably building up in a period of peace. As mentioned earlier, it is best to minimize the number of enemies one has at any given time. By keeping one's ambition in check, for the time being at least, it is possible to mass decisive force on one or two of the apposing Warlords at a time. In military terms, this is known as defeat in detail.

Three states of diplomacy exist: peace, limited war and total war. All sides initially begin at peace with one another, with one exception. If the player begins the game with the "I am the Greatest" option, then all the opposing computer players will come after him with a vengeance. Limited war is an agreement to allow armies to fight each other in the field, but cities are considered sucrosanet. Total war is inevitable if one wishes to win the game, but again, one should not rush headlong into this state of diplomacy (or lack

The initial period of peace allows one to build a military and economic base for the ensuing conflict. Defeat and occupy as many neutral cities as possible. Invest in the unit

types which may be produced by each city until there are at least three. With the potential to build three or more unit types, city walls will provide a defensive bonus of two instead of one. Players of the original Warlords will remember than over time, it was possible to build city fortifications to a level of nine, which made them virtually impenetrable. Warlands II does not allow this. Two is the maximum defensive bonus of city walls.

but several new and unique unit types more than make up for this difference.

the game, the player has two options. First, garrison the border with at least three units in each city and expand in a different direction. Or second, focus on him in lieu of the neutrals to attempt to eliminate him from the game before he can become very powerful. If one chooses the latter option, the outbreak of hostilities may take one of two forms. The diplomatically correct way is to move units into position, then declare war on the diolomacy screen just prior to ending the turn. This gives the opponent a small warning of what is coming, but it preserves one's status as a fair player with the other opponents. The alternative is to strike without warning, conducting surprise attacks accompanied by treachery messages for the world to see. This may yield an immediate sacrical advantage. but it may also prompt other leaders to become more hostile based upon that act alone.

The Military Advisor

When one is positioned next to an enemy, a sword icon appears to prompt the attack. By holding down the shift key, this icon changes to a question mark. Clicking on the mouse then brings up the Military Advisor screen. The

advisor is important for several reasons. First, his advice is usually accurate unless one has the "intense combat" option enabled. Intense combat can even out the disparity between inferior and superior forces, allowing the former to win on occasion. Also, the advisor is important because of the manner in which unit stacks are presented.

The most powerful unit in a stack is always displayed as the map icon. A staff which accompanies the unit changes to reflect the number of units in the stack. The banner on the staff becomes larger and longer as units are added (eight is the max per stack) and a second smaller banner appears below the first when the number of units exceeds four. What is important to understand from this is that looks can be deceiving. A fierce Demon unit with a double banner may be accompanied by other powerful units, such as Griffins, Giant Spiders and Minotaurs, or it may be the only strong unit in the stack. carried along by several units of Scours with an Orcish Mob or two. The only way to tell the difference is to use the Military Advisor function

The same logic applies when approaching cities. Each city is divided into four quadrants, which makes it capable of holding up to 32 units. It doesn't matter which wall is attacked, all the units in the city must be dealt When an opponent is encountered early in with to capture it. The presence of certain units in the city, some of which may not appear visually, can negate honuses in the attacking stack and vice versa. The next section will discuss these new effects but, for now, the important thing to remember is to use the Military Advisor profusely when plan-

> The types of comments one obtains from him range from "this battle should be as easy as butchering sleeping cattle" to "an attack here would be utter sucude." Between these two extremes are several other recommendations that reflect an even march and slight advantages by either side. Players must use their judement as to how hard the attack should be pressed.

When a city is conquered, the player may either occupy, pillage, sack or mze it. Occupation treats it like all other player cities and retains whichever units were already being built therein. Pillaging eliminates the ability to build the most powerful unit in that city in return for an immediate cash benefit. Sucking destroys all production except the least powerful unit type, but yields the most cash





ally not a good choice if one is planning on keeping the city unless it is necessitated by a quest (see below) or the player is very cash none.

Razine is the adoption of General William T. Sherman's scorched earth policy. In essence, the city is burnt to the ground and cannot be rebuilt. The player derives no money from raxing a city, but there is a way to do it that is not explained in the manual. If one's intention is to raze the city anyway, don't do so when it is first captured. Instead, sack it for all it is worth and then move on. Prior to ending the turn, however, return to that city with the pointer and then raze it. This is an effective tactic when one is raiding behind enemy lines and cannot defend the cities from being recaptuted the next turn. In essence, it fills one's coffers and denies resources to the enemy.

Rank And File

The expanded bestiary of Warlords II enbances the ractical model very picely. Cities are initially capable of building 1-4 unit types. but the player may invest in new unit types as funds become available. Players must pay 10-1500 gold pieces to give a city the capacity to build a certain unit. Each unit type has a base combat and movement value, a set production time which ranges from 1-4 turns, and may have other movement or combat bonuses. Successful players will learn this system inside and out, such that they construct offensive and defensive stacks of mutually supporting units. Given that, let's examine some units and illustrate advantageous methods of employment.

Spiders are extremely effective units for defending cities. They cost 1000 gold to establish, but they have a two turn build time, a base combut value of 5 and a +2 combat bonus if defending a city bex. Given that, a spider supported by 2 or 3 expendible light units in a city with +2 defermie walls or withstand all but concerted renewy attacks. As units on the control of the control of the withstand all but concerted renewy attacks. As put as work producing spiders to vector to all new computers for outset defense.

Giant Bats are the best reconnaissance

units. They are cheap to establish (30) gold), which makes them a perfect choice is increase cities from two to three unit production, and they are built in one turn. Their base move value of 16 is the same as that of Scouts, but they suffer no termin disadvantages to movement. Build several Base carly in the game and use them to uncover the map (which is hidden at higher levels) in advance of the conquering armise.

The most powerful units that may be built directly, instead of acquired through special actions (see the next section), are Pegasi,

Griffins, Unicorns and Elephants, Pegasi may move 20 spaces without terrain restrictions. have a combat value of 5 and provide a +1 combat bonus to all units in their stack. Griffins have the same movement value, a combatrating of 6, but have a +2 individual bonus when attacking cities. This makes Griffins an excellent choice to conduct interdiction operations deep in enemy territory. Unicorns do not move as fast as Pegasi and are subject to terrain restrictions as well, but their unmodified combat value is 7 and they have the same +1 bonus for stacked units. Elephants are a particularly nice addition, and not only because I happen to be a big fan of Hannibal's campaigns. They have a base combat value of 8, but more importantly, the presence of an elephant in an attacking stack reduces the combat value of every enemy unit in the battle by one point.

What Is Thy Ouest?

As was mentioned, there are several other units which may only be gained through special action. Everyone begins with one the caffers of the langibon are fall. Heroes here veriable combat and more values which may increase as the gained particular the particular of the particular o

Powerful monsers inhabit the runis one discovers. By defeating them in single combat, the player may obtain a cash bounty or one of the aforementioned special icens or combat units. The types of special units include. Weards, Giaru Wyrms, Undend, Demons, Elementals, Devils, Archons and Dragons. The presence of any of these units in a sack adds a +1 combat value to all units with the exception of Dragons, which com-

vey a +2 bonus. Special units are the most powerful in the game, so it is necessary to divert one's Heroes away from the buttle to accomplish these explorations.

Temples are inhabited by non-secular priesa who may either bless the Hero and his to about the location of events items or allies, or coffer a quest. Quests might could be recovery of a specific tem, destruction of paticular city or even a crussde, when on must sack a certain amount of gold from the opponents. The successful completion of a quest results in the temple becoving each group and the proposed approximation of t

In The Heat Of Battle All battles in the same are decisive, continu-

ing until only one group remains. The entire campaign may also continue as such, but if one becomes too powerful, the other sides may sue for peace. The player may opt to accept or continue on. Either way, by the time a full-scale campaign is completed, as much as 15-20 hours will have passed. Herein lies the single complaint I have about the game. Once victorious, one receives a brief fanfare and a single graphic image depicting the arrival of peace. Sorry gang, it was great getting there but the payoff could be a little more rewarding. If there is a Warlords III (one hopes so), some of the expanded eraphics and sound capability might be used to jazz it up a bit.

Grunbling aside, every other aspect of Warland II is worthy of respect and admintion. The digitized sound routines are hanted to the control of the control of the concled very nicely and the All engine is surely one of the fines on the market. Even if one is highly shilled strengist and carectain, the garn to going to win now and then. As in the garn to going to win now and then. As in the call words, anything, can happen to disrupt time with the rhythus of lower drums, and as in bactle is more plantable than a sledy in the park, true jiston the Warland II arena and be humbled. Tow



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Prepare Thyself For Warlords II

by Robert L. Hayes, Ir.

this two-part strategy guide to SSG's Warlands II begins with an overview of the production of military units and the uses for each unit. Next month, we'll cover combat, grand straregy, and useful tips and

The Best Creature For The Job

The individual units in Warlords II can all be used for the same purposes: attack, defense or exploration. However, most units have special powers or characteristics that make them for more useful for certain tasks than others. The successful Warlord will be the one who makes sure his or her armies are performing the jobs for which they are best suited. Each city has a selection of unit types avail-

able for production. Additional unit types can be added to existing cities by spending gold; when so buy new unit types and when to simply concentrate on producing what you can is one of the decisions that separates world conquerors from dogmeat. In general, purchase units when you can, but don't bankrupt yourself in doing so. Heroes that approach you during the game should always be bought, but generally each hero will want 1000 gold or more: try and maintain between 1000 and 1500 gold in your treasury at all times. Addirional funds should be used to purchase new unit types at cities that are appropriately lo-

Table 1 provides several categories of useful information on the various units. The first few



columns will be familiar to anyone who has tion, a two-point difference in movement played the game; they cover the same basic unit data provided in the rulebook. Number of units produced per turn is self-explanarory: this value provides a basis upon which to compare the strength added per unit of rime.

Strength per turn indicates how many strength points the production of a given unit will add to your army in a given period of time. Of course, not all strength points are created equal: Eight one-point Scouts are not the equivalent of one eight-point Archon. However, these numbers can be compared to a certain extent. Special strength per turn refleers the special terrain or supernatural modi-Some of these modifiers are very common costs! (Dragons, for example, always get their twopoint bonus unless fighting a Devil), others airly common (cavalry gets a point or two while fighting in open ground), and some are quite rare (archers get their one-point bonus only in forests). Cost per strength point and cost per special strength point reflect how much gold is required to build each unit relative to how strong the unit is.

Unit values not easily tabulated are those powers which affect an enemy's stacks rather han your own; catapults reduce a city's defenders by one or by two depending on the strength of the city, while Devils and Archons eliminate the bonuses the enemy stack receives due to the presence of special units. Elephants, handy creatures that they are, reduce the enemy's strength by one regardless of the terrain or presence of special units.

Depending on the given circumstances of a game, some bonuses are not worth as much as they are ordinarily; if your opponent's army is simply swarming with devils then few of the bonners will be worth anything at all, since your enemy's devils will negare the bonuses when you fight them.

Note that the table uses the normal values for units. Occasionally, a city will make units that are non-standard. These changes can be a one-point combar difference in either direc-

points, or a one-rurn difference in production time. It is possible, then, for a city to construct heavy infantry with four combat strength points, ten movement points, and a one-rum construction time. For the most part, however, units will follow the rulebook values

Usually, a country will be able to afford as many military units as it can build. This would seem to make the unit cost somewhar irrelevant, but this is not the case; a few gold pieces per unit times 100 units can make a remarkable difference in your overall sold availability. Since your treasury determines whether you can afford to hire another hero or purchase fiers that certain units receive or produce. spiders at an important city, watch your unit

Putting Units To Good Use

Scouts are good at exploring unknown territory, moving through hills and forests as rhough they were clear terrain. They are the best units for naval nurposes, as they are the cheapest and the istest to build. Since all navies have a strength of four, scouts can be used to take out huge quanrities of enemy strength at minimal cost to yourself. But they are thoroughly pathetic fighters on land and contribute very little to any stack they are in, aside from their ability to guide stacks through bad terrain.

Bats make the perfect explorers; as aerial units they see an extra square in all directions in hidden-map games. They are very expensive relative to their strength (although nor very expensive in an absolute sense) and make poor combat troops. Quickly produced at the beginning of the game (and only rarely thereafter), buts can survey vast amounts of territory very quickly.

Light Infantry are the grunts of most narions. Slightly stronger than scouts or bats, they are very inexpensive and can be built up quickly. They make good navies due to their inexpensive nature, and in a city with a defense of 2, they can make an enemy attack an expensive proposition. They and get a combat bonus in woods. However, are not senerally useful on the offense, but on they are expensive relative to heavy infantry occasion a powerful enemy stack will move which is just as strong anywhere else. Reasonwithin range of a vast number of superfluous ably fleet of foot, they can be used on masse in light infantry, whereupon the enemy's high- woods as a strike force, raiding enemy stacks powered troops will receive retrible casualties that are ponderously trudging through the before stomping your infantry (a fair tradeoff, bush. wouldn't you say?).

Orc Mobs are cannon-fodder, rheir only advantage over light infantry is that they can move through hills and forests like scouts. They are slow, take twice as long to produce, and cost more than light infantry; on balance, they are not the best unit to buy. If you need a guide, build scouts better is available. instead

Light Cavalry are another unit of little worth. They are weak (though not so bad in open ground) and don't produce very quickly. They are exceptionally for fighting in the open. The only problem fast, however, and make decent explorers through lattre quantities of open terrain or on roads. They are fairly good companions for a heto questine after artifacts as well, as they sendine pikemen forward to hold cities on provide sufficient protection against the occasional enemy army and don't slow down the heto. Don't build them if you have anything better available, but their replacement by heavy cavalty can be delayed if no funds are



Catapults are occasionally useful. Their ability to eliminate the defender's city bonus is helpful, especially when the defenders are tough city rroops like spiders or griffins. They are extremely slow to produce and very vulnerable; on balance, I'd rather have a griffin or spider as part of an attacking stack. In any citcumstance other than attacking a city, their expense, weak strength and extremely slow production time make them a poor investment

Heavy Infantry are excellent defensive troops. They are inexpensive, reasonably strong, and reasonably quick to produce. They move very slowly, but once entrenched in a city their movement rare becomes irrelevant

Archers are another special-use unit.

They are wonderful to have in forests.

as they move through forest normally

Dwarves have the same performance characteristics as archets, but are effective in hills rather than fotests. They are also among the slowest units in the game. Heavy infantry is better for city defense and wolfriders are better for hill combat: there really is no reason to build dwarves if anything

Pikemen are good city defenders They are setone, very inexpensive, and in a pinch can be used to sortic outside of a city, as they get a combat bonus with pikemen is that they are very slow to produce. Defend your rear cities with pikemen; once the city is adequately covered, start our frontiet. They move slowly, but as with heavy infantty, defenders don't need to move.

Heavy Cavalry are the premier openground combat troops. Surprisingly cost-effective, they are teasonably fast movers. Don't waste heavy cavalry on city defense; send your heavy cavalry to the front and let the dogfaces hold the masonry. There are better troops for city assaults, but heavy cavalty are strong enough to do it in a pinch. or if strongly led.

Wolfriders make good general-purpose troops. They are reasonably strong, reasonably inexpensive and quite fast. Their combat bonus is usable only in hills, a rather uncommon combar site in most earnes.

Giants ate the ideal general-purpose troops. They are strong, reasonably priced and fast on the ground. They have no special bonuses. Ouickly produced they are excellent troops for the beginning of the game when taking neutral cities is the main

Minotaurs have the same performance characteristics as piants, but are slower. Additionally, they have a small combat bonus while in cities, which makes rhem good attack and defense troops.

Spiders are the ideal city attack and defense truops. They are strong (VERY strong with their bonuses), extremely cost-effective when used in their proper role, and quick enough to move from city to city with reasonable speed. If you can build spiders, do so.

Perasi are not much good in and of themselves; while strong and speedy.



they are slow to produce. However, they add an additional +1 to any stack they join, in addition to any other bonuses. This makes them very useful as part of attacking of defending stacks. Flight capability adds to their peneral utility and makes them good hero companions,

Griffins are the city-busters of Warlords. Fast and extremely strong when attacking of defending cities. their only problem is rheir slow production rime. Their ability to fly makes them sood for overseas operations.

Unicorns fall into the same category as pegasi, but are strong enough in as pegas, our are make them a powerful main combat unit.

Elephants are extremely powerful and fast units whose special power is to reduce an enemy stack's effective strength by one point per unit. A slow production time is their only flaw.

Wizards are the fastest unit in Warlonds 2, more than twice as fast as dragons. While not overwhelmingly strong, their incredible movement rate means they can move a third of the way across the map in a single turn. At the beginning of the game, this means a wizard may conquer several neutral cities simultaneously: later, rhis biob movement tare means they can flexibly defend or attack in conjunction with other, slower stacks almost anywhere within your territory. The first of the supernatural units, wizards are well worth producing in any circumstances. Like all the supernatural unit types, wizards cannot be constructed: only a city already capable of making them can do so.

Worms are strong, cost-effective, and slow. They are wonderful defensive units, but their slow speed means that they will retard the progress of most attacking

Undead are identical to worms in every way, but are quicker. They are good general-purpose units, and their supernatural bonus means that mundane

> (Continued on page 210) Page 191

At What Cost Victory?

An Analysis Of Economics And Production In Three-Sixty's High Command

by Robert L. Hayes, Jr.

ggi Communio, Trive-Soxly Pathy grand serategis simulation of WWI's game system with a wealth of detail shan, game system with a wealth of detail shan, German Chancellor or English Prince Miniter. To make matters worse, the game's manual is, to be as polite as possible, inadequate. This article is inneeded to clarify stuste that are not well understood by many High Communid players, as well as to discuss grand strangicle

One look at the game's structure reveals that commiss and production are the central points of any well-designed strategy. Though the contomic and production systems are comtroversial, in that many gamers feel there are too many decisions to be made, it is possible to prestate simplify there state.

issues involved in the same.



There are only three general types of to source-producing sites in the game. Oil and mineral production sites produce the raw ma terials needed for your war machine. Factoric and shipyards convert these raw materials into the actual ground, air and sea units. Nations capitals provide the economic points that ti the entire system together. Economic point are an abstract measure of the manpower efficiency, and civilian production of a given country. It is important to note that Hig Comments's economic system follows a limit ing-factor model; it generally takes all three components (raw materials, production facili ties, economic points) to produce any give unit, but your unit production is limited a the smallest of the three contributing factors.

So, if you have infinite raw materials and

If sign Command, Three-Stey Pacific's infinite conomic points, your production of with Thus, to achieve optimal production grand strategies insulation of Wwyll's anke will be limited to the evaluable factory increase is not sufficient to emply increase game system, with a wealth of detail because. Conversely, all the production in your spepty of new materials, factories or consequence with a wealth of detail to, the world will did you in poged if there are no some joints, you must praint as balance.

Table 1 - High Command Production Table (1939 Data)

Unit Type	Qty Built	Total	Total Min	Total EP	Total Ground	Total Air	Total Sea	Total Factors
Infantry	72	360	360	360	1800	360	720	2880
Armor	18	360	360	180	900	180	90	1170
Mech Inf	36	720	720	360	900	360	180	1440
Airborne	24	600	600	360	600	0	0	600
Marine	72	360	360	360	1800	360	0	2180
Fighter	18	360	360	180	270	900	270	1440
F/B	18	360	360	180	900	270	900	2070
Bomber	18	360	360	180	270	270	270	810
Transport	36	180	180	180	0	0	- 0	
Merchant	18	180	180	180	0	0	. 0	
DD	12	120	120	120	180	180	180	540
CA	9	90	90	90	135	450	135	720
88	4	60	60	90	200	60	200	460
CV	2	40	40	40	100	100	100	30
SS	12	120	120	120	0	0	600	601

Table 2 - High Command Production Table (1939 Data)

	Nation: Ru	ssia							
Unit Type	Qty Built	Total Oil	Total Min	Total EP	Total Ground	Total Air	Total Sea	Total Factors	
Infantry	72	360	360	360	1800	360	720	2880	
Armor	18	360	360	180	900	180	90	1170	
Mech inf	36	720	720	360	900	360	180	1440	
Airborne	24	600	600	360	600	0	0	600	
Marine	72	360	360	360	1800	360	0	2160	
Fighter	18	360	360	180	270	630	270	1170	
F/B	18	360	360	180	630	270	630	1530	
Bomber	18	360	360	180	270	270	270	810	
Transport	36	180	180	180	0	0	0	0	
Merchant	18	180	180	180	0	0	. 0	0	
DD	12	120	120	120	180	180	180	540	
CA	9	90	90	90	135	315	135	585	
88	4	60	60	60	140	60	140	340	
CV	2	40	40	40	100	100	100	210	



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Table 3 - High Command Production Table (1939 Data) Nation: Econon

Unit Type	Qty Built	Total Oil	Total Min	Total EP	Total Ground	Total Air	Total Sea	Total Factors
Infantry	72	360	360	380	1440	380	720	2520
Armor	18	360	360	180	720	180	90	990
Mech Inf	36	720	720	350	720	360	180	1280
Airborne	24	800	600	380	480	0	0	480
Marine	72	360	360	360	1440	360	0	1800
Fighter	18	360	380	180	270	900	270	1260
F/B	18	360	380	180	720	270	900	1710
Bomber	18	360	360	180	270	270	270	810
Transport	36	180	180	180	0	0	0	
Merchant	18	180	180	180	0	0	. 0	
DD	12	120	120	120	180	180	180	540
CA	9	90	90	90	135	360	135	630
88	4	60	60	60	160	60	160	380
CV	2	40	40	40	80	80	80	240
88	12	120	120	120	0	0	480	480

Table 4 - High Command Production Table (1939 Data)

	Nation: Ital	y						
Unit Type	Qty Built	Total Oil	Total Min	Total EP	Total Ground	Total Air	Total Sea	Total Factors
Infantry	72	360	360	380	1080	360	720	2160
Armor	18	360	360	180	630	180	90	900
Mech Inf	36	720	720	360	540	360	180	1080
Airborne	24	600	600	360	360	0	0	360
Marine	72	360	360	360	1080	360	0	1440
Fighter	18	380	360	180	270	630	270	1170
F/B	18	360	360	180	630	270	630	1530
Bomber	18	360	380	180	270	270	270	810
Transport	36	180	180	180	0	0	0	
Merchant	18	180	180	180	0	0	0	
DD	12	120	120	120	180	180	180	540
CA	9	90	90	90	135	360	135	585
BB	4	60	60	60	140	60	140	340
CV	2	40	40	40	70	70	70	210
SS	12	120	120	120	0	0	420	420

forts will be wasted. Generally speaking, pro- and the USSR each have their own national duction is the bottleneck except at the very beginning of the war or when enemy action production (the amount of industrial producdeprives you of large portions of your nation's

Further complicating this tightrope act is the fact that different nations have different production priorities. Units cost the same amount of resources for all the nations in the game, but different countries' units have different combat abilities: German infantry is substantially superior to Italian infantry, while costing the same amount of resources. Thus, while what you am build is the same from country to country, what you should build is a onestion of strategic priorities and the varying

unit abilities. Tables 1 through 4 detail the various production capabilities of the major national groups in the game, The United States, Britain and Germany produce units with identical

tion available at all factories or shipvards) of 60, a number that works well for purposes of calculating the total number of units that can be built. Obviously, a country with more or less production available will obtain different results; these numbers are provided as an international comparison. The tables are built with the 1939 start values in mind; the exact numbers will change as technological advances increase individual unit types' performance numbers. The number of units shown is the number of units that will be built in one year of production if the necessary resources (the next few columns) are present. The columns listing combat factors display the total

the apprair columns) for reasons which will be made clear later.

The tables make two things very clear. One is that some classes of units are much more expensive in terms of raw materials and economic points than others. Mechanized infantry, for example, is staggeringly expensive in terms of oil and minerals, while capital naval vessels are very cheap. Note, however, that depending on the amount of raw materials you have, the expense level of what you build may be an irrelevant consideration; all that is important is how many combat factors you can field from a given turn's production. Secondly, some classes of units are overwhelmingly powerful in terms of how much combat power you can get out of them in a given amount of time, notably infantry.

The question of what to build, of course, depends in large measure on what you are planning to do. The vagaries of war and the vast number of military options available to both sides make generalizations almost useless. It would seem, for instance, that France should build nothing but infantry to forestall the inevitable blitzkrieg (or at least try and slow it down a little bit), but even that truism may not hold, depending on Germany's intentions. However, analysis of the combat factors involved can show which unit classes atc hest suited for various missions.

Naval Matters

The naval situation is fairly clear. The table provides a bit of misleading data here; in looking at the total combat factors (ground, air and sea) it would seem that there is a fairly wide selection of units, depending on mission role. This is not true. In a competently managed game, your new will never conduct a shore bombardment (sea-to-ground) and will never engage an enemy air force (sea-to-air). This leaves only the sea-to-sea factors to consider. and in that category it is clear that submarines are the undisonted kines of the sea, with a year's run of submarines for any power proartributes. The tables presume a total available ducing at least twice the sea-to-sea combat factors of any other naval category. However, due to the special sub-killing properties of destroyer units, submarines should not be your only naval asset. I recommend a production tatio of two submarines to one destroyer versus the computer. If you are playing a human, the exact ratio of subs to destroyers will depend on what that player produces. If he is producing an all-sub force, then by all means produce an all-destroyer one. (And if he produces an all-destroyer force, then you still must do the same; however, for the major powers an all-battleship force is marginally better against an all-destrover force than is

another all-destroyer force) The reason that you will never conduct combat factors that will be obtained in each of shore bombardment or engage an enemy air the three combat areas (land, sea, and air) from force with your naval groups has to do with the listed units. Note that some of the combot the way the High Command combat system (and superior) attributes, while Italy, France numbers are somewhat misleading (mainly works. You cannot amphibiously invade or

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bombard any important site, only uninhabited coastline. The simultaneous movement of the ground combat system makes garrisoning the coastline a waste of forces; leaving powerful counter-strike forces one or two hexes inland of an endangered beach is a much better idea. This leaves nothing for the attacking naval force to bombard. (The computer player uses the counterforce-in-reserve defense as

Your ships will never fight enemy planes because ships at sea on missions are immune to enemy air attacks: only in their home ports (or, if left on an enemy beach for mysterious reasons) are they vulnerable. In both situations, your own air units should be providing CAP protection for the fleet. (You can almost always simply have a naval unit's home port he far out of reach of enemy air.) Only an isolated invasion site is going to be (or should he) out of reach of your own air units, so unless your enemy has total air superiority (in which case, shut the game down because it's all over) yout navy is airplane-proof.

Ground and air units pose a more complex problem. Cursory reading of the tables would indicate that an all-infantry army is the way to go, but in reality this is not true. Infantry is the backbone of a defensive army, but almost useless to an invader due to its slow speed. Paratroopers look like a terrible investment, but their special power of dropping from a distance makes them fat more effective than the raw numbers would indicate. I have experimented with an all-parattoop army for Germany to use against England and France, with reasonable success. Paratroopers in the Mediterranean are priceless, and the Italian economy can be put to far worse uses than churning out paratroopers full-time. As a general rule, build infantry and fighters if you are planning to defend.

If you are on the attack, then your air arm should consist of fighters and fighter-bombers in a proportion of about one to two. This ratio should vary depending on the fighter strength of your opponent. Unescotted fighter-bombers are doomed if they encounter significant enemy CAP; a strong fighter shield is a critical part of any offensive unless your enemy has been swept from the skies. Strategic bombers are expensive relative to the benefits proffered; noted by them if your other service branches or the economy; subsequent yearly values show matic coverage at the billion is a subsequent yearly values show the production after 12 turns of 1-point investment, your vassal states.

nremacy over the enemy. The sole exception to this should be Britain; oftentimes strategic bombine of Germany is all England can do to help Russia against German aggression, and producing a small but steady stream of bombers can draw off valuable German fighter cover from the eastern front

There are three primary offensive ground units. Armor is incovensive (relative to the other two) but you cannot build very much of ir. Mechanized infantry is just as fast, just as good on ground attack (since you can build more of it), and has the added bonuses of being highly resistant to enemy air attack and getting the defensive bonuses granted to infantry; its only drawback is the obscene expense in oil and minerals. If you have those resources, though, then mechanized infantry is the king of the battlefield. Paratroopers are probably too expensive for general use, though they are wonderful for cracking open critical parts of an enemy line or reducing a fortress not accessible by ordinary means.

Local Or Global Investment?

One issue that confuses many High Command players is that of local vs. global investment. Some purchases (military units and investment in factory production) are local; that is, they are built at a factory and appear at a factory, there being no vectored production in the game, Other purchases (research and economic investment) are universal, meaning that they can be built at any factory. If you spend one economic point on economic investment or research at each of five factories your total investment is exactly the same as if you had spent five points at one factory.

A guestion which often arises is how much to spend on investing for future production. Fortunately, modest investment in future production and/or economic enwith is quite inexpensive, and I highly recommend it for any power expecting to remain in the war for more than a year or so. (France, obviously, may decline to invest in production, since Germany will be the power that gains the advantage of French industriousness.) A one-point investment per tuen in a factory's production and in economic growth yields impressive dividends over the course of the war. Table 5 shows the net effects of such investments.

Table 5 - Long-term Results of a One Point Investment Per Turn

Year	Factory Investment	Economic Investment
1940	20,0	200.0
1941	22.5	212.3
1942	25.3	225.4
1943	28.6	239.3
1944	32.2	254.0
1945	36.3	269.7
1946	40.9	286.4

Note: 1940 value is the initial size of the factory

One major error in the documentation asserts that failure to invest any economic points in your economy will result in a one-half percent decline in the economy size; this is a misprint. Failure to invest at all in your conomy will result in a 50 percent decline in your economy. Under-investment in an economy will shrink it by an amount equal to one half of the deficit: that is, if you need 100 EPs of investment to maintain the status quo, then investing only 80 EPs will result in your economy shrinking by 10 points. Never under-inyest, except in one situation: If you expect your opponent to capture your country in a turn or two, stop all production and start transferring all your raw materials and economic points to our allies, every turn, (France might consider doing this from the start against a strong German opponent). This means that your enemy will capture, not a rich country butsting with economic points to be plundered, but a patheric shell incapable of paying for anything,



Note that when you are using captured pro duction facilities, they produce units with the national characteristics of the factory they are made at. For example, German control of Brest will not cause Brest to produce German submarines; subs produced there will have German markings and coloration but will have French characteristics. If you are one of the naval great powers, produce as much of our navy as possible at your home shipyards. If you are a minor naval power, try and produce at captured, superior yards. Also note that rechnological advances only assist new units constructed; your old units derive no benefit from technology advances.

On 90 percent of your turns in High Command, you can allow the computer to allocate resource transportation and political investment. Minor changes to the computer's assignments (which are done reasonably well) are simple and will take far less time than doing the entire weary business yourself. Production should never be left to the computer, as (not being telepathic) the AI does not know what your production priorities are and will produce the wrong things. The best order in

which to perform economic activities is: 1. Delegate political allocations to the High Command. Do this first, while you have a lot of EPs to spend. This gives you good diplomatic coverage and gathers your tribute from

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2. Delegate resource transportation to the High Command.

3. Conduct production activities. Do not forget to allocate research and economic investment points.

The question of which grand strategy to pursue can be a most difficult one to resolve, particularly for the Axis player. The Allies in many ways have it easier, in that their main objective (stay alive) does not change for most of the game, but even the Allies have to make many decisions about the relative priority to assign to each front and what offensives can be made from the limited stock of military force at their disposal. The Axis at the beginning of the 1939 scenario is faced with all of Europe to conquer, too much conquest can bring about early Allied intervention with the problems that this causes, but to be too cautious is also danserous. The Axis player has one enormous advan-

tage over Hitler: The USSR is far less likely to become an Allied power than in the actual war. Careful German maneuvering on the eastern front and proper diplomatic allocations can keep the Russians off of Germany's back for a long time, if not indefinitely, making the conquest of England and France very simple, as only a small garrison force is necessary to provide a delaying action in the unlikely event of a Russian activation. The great weakness Russia has is that, unlike in the real war, she does not acquire any new forces (other than the Siberian units) until she activates: this means that Germany can build up a truly monstrous army and crush Russia in a very brief campaign.

The Grand Strategy

There are so many different ways to conduct the grand strategic war that it would require several articles longer than this to convey a are many techniques and operational maneuvers that are worth making public.

force, mass your CAP over your most important formations rather than attempting to cover the entire line. The computer player tends to "piecemeal" its air assaults, and you can destroy large portions of his air wings a b at a time as they fall into the maw of over whelming numbers of air units. (Even the British and French air forces can nearly elim nate the Luftwaffe in this fashion.) If you har tessonable air superiotity and a forward d ployment of your air forces (dangerous, b often worth the risk) you can strike his a wings "on the ground" before they have chance to merge by ordering one-hex CA over the enemy airfield. When his air for rises to begin its own missions, it encounter your CAP and is destroyed. This works very well on the Russian front for both sides. When

air reserve; don't feel that you have to use every unit every time. If you have enough units to store, use only your "green coded" (high organization) units in a given turn, giving the more tired units a chance to tegroup

On the ground, always coordinate major attacks by using the "delay an impulse" order. Five eight-factor armor groups atriving at the target simultaneously will do far more damage than five eight-factor groups attiving one per impulse. Unless an objective is at the end of your movement path, stop there. Don't continue onwards, as the computer player (and your human opponent) is tricky and will often schedule a small infantry unit to arrive in a contested hex at the end of the movement phase, after your conqueting forces have cantured the hex and then moved on. Cutting units out of supply is difficult on the western front but very easy for both sides on the eastern front: do it whenever possible, as then your smaller infantry units can very easily mop up the unsupplied remnants of your opponent's

Organization is returned to your units at the end of each turn as long as they are in supply; their actions during the turn do not have any affect on how much organization they have restored. Each unit's new organization value at the end of the turn is calculated by the formula

New Organization = Old Organization + (100 - Old Organization) * (100 + Old Organization) / 200

Table 6 shows sample organization values. If the new organization is at 50 or above, there is a chance that the unit will tetutn to 100 organization; the higher the rating is above 90. the better this chance.

Many of the strategies and tips presented here are made with the computer opponent in mind. As serious players of the game have basic discussion of each one. However, there realized, human opponents are far more challenging and make the game much more worth the time it takes. Most of the ideas presented When fighting an enemy (computer) air here are either valid when applied to a human player or can be easily modified.

Table 6 - Sample Organization Changes

Old Organization	New Organization
10	58
20	88
30	75
40	82
50	87
60	92
70	96
80	98
90	99

I would be very interesting in seeing comfighting a human opponent, who is presum- mentary on this article or suggestions on adably wise to your tricks after the first time you ditional tactics and techniques. I can be use them, try and maintain a reasonably strong reached via CompuServe at 70314,2302. com

The Fog of War Can Sometimes Make You Choke

SimCan's Game of Naval War. Red Sky at Mornina

by Terry Lee Coleman

ack in the Dark Ages of Wargaming. Steve Newberg and Bill Nichols were makers of board watgames. They had a reputation for interesting, if esoteric, sames which they published under the Simulations Canada label, otherwise known affectionately as SimCan. Entering the Computer Age of Gaming, Steve and Bill designed games first on Amigas, then IBM platforms for a larger audience. In keeping with their company's idiosynctatic nature, the games contained no mushics, even though this ignored the immense graphic potential of the Amiga in par-

SimCan carved itself a niche by teleasing realistic naval games, heavy on statistics and fog of war," praised by chaos types and shunned by control freaks. Red Sky At Morningstatted as metely another boardgame conversion, but changed in some strange ways. In a major concession to the fact that people like to see what they are doing, Red Sky offers the first graphics to ever appear in a SimCan computer game, and suggests a VGA moni-



For the astrate readers who have svoided a heart attack thus far, what Red Slev concerns is worldwide naval warfare in the aftermath of the Cold War. It is possible to simulate a US-Japanese conflict, for those who have any doubt how such a campaign would turn out. The Fulklands conflict can be recreated as can any actions of the past decade or so. The Bie Bad Meanies, though, are still the Russians (Soviets), or whatever one wishes to call them. Thus does the design show its age. SimCan cannot be blamed for the fall of the Betlin Wall, or the Warsaw Pact demise. Still, a sources). What's interesting is

porary naval simulations gets off to a shaky start, as it is a plot in search of a villain.

"What's the special today?" "It's right there on the menu, see..."

One of Red Sky's strongest points is that it is fairly easy to learn. The biggest setback for most users is that SimCan refuses to live in the Windows-type world. There are no pulldown windows or "hot keys." all information having to be accessed through DOS menus which would have been familiar to users 10 years ago. There is, of course, no mouse support either.

The determined player will find a wealth of information at his command, despite the awkward interface. Felix Hack did the orders of battle, and has done a fine job of making Red Sky more than a rehash of Jane's Fighting Ships. When the player gives orders to his ships, he has a wide variety of armaments from which to choose. The old F-4 Phantom. still in use around the world, is quite useful in the game due to its versatility, but can't quite handle the newest Soviet (Russian?) interceptors. To simulate advances in technology, the player is allowed to increase lethality of weapons for one or both sides. Even as impressive as the database is, there are still some troubling questions. US ships seem to sink much more often in minefields than do their Russian counterparts. Russian weapons are also more effective than US, both in terms of how often they hit and in amount of damage caused. Given the petformance of US/Allied technological weaponry in the Gulf War, one can't help but be skeptical.

"What's out there?" "Can't quite tell. My glasses are all fogged up.

Reports are available from all over the globe, from P-3 Orions and stealthy subs, even from spies (actually, that's "highly classified" game touted as the most realistic of contem- that the "eyes and ears" often



shoot at the enemy after he is found out; it is amusing to see the old P-3s shooting Harpoon missiles at an opposing battle fleet (although not so amusing for the P-3 crews when the Mig-29s scramble to intercept them). In any "fog of war" simulation, the side with the best information generally has a huge advantage, Red Sky being no exception. Battlegroups (the basic unit in the game) are allowed to have radars and sonars acrive or passive. With large groups, such as US aircraft



carriers, the player learns quickly that the bioships cannot be hidden well, and as a tesult should sail with everything active, hopefully to find the enemy first. Subs work fine with passive sonars, as should be likewise anticipated, All well and good, but nothing gamers haven't seen before in games such as Harpoon,

or even Red Storm Rising for that matter. Although it is difficult to find the enemy at times, once found, there are no more mysteries. The player always knows how much damage the enemy has suffered, with a "body count" of planes, ships, etc. ready to spring at the touch of a key. It's not difficult to imagine that the enemy captain's home phone num-

Red Sky At Morning



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TERMS AND CONDITIONS

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bet is in thete somewhere, if only I can temember which menu to look under. Where are the inflated reports of enemy kills, as in Carriers At War? Technology is certainly advanced enough to provide accurate reports, but pilot fatigue, over-enthusiasm, and plain old mistakes could have been factored in for even more "fog," and more player enjoyment.

Should the player move to the newfaneled (for SimCan) graphic interface, he is liable to be more disappointed. The idea is greatprovide situation maps for each region of the world. Thus, players can see how forces are arrayed in the Indian Ocean or the Western Atlantic, Enemy ships may also be seen if they have been discovered. The problem is that the maps are low tesolution, with the ships appenting as blobs of primary colors. If SimCan used 256 VGA for these displays, then 253 of the colors are in shades of green. This might have been acceptable five or six years ago. But not anymore. SimCan would have done just



Certainly, the rest of Red Sky is bereft of color. Except for the opening screen, there are no color backgrounds for the gameplay results. So what the player sees for combat tesolution is line after endless line of text on a blank screen. SimCan could take a cue from publishers of sport stat games, such as Lance Haffner, who use multiple coloted backgrounds and a "split screen" look to spice up their games visually. Despite the wealth of information in Red Sky, the player is sometimes left with the uneasy feeling of manipulating a database, tather than playing a game.

"Strange-looking clouds." "Yeah, rain looks kinda funny, roo."

Red Sky assumes that tactical nuclear weapons are a necessity in the modern mayal world. Players choose what level of nukes can be used by each individual nation. While the player has the option to prohibit their use, the game assumes that each side will use them frequently on major targets, such as airbases. With only minor victory point penalties incurred, there is every reason for the player who is behind to "go nucleat" in more ways than one. Such a casual attitude belies the tealism and detail which exists in the test of the design, especially since atomic weapons have not been used in combat in 48 years. After nukes are used, there is a hidden



occur. In 12 games I nevet teached it, even with free and easy use of nuclear missiles and bombs by both sides. If the game were truly trying to be realistic, there would be some effect from electromagnetic pulse (EMP). EMP would affect both reports from the area and all kinds of sensory devices around the world. Perhaps this would be too much "foe" oven for SimCan

What Red Sky could offer is a simpler alternative to the Harpoon series, easy to get into and quick to play. That all the testarch work herein goes to waste is only part of the sad story. As released, Red Sky lacks many player amenities which would make it more accessible for the person who might peyer buy a wargame again. The save game function simply does not work, and regardless of how quickly a patch is available, what does this say about SimCan playtesting and quality conttol? Red Sky wants so badly to be Harpsonperhaps when it grows up, pow



ceiling where global thetmonuclear war will

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More Steel Tips

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bu Alan Emrich

player will always oblige.

ast issue I presented the keys to victory in SSI's Clush of Steel and second Fleet 2, the third is the Transports, the fourth through seventh even offered a "perfect plan" for the Axis conquest of Europe. √Included were important tables to explain many of the "die rolls" in the game. In this installment, detailed tactical tips are presented for air and naval combat, while the economics and diplomatic pame are both put under the microscope.

Tactical Tips: The War at Sea

Let's begin with the war at sea which, ironically, plays much like the board game War at Sea from Avalon Hill. Things to temember for the naval same:

- The proper way to conduct an amphibious invasion is to more one's transport(s) to the "Transporter" box in the sea zone where units are to be loaded from. Load all units onto these transports before unloading anyduring the invasion impulse. Once any unit is unloaded by sea, no more units may be loaded onto ships for the test of that nim
- 2. Each fleer's formation (or "box placement" within a sea zone) is the most important part of the naval war. This is where using some strategy and "playing the petcentages" teally pays off.
- The table on page 33 of the manual says it all. To avoid naval combat, send ships out as individual raiders. To preserve a task force, make it a transporter group. To hunt down the enemy, make fleets. By forming two distinct fleets in a sea zone, the chances are doubled of finding the enemy (although they might only be initially engaged in battle with those ships that were in the single, sighting fleet)

The down side to raiders is that, when they are discovered, they fight their first combat round individually. At least ships that cower as transports will fight their battles together as a team. Keep this in mind when deploying ships.

3. Note that only the best unit in each individual box (Fleet 1, Fleet 2. Transporter and each of the four Raider boxes) actually combat enemy convoys each tutn. If one player has naval combat units in either of the Fleet 1 or Fleet 2 boxes, and his opponent does not, that opponent's convoy PPs from that sex zone will be completely eliminared. In this way, the Fleet 1 & 2 boxes can "blockade" enemy convovs

 When naval units deploy for a bartle continuation decision, each of the eight rows where they might appear has significance. They serve to remind the player, when deciding whether to stay, retteat from, or reinforce a naval battle, what box in the sea zone those naval units are currently positioned in. The first row contains the ships in Fleet 1, the

are the Raiders, while the last row is reserved for land based air units. 5. An undocumented feature is that damaged ships have one added to their combat die rolls. Thus, a damaged ship only hits if its attack die roll is less than (but not equal to) its combat strength

6. Remember the nautical choke points located in Istanbul, Hamburg and Gibraltar. Control these cities for free access through their restricted passageways and to cut off enemy ship movements through

- 7. Computer players get twice the sea lift capacity out of their transports as human players do.
 - 8. To better protect transports on invasion turns, sail them out of sort with other ships from that same port. Putting all of your ships into one fleet sent from one port helps protect transports duting any ensuing naval battles.
 - 9. The Germans need to keep the North Sea in sea supply (i.e., have a surface ship there) to take advantage of their special Norway rule. 10. When playing the Axis, the Allied navy reacts to any Axis fleets in the North Sea by sending most of their navy there to engage it. If you want to engage in a big naval battle there, the computer Allied

11. Shote bombardment is like getting a free, no risk air strike (see the note on the Air Strike/Shote Bombardment table from Part 1). Don't pass up an opportunity to use Shore Bombardment.

12. To keep naval losses down, don't sail surface ships our to conduct hore bombardment until impulse 3 ot 4 of a turn. They will be able to shore bombard on the impulse they sail and won't be subject to naval combat on that turn (which only occurs at the end of impulses

1 and 2). 13. Ignore everything page 28 of the manual says about having a chance of being sunk in the convoy phase. That was written based on an old toutine that is no longer in the program.

14. One dirty Axis ploy to upset a western Allied computer player's plans is to leave Palermo open. This invites an Allied invasion to which they will probably overcommit forces (say, 3-5 land units). One good army or headquarters unit on the toe of Italy, particularly one placed upon a fortification, can easily bottle up the Allies. Suddenly, Sicily is the largest, self-contained POW camp in Europe!

The Odds of Invasion

When land units attempt to hit the beaches during an invasion, there Computer Gastine World



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is a chance that they will be intercepted by nearby enemy naval combut units as explained in Table 1.

Table 1 - Amphibious Interception

Die Where Enemy Naval Units Can Intercept From
Nowhere. There will be no interception of this invasion.

- 2 Fleet boxes 1 & 2 in the invasion target sea zone only.
 3 All naval boxes in the invasion target sea zone only.
- All naval boxes in the invasion target sea zone only.
 All naval boxes and harbors in the target sea zone, plus all Fleet
- boxes in neighboring sea zones.

 5 The above, plus all naval boxes in neighboring sea zones.

 6 The above, plus all naval boxes and harbors in neighboring sea.

After surviving enemy naval interception, invading land units have a base 70% of successfully landing on the enemy beach bex (not 80% as indicated on page 35 in the nanual). This 70% chance is ladved for

- each of the following conditions:

 a) If the hex being invaded has a fort.
- b) If the hex being invaded is occupied by an enemy unit.
- c) If the weather on the hex is either mud or snow. (Note that invading units must embark from clear weather ports, but they can land in adverse weather — with this penalty, of course).

If all three of these apply, that would mean a mere 8% chance for a successful landing? I's unit, fairly to make a successful landing? (which places it on the invaded hex with 1 AP remaining), then it attempts a second invasion die roll (at the same percentage chance as the previously fairled one). If it passes this first 13d or of the CIII, the unit at all lands, but takes 50% damage and has its APs reduced to zero. If it fails this second roll, the unit it dissolved.

this second real, the unit is disorbed.

Important broades Nore Always make high risk invasites (those Important broades) Nore Always make high risk invasites (those Important broades) Nore Always make high risk invasites (those Important broades) with 'cheap' units. A little copp unit has executly the same chance with 'cheap' units. A little copp unit has executly the same chance of saccording in an amphibious harding are low, excluse your the olds of saccording in an amphibious harding are low, excluse your thin the cheaches are under includy, follow up the next run with larger, more expensive land units. Note that 'Mulberry' units always how conference with the properties of the prope

Victory Through Air Power

Some techniques for the propet use of air units include:

C / WY

 Remember their range: seven spaces for conducting ground strikes, four spaces to defend against enemy ground strikes, on or adjacent to a friendly city (ironically, any friendly city) to defend against strategic bombing attacks, or on any coastal square to operate in the adjacent sea zone.

Note that the computer players never use their air units to defend against strategic bombing attacks. Human players can take advantage of this when waging a strategic air war.

3. Note that an air unit on strategic air defense is also available for naval air operations if focated on a coastal hex. Thus, they can perform double duty. They will not, however, intercept enemy air strikes against nearby friendly land units.

4. Air units placed out of the reserve can be placed on any friendly controlled, supplied hex. They don't have to appear within a supply block or adjacent to a friendly city. This gives them amazing flexibility when combined with re-basing (if they start in a clear weather zone) and operational movement.

Remember, depleted air units cost 2 PPs per strength point to replace each turn, where all other units cost only 1 PP. Pushing too hard with airplanes is expensive!

6. The manual states that the combat strength is halved for air units based in the mud or snow. (on page 32). This is incorrect. They are reduced to mor-bird of their strength (as stated on page 41 of the manual). This reduction won't appear on the unit's face value, but it will be factored in to any air strikes they make.

7. There is a (undocumented) 50% chance that an air unit will not intercept an enemy strike mission when it has the opportunity.

Conquest Quirks

When does France offer a Vichy Government for surrender? At the end of the impulse in which a French city falls to the Axis for the fire to the control of the control of the Control of the Axis for the fire to the control of the Control of the Control of the Control to the Control of the Control of the Control of the Control to the Control of the Control of the Control of the Control of the the Last French city falls.

Note that the computer player will always accept a Vichy surrender and will never declare war or Vichy. Players who riget a Vichy offer allow all French units on the board to temain in the Allied foce poll (units available for play) for the rest of the game. Fernch units not currently in play each have an 80% chance of being removed from the same (and the Allies can build the rest).

Spain and Turkey, unlike other minors, do not surrender when their last city falls. Instead, they surrender when they lose their capital

(Madrid and Ankara, tespectively) plus one other city.

The Politics of it All Many players have wondeted what their actually chances of success failure are when they actempt to "press" a neutral country diplo-

or failure are when they attempt to "press" a neutral country diplomatically. Here is super-secret formula used for determining diplomatic success in Clebs of Steel.

First, a d(100) roll must be less than the pressing player's current political points. Players always want to have as many political points



Page 204 Computer Ganang World













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Then, a second d(190) roll must be greater than pressured country's break value (including the Balkan Pacr value, where applicable). Note that the computer rolls a d(150) here, thus "cheating" and getting a better shot at diplomatic success.

lef either of these two die rolls fail, then the attempt fails and the pressing player loses some political points. If both succeed, then the pressing player loses so political points and the pressed country leans turther to his side in the war.

For example, in the Full of 1940, the Germans, flush from their conquest of France and the low countries, have 80 political points. If they press Spain, with a break value of 75, there will be a 20% chance of success (80 x 25%).

There are two levels of disjonants access that can be achieved. If a country can be brought to learn between 50 and 599 points in one side's direction, they will lend the production value of their cities and resources to that side deasuming that they are within a supply partition that connects up to the receiving player's capitall, When a country causio or exceeds 100 points, it declares war and joint strat side as a full ally, placing its own army on the board and allowing both sides to managery through its zeroitory.

Political Notes

- Interestingly, political points are only awarded when a country is conquered, not when it Joins a player's alliance through diplomatic pressure. Thus, coercing Spain to Join one's alliance does not raise one's political stature.
- 2. When Paris is captured by the Axis. Spain will move 20 points in the Axis direction if a d(100) roll is less then the Axis current Political Point total. Note that the Axis political point level will be significantly higher if the Axis accept a Vichy Government which might occur with the full of Paris. (The computer does not extent in favor of itself on this
- die toll when playing the Axis.)

 3. Italy begins the war by leaning 80 points in the Axis direction, bur is still neutral. The Axis can raise Italy's status by +25 points (and, thus, usuall's secure their entry into the war) if either:
- a) Paris is captured by the Axis.
- b) At least two hexes of the Maginot Line are captured by the Axis,
- c) Or at least six Russian cities are captured by the Axis.
 4. The Axis never have to declate war on the Benelux countries in order to get them to surrender. When France surrenders, so will the
- neutral Benelux countries!

 5. If the Germans favor the Russians over the Rumanians in the "diplomatic wais" and maintain their eastern front garrison level each year, Russia's chances of entering the war are extremely small if Turkey
- 6. To help insure diplomatic success, use an old computer gaming chanting technique. Specifically, before making the first diplomating press, save the game. If it fails, restarct the game and try again until it succeeds. If it succeeds, save the game (and that successful attempt) and keep plugging away until things are arranged to suit.

Stacking the Chips of Production The connemic parturn in Clark of Steelis, on the surface, fair

The economic system in Clash of Steel is, on the surface, fairly simple. Each city produces a single Production Point (PP) per turn, while each resource produces two. However, there are some important variables to consider when checking the math on one's economy.

First, only major cities produce a production point every tutn. Fortunately, there are only three minor cities (all of which are Italian at the start of the war): Palermo, Tripoli and Tobruk.

Second, production points are only added if that ray or resource is will be at least a within the same supply partition (see p. 36 of the manual) as a player's Gheatrate garriard capital. This means, for example, that even though the Axis stars the to the fort bornous war with Helshik as a friendly city, because it is not in the same supply partition as Berlin, no PPs are received for it until after Leningrad falls cack) and it ago dismitarly, taley cannot collect for Tinnan until it is connected to transports. Government of the control of the control of the connected to transports.

Rome's supply partition). Conversely, Rumania and Hungary are both leaning 5th points in the Axis direction in 1939. Because they are in the same supply partition as Berlin, their combined 4 PPs are added to the German total each turn.

There are also key economic cities. Saratov, for instance, controls the Russian's Ural convoy of 8 PPs per turn (as well as its own PP). An undocumented feature increases the German's Swedish convoy from two to three points if the Axis control Oslo (as they do at the beginning of all but the 1939 scenarios).

The most important thing to transmister about production is that one "keeps the change" after units on the board are relaint to full strength as the end of each turn. During summer turns, in particular, the change of the chang

Finally, page 22 of the manual is incorrect. The cost to rebuild a dissolved unit (one lost while still able to trace a supply route or while conducting an invasion) is only 33% of its current price, nor 40%. However, the price of units is always subject to increase due to enemy bombing activity.

Weather, Goest Thou!

The Combined Weather Table included in this article is fittly self-explanatory. Each cumpaign game turn of two mouths sees the computer rolling a die on that table to determine the weather in the various Weather Zones. Note that the weather in the Mediterranea Weather Zone is always clear, as is every Weather Zone during the Marylune and lutyly/august turns.

Table 2 - Combined Weather Table

Die	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec
1	CCMS	CCCC	CCCC	CCCC	CCCC	MCSS
2	MCSS	CCMM	CCCC	CCCC	CCCM	MCSS
3	SCSS	MCMM	CCCC	CCCC	CCMM	SCSS
4	SCSS.	MCMS	CCCC	CCCC	MCMM	SCSS
5	SCSS	MCSS	CCCC	CCCC	MCMM	SCSS
6	SCSS	SCSS	CCCC	CCCC	MCMS	SCSS

Notes: The first letter represents the weather in the Temperate zone, the second is the Meditetranean, then the Arctic with the Arctic Circle zone listed last.

Trum continuation is based on the weather in the Temperate zone, while the Russian Winter rule is based on the Arctic zone.

V.E. Day

That's it from the bunker, folks. Now that I've given you the keys to $Closh \sigma S kets$ I hope that you will enjoy it even more. Above all closs to $Closh \sigma S kets$ I hope that you schedule a game with a wargaming buddy in the near future. It is no idle boast when I say that it's the most not, multi-human-player-arche-same-computer-screen game that I've played since $M \cap U.E.$

Finally, producer James Young at SSI has been working with the designet on a parch file for Clash of Sizel. Besides some bug lines, there will be at least a few changes made to the game. The strength of the Gibraltar garrison unit is likely to rise from 1 to 3 (which, when added to the fort bonns of 4.3 strength points plus an additional 70% for computer players units in forts, will make Gibraltar a tough nut to erack) and it appears that one will be allowed to rebailed but navel.

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A Pearl Of A Plan

A Winning Stratagem for SSG's Carriers at War

by Roger White
3. Position your carriers and your cover

arties atc. in more that one sense, the same of the game in SSC, Carrier at the same of the game in SSC, Carrier at the same of the game in SSC, Carrier at the same consideration of the same in the

The "Sunday Punch" Tactic

The January and The Technical The Japanese attempted this at Pearl Harbor, so I call this the Sunday Punch cacic. The Sunday Punch is a dawn attack against the enemy's main carrier force, and it should be your first carrier-based air attack of the

1. Cluster your carriers.

Seep one is to concentrate your curriers. Order your first carrier task group, If the slowposes travel about five knot self-refund to the lead group, they will travel as a tight bunch. If any of your goups are short on fuel, with least than 20 days left, spend some time in port contents or site, you'll be doing a for of silling, at flank speeds, and full tanks will bring you peace of mind.



2. Spend the first day on patrol.

Let your search planes tell you where the enemy is located. Top priority is finding his main carrier force, In most secancies this is two carriers cruising togethet; in Michway, it's two carriers cruising togethet; in Michway, it's two carriers for the control of the plane and forces (only one carrier in the group) or the sepalane tenders (a task group with one carrier hanging around reefs and shools). You want the full-less carriers.

By noon the day before the Sunday Punch, you want your carrier group about 400 miles from the enemy's main carrier group if you're Ametican, 300 miles if you're Japanese. If you arrive early at the party, keep your diseance. This will keep you out of attack range.

 Unleash the cover force on enemy carrier task comm.

task group.

At about 16:00 the day before the Sunday Punch, pur your cower rask groups on Bank speed and rush the enemy. The goal of these groups is to worry the enemy carrier goal of these groups is to worry the enemy carrier good one group will be in contact with the earlier group as hour before dawn so that you can unuch an as-dawn attack. Even if contact is made sifer dawn, the cower forces will be distracting targets for enemy air articles.

Have your carriers follow an hour or two later.

At 17:00 send your carriet task group after the enemy carrier group. It will be late enough in the day so that, even if the enemy knows your location, it will be too late to send an air attack before dark.

The clouds are your friends.

Storms are a closing carrier's best fittend. The enemy search planes have a hard time sporting through the clouds and attacking planes miss a lot. Maneurer so your carriers spend displight under heavy clouds when you are within striking range of enemy carriers. When you ruth the enemy carriers, actually rush for the cloud bank nearest them.

Position your carriers close to his about an hour before dawn. If you're American, close means within 170

miles—the extended fighter range. The ideal is 90 to 120 miles. If you're Japanese, all your planes can go 280 miles, but if you're closer, say 100 miles, your planes will arrive much sooner.

If your cover group has served well and the enemy carriers are within sight, launch your planes at night so they arrive at the first moment of dawn. There will be little opposing CAP, and even if the cattlets don't go down on the first attack, those gaping holes you'll leave in their decks will prevent any retaliation. From then on the scenario becomes a turkey shoot.

8. Load and fuel your planes. Don't put up CAP.

If dawn is coming and you're absolutely sure you're close, but the enemy curriers are not in sight, then load and fust your planes anyway and pull down your CAP's ot they can join the assault. This is rickly, rickly, riskly because armed and fueled planes on deck are an invitation to unconstrollable fire if there's a hit, but they also allow you to get your planes off the moment the sighting is made.



Start passing time in five minute increments and watch for the first sighting to be reported. However, doe't launch on the first sighting. It's likely to be wildly inaccurate in both ship description and position. If you get carriers haven't been sported, wait for a secsion of and third sighting before launching the Sunday Punch.

After the Sunday Punch

Once the enemy's main carriers are out of action, your carriers won't be subject to massive airborne regulation and you can cherry pick targets to run up your score. Carriers are the best choice, transports are next best, then capital ships and destroyers. Try to avoid carriers are carriers are destroyed because they will come capital and destroyed because they will come carriers sway from enemy cover task groups, and chase centry transports and carrier with your own cover task groups. Do these things and decisies vectories will be yours, now



intense heat and action, you'll both end

prize money - action packed, arcade style fun for your PC. But be warned - with its intense violence and voluntuous women. Metal & Lace: Battle Of The Robo Babes is for mature audiences only. And not for the faint hearted. Available now at your nearest dealer or call 1-800-258-MEGA. Or write Megatech. P.O. Box 11333, Torrance, CA 90510, Visa, Mastercard, checks accepted.

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(Continued from page 191)

units stacked with them will fight more effecrively.

Demons are identical to undead in most respects, but ate more expensive and even faster. This makes them

excellent attack units. Elementals, like worms, are slower than most of the high-powered units they would ordinarily stack with. This makes them very strong defensive units but of limited value on the offensive.

Devils are possibly the most useful single unit in the game. Powerful and fast, they have devastating effects on enemy stacks: all non-hero, non-city bonuses ate temoved from a stack facing a devil. This can halve the effective strength of an enemy stack. Devils are ideal for all combat activity. offensive and defensive.

Archons vie with devils for utility. Strong and quick, archons negate all heto bonuses. A stack with a devil and an archon is a formidable opponent, and excellent for killing enemy heroes. Their flight capability makes them flexible over any ter-

Dragons are the single most fearsome cost. You generally do not have enough heroes unit Warlords 2 can boast. Second in speed only to wizards, only the strongest heroes can meet (but cannot exceed) temples. Whenever the opportunity to pur-

their basic combat value. Giving all units chase a hero arises, take it stacked with them a +2, dragons can be the key component to any killer stack. Don't waste your dragons defensively; use them offensively in conjunction with lighter troops to lay waste to your enemy's armies. Their wings

make them excellent overseas troops. Heroes are the lifeblood of your army. Attacking stacks should be led by a hero whenever possible, and enemy heroes should be eliminated at almost any to use them defensively; try and keep your heroes on the attack or out exploring ruins and

We Shall Meet Again, Warlord

Next time, we will take a look at how the combat system works, (or, why your hero keeps getting killed by the enemy's light infantty), how the stack strength calculation process works (or, how to wipe out an enemy country with a dragon, a unicorn, a preasus, and five scouts), and other ways to reduce your

222

1.82

enemies to hamburger. row



Table 1 - Unit Attributes

rain

Dragon

Atmy	Unit Strength	Special Strength	Time	Cost	Unit/Turn	Strength/Turn	Special Strength/Turn	Cost/Strength	Cost/Specia Strength
Scout	1	1	- 1	2	1.00	1.00	1.00	2.00	2.00
Bat	1	1	- 1	5	1.00	1.00	1.00	5.00	5.00
Light Infantry	2	2	1	3	1,00	2.00	2.00	1,50	1.50
Orc Mob	2	2	2	4	0.50	1.00	1.00	2.00	2.00
Light Cavalry	2	3	2	8	0.50	1.00	1.50	3.00	2.00
Catapult	2	2	4	18	0.25	0.50	0.50	8.00	8.00
Heavy Infantry	3	3	2	5	0.50	1.50	1.50	1.67	1.67
Archers	3	4	2	7	0.50	1.50	2.00	2.33	1.75
Dwanes	3	4	2	7	0.50	1.50	2.00	2.33	1.75
Prkemen	4	5	3	5	0.33	1.33	1.67	1.25	1.00
Heavy Cavalry	4	6	3	8	0.33	1 33	2.00	2.00	1,33
Wolfriders	4	5	2	8	0.50	2 00	2,50	2.00	1.60
Glants	5	5	2	10	0.50	2.50	2.50	2.00	2.00
Minotaurs	5	6	2	10	0.50	2.50	3.00	2.00	1.67
Spiders	5	7	2	12	0.50	2.50	3.50	2.40	1.71
Pegasi	5	6	3	12	0.33	1.67	2.00	2.40	2.00
Griffins	6	8	3	15	0.33	2.00	2.67	2.50	1.88
Unicoms	7	8	4	15	0.25	1.75	2.00	2.14	1.88
Elephants	8	8	4	15	0.25	2.00	2.00	1.88	1.88
Wizard	6	7	4	12	0.25	1.50	1,75	2.00	1.71
Worms	7	8	4	12	0.25	1.75	2.00	1.71	1.50
Undead	7	8	4	12	0.25	1.75	2.00	1.71	1.50
Demon	7	8	4	15	0.25	1.75	2.00	2.14	1.88
Elemental	8	9	4	15	0.25	2.00	2.25	1.88	1.67
Davil	8	9	4	15	0.25	2.00	225	1.88	1.67
Archon	8	0	4	20	0.25	2.00	2.25	2.50	222



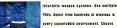


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EIGHT-BALL DELUXE: Pinball Wizards and all other denizen of pool halls, beer halls, bowling alleys and backroom arcades will find a lot of high-scoring action in Amtex's second pinball game. One look at the game's fearures. documentation, and packaging extras reveals the designer's true love, perhaps even fanatacism, for the topic. In the box one finds a real flipper and steel pinball, a manual with a detailed history of the pasrime, a section on general pinball strargey, and a break-down of the specific machine's scoring possibilities. In the midst of all these googahs one can almost forget the game, which is a fine rendition of an actual Bally's machine, The screen only shows one-third of the playfield at one time. but scrolls smoothly with the ball's acrion; the only flaw might be that one has to guess at some skill-shots because of the limited view. From the main screen-a cafe patronized by a digitized cowgirl in clinging denim-the player can glance at a Top Ten chalkboard, preview the next two Amrex games, and even get behind the machine to tinker with its settings, changing the playfield's slant and bumpet power to personal raste. As a whole, this is a lovingly created package that is sure to send pinball fans into bonus overtime. IBM, Macintosh (\$49,95). Circle Reader Service #2.



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FRACTUNES: If you were in with the In Crowd during the 60s, you may have run across the Light Organ, a device that emitted colored light in response to music (usually while the audience ingested felonious botanicals). The 90s response to this 60s invention is a cup of coffee and FracTimes, a program that alters the colors of fractal images to rhe beat of any AdLib, SoundBlaster or Midi sound file. If you own a Midi instrument, you can even take control of the show and creare your own sight-sound psychedelics. The package includes 250 sound files, 150 fractal images, and tools with which you can creare intetesting slide shows. While the execution of the "Light Organ" falls a bit short of expectations (it's just not as near as the concept), it may still be an interesting tool for the creative fractal hobbyist. IBM with CD-ROM. (\$49.95). Circle Reader Service #3.

Broderbund Software, Inc. 500 Redwood Bivd. PO Box 6121 Novato, CA 94948-6121 (415) 382-4400

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Lord of the Rings, Enhanced CD-ROM

HOLLYWARE Entertainment 13464 Washington Blvd. Marina del Rey, CA 90291 (310) 822-9200

GEAR WORKS: Here's a puzzle game that runs like clock-work. By placing gears on pegs in the cortect sequence, the player can buil time pieces from different parts of the world. As if the spatial puzzles weren't hard enough, the player must also race the clock and avoid two villainous birds (actually "puffins"). One puffin tries to knock the pegs off the board while the other will rust the gears if given a chance. As defense against these fewl deeds you can shoot the puffins off the board, or oil the gents they have rusted, but there's no way to replace missing pegs. You can also use bombs to clear up your own missteps. Success earns points, and if you get bonus gears you have a chance to yank the limb of a "onearmed bandit" and try for more points or bonus items. While an interesting brainbanger, the documentation doesn't ouite agree with the actual game play. Amiga and IBM (\$49.95), Commodore 64 (\$39.95). Circle Reader Service #8.

1COM Simulations, Inc. 648 S. Wheeling Rd. Wheeling, IL 60090 (708) 520-4440

UNINVITED: Fans of the gothic horror genre who don't mind playing a graphic adventure with closer ties to the simpler, older titles of the past may enjoy this Windows version of ICOM's classic adventure. Though this graphic puzzlet offers a teturn to the less complicated quests of days past, the potential player should not think that this translates into an inferior product. On the contrary, the Windows conversion of Uninvited captures all the atmosphere and enjoyment of the earlier releases and enhances play by providing a high resolution, mouse-and-menu-driven interface employing full 256-color images and smooth spot animations. Windows sound support is also provided for digitized sound effects, including requisite thunder, screams and howls. So, if the player is up to the challenge of uncovering the mystery of House Abtaxas, Uninvited will provide a good dose of ghastly fun. Just pick up everything that isn't nailed down and watch out for this swarthy Southern Belle: She's no lady...at least not anymore. IBM with Windows

Interplay Ptoductions, Inc. 17922 Fitch Ave. Irvine, CA 92714 (714) 553-6655

(\$49.95). Circle Render Service #9.

LORD OF THE RINGS, ENHANCED CD-ROM: Frodo never had it to good, at least not until the enhanced CD-ROM version of The Lord of the Rings spun off from Interplay, Featuring 25 minutes of Gootage from the Ralph Bakshi film (playing in the arrest full-motion video window of am en-

How Could We Ever Improve The World's Best Selling Chess Program?

Computer chess enthusiasts will tell you that the software 'engine' is what determines the true power of a chess program.

The new 'turbocharged' 32-bit engine in The Chessmaster Version 4000 is based upon the engine that won the 1992 World Computer Chess Championship in Madrid, Spain. Taking advantage of the 32-bit processing capabilities of 386 and 486 processors, chess for the PC has reached a new level of

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excellence

tertainment niek en daze), over 40 minutes en bijen quilipt OD audio sound effects mit of minute of the properties of th

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

MICROSOFT GOLF FOR WINDOWS. MULTIMEDIA EDITION: Golfers wishing to refresh their game, at least visually and audibly, may find this new edition of Microssoft Golf to be just their cup of "tee. Among the enhancements offered in Microsoft Golf for Windows, Multimedia Edition is the ability to call up a video "flyby" of each hole, similar to that provided by relevision solf coverage. This flyby provides the player with an overhead view of the particular characteristics of each hole. Requesting a "tip" before taking a shot allows the player to "consult" with a video golf pro and gain some helpful on-line advice. More detailed instruction is also available through on-line video demonstrations of stroke technique. Sound capabilities have also been enhanced, allowing the desktop golfer to select and assion their own sounds to specific golfing events. Both male and female commentators are available, and the player can add their own audio comments, too. Other features include instant replays of each shot, playing with up to eight partners, and a driving range and putting green for practicing one's shots. IBM with Windows and CD-ROM (\$64,95), Circle Reader Service #11.

Multicom Publishing, Inc. 1100 Olive Way, Suite 1250 Seattle, WA 98101 (206) 622-5530

AMERICANS IN SPACE. Amethir aerus annua en after licter to the sam with Multicom. Publishing is American in Space, space ceptoration program. Included on this CD-ROM disc is a complete video and phatographic tour of America's space program loganing with the endy experimental necker hospathic tour of America's space program loganing with the endy experimental necker that the mission. Project and missions can be tracked in chronological order or accessed by tracked in chronological order or accessed by tunch date. The "Mission Control" style interface supports zerons of photographis and viewer. With more than 500 photographis viewer. With more than 500 photographis.



Microsoft Golf for Windows Multimedia Edition



Americans In Space



Time Traveler CD



More Vegas Games



The Silver Seed

images, over an hour of full-motion video and narration, and text descriptions of every American manned space mission, American in Space offers an entertaining and educational adventure for the whole family. (\$69.95). Circle Reader Service #12.

New Media Schoolhouse 390 Westchester Ave. Pound Ridge, N.Y. 10576 (800) 672-6002

TIME TRAVELER CD: We have CD'd the future of History, and it is ROM. Here's a history of the world, from 3900 B.C. to 1992 divided by five geographical regions and three categories: history, culture and innovation. The Time Traveler interface lets you select a year and iump to it with the "GO!" button, or search a time by subject. Every period features at least one attractive, photoquality image, some accompanied by a short caption, to illustrate a brief text description of that year. The CD is billed as "A Multimedia Chronicle of History," yet features no animations, and only a smattering of audio clips. And though the overall package is well-polished, someone should have noticed than Jackie Robinson couldn't have been "Wookie of the Year" in 1947, 30 years before Star Wars, A decent program, but we're not sure you couldn't get more book for less bread. Macintosh with CD-ROM (\$159). Circle Reader Service #13.

New World Computing, Inc. 20301 Ventura Blvd., Suite 200 Woodland Hills, CA 91364 (800) 325,8898

MORE VEGAS GAMES: Wannabe gamblers who like to play it safe, where the only 'high stakes" are one's time and enemy, will find New World's More Vegas Games an enjoyable mix of traditional casino games for Windows, Designed by The Dreamers Guild and featuring high quality graphics (in 256-color, high resolution Super VGA) and excellent digitized vocal samples (for both male and female dealers), this collection of five casino favorites will assist the player in beating the odds at Craps, breaking the bank at Video Poker and Blackjack, winning and placing at Horseracing, and hitting it big at Baccarat, Each of More Veges Games' offerings is a multi-player version of the famous pastime. allowing digital gamblers to play alone against the computer or with up to three additional players. Assisted by pertinent on-line help, More Vegas Games offers a Window to bet at (and for pretry low stakes). IBM with Windowr (\$29.95). Circle Reader Service #14.

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

THE SILVER SEED: Snaking its way from Lord British to *Ultima* players everywhere is the latest add-in module for *Ultima VII Part*

Fun and More!

une into Planet Kldz for all the radical new video games and the best in computer software. We'll show you smart game strategies and computer tips that will put you in electronic orbit.

And there's more...each Saturday at 4:30 (et) you'll find all the latest in fun food and fashion on Planet Kidz.

Keep your innermost thoughts stored on your Electronic Magic Dianyl You can lock it, too, so no one else can read it! Use your Magic Diany for keeping all your friends phone numbers and faces (you create). You'll want to get your alily Horoscope, and find out from the Electronic Match Maker how well you get along with that special someone... It's as cool to use as it looks!

Mental Math Games is a dazzling way to integrate math into games! There's several to choose from... Maze Game, Moon Flight, Math Match, Raccoon Race, Mental Block, Fraction Fish, and Tip-a-Duck! These exciting games introduce addition, subtraction, multiplication, fractions, decimals, percents, and division skills via games and animation!

You'll love it!

Saturday November 20th at 4:30pm (et) on CNBC.



Two: Serpent Isle. The Silver Seed allows those still in Serpent Isle to discover new quests (which take place in a mysterious, war-torn past), explore another land and acquire additional magical items to employ within the game proper. These new adventures can be embarked upon at any point in the original game, enabling the player to increase his chatacter's power and experience. New features at the Avatar's disposal include a magic key ring upon which keys are placed as they are acquired, and from which they are used as needed. Also provided are the Belt of Strength, Gauntlets of Dexterity, Erinon's Magic Axe, the Helm of Light and the Ring of Shal (a source of endless reagents). Other niceties include single button commands for feeding party members, employing the magis key ring, telling time and picking locks. The accompanying Play Guide offers the player maps and solutions to the new quests. The latest version of Serpent Isle is included. UItima VII. Part Two: Serpent Isle is requited. IBM (\$29.95). Circle Reader Service #15.

Psygnosis, Ltd. 675 Massachusetts Ave. Cambridge, MA 02139 (617) 497-5457

ARMOUR-GEDDON: Once again the future is painted dark and steeped in devastating warfare. After the Balkan War of 1997 devastated the earth, two factions survived which developed into hostile surface dwellers and a subterranean society. As a member of the underground dwellers, it is the player's tesponsibility to defend his or her society from the marauding survivots on the surface and, ultimately, to destroy their supteme weapon, a deadly laser cannon, before the undetground is vaporized. Basically a combination of flight sim and areade action, Armour-Geddon offers the player solo play against computer opponents or head-to-head serial link permitting two EDEN warriors to launch a combined attack on the surface scum. Gathering and assembling components into an ultimate weapon are key to success in this post-holocaust game of action and strategy. IBM (\$49.99). Circle Reader Service #16.

SDJ Enterprises, Inc. 1551 Fawn Valley Dr. St. Louis MO 63131 (314) 966-5602 (Evenings only)

DRACULA IN LONDON: Based on Bram Stoker's original novel, this modest vampirish tale involves tracking down the infamous Count Dracula, reported to be hiding somewhere within the confines of London. Assuming the tole of Ptofessor Van Helsing (or one of five other vampire hunters), the player must put an end to the Count's bloodlast. Too many mistakes, however, and one will certainly cross over to the land of the living dead. Designed for Windows (acceptable, but by no means flashy) and definitely more a game of thought than action, possessing the feel of a board game in play, Dracula



Armour-Geddon









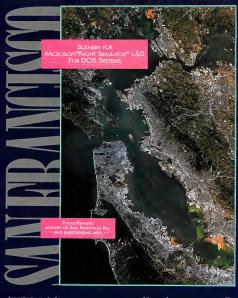
in London's greatest appeal will be limited primarily to vampire and sorbic borror buffs Each game takes about an hour to play depending on the number of players involved up to six, though two to four are recommended). The game claims to have been designed in an "unstructured problem" format, so that what works in one game may not work in the next. So, if the idea of tracking down Dracula over and over again with slight variations is appealing, Dracula in London may work for you. Those who enjoy longer, more traditional quests may want to stake out some different territory. IBM with Windows (\$29,95). Circle Reader Service #17.

Silicon Alley 8693 Wilshire Blvd., Suite 215 Beverly Hills, CA 90211 (310) 289-1237

NO. 11 DOWNING STREET: Non-lincat storytelling is the key concept behind Silicon Alley's first episode in The Adventures of Ninia Nanny and Sherrloch Sheltie series of interactive fiction. Branching storylines and ancillary information enhance the learning value of this title. Available in versions for both Level 1 and Level 2 MPC systems, No. 11 Downing Street introduces children to two unusual characters, Ninia Nanny (a mischievous cow) and Sherrloch Sheltie (a budding computer criminologist). Designed as a series of chapters, this literary adventure features linked "hotwords," animated sequences, enhanced video and music, and museum-quality antique dip art. Help Ninja Nanny and Sherrloch Sheltie defeat the plans of the evil Baron Von Moribund and learn interesting new facts at the same time. However, make sure to purchase the correct version. The MPC Level 2 product is vittually unplayable on Level 1 systems, IBM with Windows and CD-ROM (\$69.95 for MPC Level 2, \$34.95 for MPC Level 1). Circle Reader Service #18.

SilverSun. Inc. 100 Jersey Ave., D-1 New Brunswick, NJ 08901 (800) 8-silver

CROSSWIRE: Think back to a High School History exam. Anyone who can smell the stench of mimeographed paper may also remember the "matching" part of their History tests. This was where a list of names or dates appeared in one column, and a list of related information appeared in the other. The object was to match the item in the first column with the corresponding item in the other. Okay, now teturn to the present and think of a computer "game show" program that plays in the same manner of that History exam. Pretty exciting, eh? Well, in CrossWire! it's actually kind of fun. One competes against an artificial opponent who has inherent strong and weak areas of knowledge. Qualifying rounds must be completed each game in order to compete in the final round. While the pressure of the clock makes for tense









zles all worthwhile. IBM with Windows (\$39.95). Circle Readet Service #19. SoftStream International 10 Twin Ponds Dr. S. Dartmouth, MA 02748-1166

players, the bizatre game show host and off-

the-wall prizes make solving the 4,000+ puz-

(800) 262-6610 BLAZE: Those who still enjoy running around a little maze gobbling up pills will probably find SoftStream International's Blaze, a full color Pacman clone for the Macintosh, appealing to their taste buds. The goal of this rather simple areade game is to guide a drop of water through a maze while putting out small fires in its path. Howevet, some local "butnouts" are determined to turn the player's hetoic little droplet into vaporized H2O. As such, there is no recourse but to head for the neatest fire hydrant and cool down the overheated opposition. A very cute and modestly addictive (though somewhat overpriced) game, Bloze offers Mac owners some classic desktop entertainment. Macintosh (\$59.95). Circle Reader Service #20.

MICROCOSM II: Another Mac game from SoftStream, Microcorn II is designed to appeal to the more strategically-minded player with quick reflexes. In this 16-color title, gamets adventure into the microscopic world of viruses and DNA controlling a minuscule tobot reminiscent of Wesley Crusher's Nanites from Star Trek: The Next Generation. The object of Microcasm II sees the player maneuverine his or her robot around a maze. shooting DNA-filled pills at spawning and mutating vituses in an effort to free the system from the viral threat. In the process the player must collect computer chips that will enhance their robot, adding special functions to incresse their effectiveness at viral annihilation. A level editor has also been provided, allowing gamers to create their own mazes. Macintosh (\$49.95). Circle Reader Service #21.

OPERATION INTERCEPT: The third of SoftStream International's recently released titles. Operation Intercrat brings Galaga (and ies numerous clones) to the Mac deskton. As the story goes, the player's solar system has been invaded by an evil heatd from the Spoox Empire. The opposition is great, but the stellar pilor is certainly up to the task. Piloring one of several fighters, the player must destroy wave after wave of attacking enemy vessels, all intent upon his or her complete and utter destruction. Destroying an entire attack wave provides one with a special bonus item than can be spent at the upgrade-repair stations to improve ot repair one's ship, adding such options as double- and triple-shot lasers, spawn-shot, special shields and more. A Challenge mode has also been provided, allowing two players to fight the opponents head-to head. Macintosh (\$59.95). Citcle Reader Service #22.



Micancorm II



Operation Intercept



Space Shuttle



V For Victory: Gold+luno+Sword



PC Graphics Animation Festival (Volume 1)

The Software Toolworks 60 Leveroni Ct. Novato, CA 94949

(800) 234-3088 SPACE SHUTTLE: This true multimedia product will sour right to the heart of space exploration lovers. Climb into the cockpit of any past Space Shuttle mission and blast off to deploy satellites and conduct experiments. Space Shuttle offers a tour of the Johnson Space Center, including NASA footage, photos, diagrams and video. A number of intriguing, though pixelated, videos show what it's like for the astronauts to live, work and sleep in space. The audio portion of the program is professionally written and narrated. A Personal Digital Assistant-style interface offers a unique and simple method of getting around. There's even a quiz-style same for testing your Space Shuttle knowledge. Overall, an exquisite-looking offering, though low on the gaming factor, IBM with CD-ROM (\$49.95). Citcle Reader Service #23.

Three-Sixty Pacific, Inc. 2105 S. Bascom Ave., Suite 165 Campbell, CA 95008 (800) 653-1360

V FOR VICTORY: GOLD-JUNO
SWORD. In this fourth, and perhaps final
installment of the popular V for Vietro years
SWORD. In this fourth, and perhaps final
installment of the popular V for Vietro years
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MRI (\$54.95). Gilde Roader Service 2.9.

Wizardware, Ltd. 918 Delaware Ave. Bethlehem, PA 19105 (800) 548-7969

PC GRAPHICS ANIMATION FESTI-VAL (VOLUME 1): Those who enjoy computet graphics may want to take a look, and listen, at Wizardware's CD-ROM collection of computet animations, many with Sound Blastet soundtracks. Operation from both DOS and Windows is supported: VGA graphics and hard drive are required. Unforturnately, only those with cutting edge systems (486 or better with double-speed CD-ROM drives and 4MB or more RAM) will be able to enjoy these animations at anything greater than grass growing speeds (on 386 systems with single-speed CD-ROM drives it can take several minutes for each animation to load). While quality is mixed, there is a good selection of animations to view on disc, including scenes from Lawmower Man and Steam, plus a 3-D "vittual reality" game. IBM with CD-ROM (\$39,95), Circle Reader Service

MPLITER GAMING WORL

The games in Computer Gamine World's Hall of Fame have been highly rated by our readers over time. They have been rated for their impact on the computer gaming hobby during their peak period of influence and acceptance by our readership. Note that the dates listed for each game are the copyright dates and may precede the actual release dates. Specific formats listed are those which CGW has in its possession.

The Bard's Tale (Electronic Arts, 1985) Many Formats

Chemister (The Software Toolworks, 1986) Civilization (MicroProse, Inc., 1991)

Amina, IBM, Macintosh Dungean Master (FTL Software, 1987) Amiga, Atan ST, IBM

Earl Weaver Baseball (Electronic Arts, 1986) Amige, IBM, Macintosh

Empire (Interstel, 1978) Amiga, Alari ST, C-64, IBM F-19 Stealth Fighter (MicroProse, Inc., 1988)

Gettysburg: The Turning Point (Strategic Simulations, Inc., 1986)

Arriga, Apple, C-64, IBM Gunship (MicroProse, Inc., 1989)

Arriga, C-64, IBM Harpoon (Three-Sixty Pacific, 1989)

Arriga, IBM, Macintost Kampfgruppe (Strategic Simulations, Inc., 1985) Mursy Formats

King's Quest V (Seerra On-Line, Inc., 1990) Amiga, IBM, Macintosh

M-1 Tank Platoon (MicroProse, Inc., 1989) Amios, IBM

Mech Brigade (Strategie Simulations, Inc., 1985)

Might & Magic (New World Computing, 1986) Amica, Apple, C-64, IBM, Macintosh

M.U.L.E. (Electronic Arts, 1983) Atari 8-bit, C-64

Pinates (MicroProse, Inc., 1987)

Railroad Tycson (MicroPress, Inc., 1990) Arriga, IBM, Macintosh

Red Baron (Dymamis: 1990) Arriga, IBM, Macintosh

SimCity (Maxis, 1987) Many Formats

Sterflight (Electronic Aves. 1986) Amiga, C-64, IBM, Mac, Sega

Their Finest Hour (LucasArts Entertainment Company, 1989) Amiga, Atari ST, IBM

Ultima III (Origin Systems, Inc., 1983) Amiga, Apple, Atari ST, C-64, IBM Ultima IV (Origin Systems, Inc., 1985)

Amiga, Apple, Atari ST, IBM Ultima VI (Origin Systems, Inc., 1990)

C64, IBM War in Russia (Strategic Simulations, Inc., 1984) Apple

Wasteland (Interplay Productions, Inc., 1986) Apple, C-64, IBM

Wing Commander (Origin Systems, Inc., 1991) Amsga, IBM, Sega Wieardry (Sir-Tech Software, 1981)

Zork (Infocom, 1981) Many Formats

Railroad Tycoon MicroProse, Inc., 1990 Amiga, IBM, Macintosh



the most titles in the CGW Hall of Fame. One of the reasons for this is because he refuses to be stuck in a game design rut. Instead, he looks for new subjects and new approaches. Inspired by a combination of admiration for SimCity and a love for model railroading, Railroad Tycosu suc-cessfully blends elements of a "software toy" and a name of economic competition into something new and vital.

> Red Baron Dynamix, 1990 Amiga, IBM, Macintosh



Red Baron may well be Damon Slye's masterpiece. Damon is the designer/programmer who has been pushing the edge of 3-Space since his first vectored graphics game of space-age tank combat, the original Stellar 7 on the 8-bit computers. At Dynamix, Damon moved the company through the Skyfox and Airfex series of 3-D action games (published by Electronic Arts) and on toward their current success with A-10 Tank Killer, Red Baron and Aces of the Pacific.

Red Baron not only features terrific graphics that dress up the traditional polygon-filled look with occasional hit-mans and shading, but offers campaign play from both sides, the largest selection of aircraft in a WWI sir combat simulation, and a multitude of quick-combat missions. It is a rich, satisfying simulation that not only held a prominent position in the top ten of CGW's Top 100 for more than a year, but still stands as the high watermark of realistic air combat for many gamers

Deader Poll #110

Top Adventure Games Day of the Tentacle Monkey Island 2. Le Chuck's

Top Role Playing Games

Top Simulation Games

ces of the Pacific

Might & Magic III Soh Command lar Control III

Paping War Variords

Top Strategy Games

ecret Weapons of the Luftwal ost Fles of Sherlock Holmes As Manh in: Lost in L.A.

Top 100 Games

Ang Commander II he Seventh Guest

inks 395 Pro

WG.ST

onkey Island 2: Le Chuck's Rovenge

Spectrum HoloByta Three-Sorty Pacific hree-Sixty Pacific Sectionic Arts

For Victory. Market Garde

lest for Glory III

Menstern 3-D

for Victory: Utah Basic nerfock Holmes CD Bring Underworld III ne of the Beholder

AB, Ox

New World VOVMLOOK

Oree-Sorty Pacific amers at War Construction Kit fight & Magic: Clouds of Xeer

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Hong Kong Mahjong Pro



Castle of Dr. Brat

World Poll Compute

PC Research Hits List Of Top-Selling Software

July, 1993

PC Games (MS-DOS)

Title and Source
X-Wing Imported Pursues (LinearArts Entertain
X-Wing (LinearArts Entertaintnenn)
Bettraysi at Konador (Stera On-Lane, Inc.)
Peritata Gold (MotorPore, Inc.)
Syndhatea (Electronic Arts)
Tornado Spectrum Holdolyes, Inc.)
Tornado Spectrum Holdolyes, Inc.)
Linka M6 Pro (Arous Softman, Inc.)
Hardbill III (Mocoides Inc.)

Mijsha & Magile: Dark Side of Xeen (New World Compuning)
Wolfenstein 3-D/Spear of Destiny (Formgen)
Prince of Persia II (Booderband Software, Inc.)
Links - The Bellity (Access Software, Inc.)

Links - The Beitry (Access Software, Inc.)
Railroad Tycoon Deluxe (MicroProse, Inc.)
Flashback (Strategic Situalations, Inc.)
Take A Breald Pinhall (Sierra On-Line, Inc.)
Sign(Strategic Software)

Links - Mauna Kes (Access Software, Inc.) Realms (Virgin Interactive Entersamment)

Amiga Games
Tide and Sourc
688 Attack Sub (Electronic Aus)
A-Train (Maxis Software)

Lemmings II (Psygnosis, Led.)

AD&D Gareway to the Savage Ferrori (Strategic Simulations, Inc.)

Medleval Warnots (Merit Software)

Macintosh Games

Prince of Persia (Broderbund Software, Inc.)
Microsoft Flight Simulator (Microsoft Corporation)
Sim City Supreme (Maxix Software)
PGA Tour Golf Felsermin Arts)

CD-ROM Products

2. ROMaterial (Moos Valley)
3. MPC Wizard (Aris Entertainmen)
4. King's Quer VI (Stern On-Line, Inc.)
5. Indiana lones and the Exten of Atlantis (LurasAris Esse

Corel Art Show (Corel Corporation)
Compton's Encyclopedia Upgrade (Compton's New Media
Cinemania (Microsoft Corporation)

10. Jer Pack F117A/F15II with Scenario (MicroPrese, Inc.)

What You've Been Playing Lately

age, musch out millers halpes with hundreds of Reader Input Case one our most loyal and composite medica. Over the years we've founce there earls to be an invaliable source of feedback. This column is a feature for the results of our "Playing Larely" query on the Reader Input Card. Thanks for eaking the time to fall them out. Livery 'cm coming!

Playing Lately? Results For CGW #

Benericar (Co. de (Co. amix, Inc.)
Civilization (de Co. Yuse, Inc.)
Lands of Lore (Westwood)
Falcon 3.0m/MiG-29 (Spectrum Holoby
Syndicare (Electronic Aris)
Might & Magic: Darkside of Xeen

Dune 2 (Virgin)
Clash of Storl (SSI)
World Circuit (MicroProse.

Even More Recipes From The Readers

short-answer query in some 109 asked gamers to act as Game Design

Recipe for Game a la Perfectitos (serves 500,000)

1 pun Sersegy of Circleanse
2 puns Perspective of Undraweld

2 parts Perspective of Underworld
1/2 part Physiq of Aser
Dish of Physics

Max the above in a basel made from the egg shells of Dejah Thoras & John Carter's first born. If necessary, add Rights from Burroughs errors."

- Anonymous, Denver, CC

the place to choose a squasion, plane type, and customize on's plane with name, markings, etc., and require the player to keep the plane maintained.

Name, Hyboys - The WWII Combot Pilor Simulator."

- Don Strath, Kingwood, TX

Com array, Empaced, 13
 pole-playing game with the overland perspective of Ultima 7, cut scenes like free Community II, durging perspective of Ultima Underworld 2, and with a

neral Anglophile score."
- Lord British, Austin, TX (sexually, possmarked Brooklyn, N

Take the graphics from Wayor Greedy Hockey 3 (one of the few things done light); the implementation, customer support, and un-game print capability of Suar Page Sporp Foodalt; the surfacted basis from True Hockey, and the season

- Marry Hrovat, Slydell, LA

First, I'd take the character generation from Worsdood, the fur-power from Guardy 2000, and the cell Empire of X-1009. Then, I'd mix in the death weres from Terramonto 2023, We'd need a couple of bugs from Ultima 7 (to keep the

- Anthony Felsani, Isdin, NJ

would commute the number of remain reasons who me geen groups of Nwing throw in a great racing similitie. Wirth Circuit and the always enjoyable. Links 300 Pm. I would call in Phasiny Phaemscius Philes and Drives Phendesly. Phast to the Tea."

- Jon Wilson, Landis, NC

The Patch File

These particles can usually be downloaded from most major networks (e.g., CompuServe or GEnle), but can also be obtained from individual software publisher's own BBS sor direct from the publisher with proof of purchase, We continue to urge publishers to keep us updated on the latest wershors/particles to their game.

(*** indicates new files)

Air Bucks Version 1.21: Corrects lock-up and mouse compatibility problems, 8/06/93

lems, 8/06/93 Ambush at Sorinor Version 1.02: Adds a speed control option for fast machines, replaces several bad mission descriptions, and fixes the Al for

VIPs and excers, 041/193

Battles of Destiny V1.1 Patch: Enhancements and bug fixes include: Patrol Mode, Map Editor, and two player modern enhancements, 5/06/93

Buzz Aldrin Roce Into Space Version 1.0b: Fixes a lock-up bug and allows

surez. Autorn foce into Space version 1.00e rises a lock-up bug sind allowithe embowal of some files from the hard drive. 700c(9)3 Guesa Petchi. Allows physes to use impressions: game with disk compression utilities, and correctes the "culture" problem. 5/18/93 Carriers at War Construction Kie Patch: Fires the "CAP" bue and a few

Onter the CAP big and a sew other minor problems. 7/13/93

Dune II Patch File: Fixes problems with the delivery of items from

CHOAM, 4/18/93

Empire Deluxe Version 3.1: This new version makes a myrind of feature chances and but fixes to Version 3.0, 4/30/93

F15 Strike Eagle III Version 3 Update: Corrects minor errors in carlier sersions. 4/25/93 Harpoon Version 1.32A Upgrade: Makes changes to the Harpoon game

system. 5/18/93
Imperial Pursuit Fix: In the original version, it can be difficult to lock-on to a target with missiles under certain system configurations. This patch

should correct this problem. 7/08/93 IndyJones/Atlantis Mac Patch: Corrects the "desert balloon" crash bug in the Mac version. 4/15/93

Indy Jones/Atlantis 486 Patch: Allows one to play the game on a 486 without color problems or errors. 5/26/93 Jordan in Flight SVGA Patch: Allows owners of Diamond Stealth, Diamond Stealth 26 and Orchid Fahrenheit 1280 Plas video cards to rutt the same in SVGA, 5/22/193

the game in SVGA. 5/21/93

Jump Jet Update: Corrects the joystick problems some players are reporting and some orbit compatibility problems. 5/18/93

**Kings Quest VI CD-ROM Patch: Fixes the problem with the disappeating ball in the Endless Desert Temple Stone Will trap, 8/24/93 **Lands of Lore Version L11 Patch: Corrects various problems including the Inability to retrieve Dasset's second key, 8/25/93

the inability to retrieve Dawn's second key, 8(25)(9)

*** Lands of Lore Sound Card Parch: Allows multiple sound cards to be used at one time. Now includes Waveblastet/SB16 support. You need this patch only if you use more than one sound card. 8/16/93

Omar Sharif on Bridge Upgrade (IBM/Windows): The latest version of Interplay's bridge game for Windows, 9/03/93
Pacific War VI.1 Upgrade: The official SSI upgrade to Gaty Grigaby's Pacific War VI.1 Upgrade: The official SSI upgrade to Gaty Grigaby's

Patriot Version 1.1: The long-awaited patch to Theer-Skrty's Gulf War simulation, 7(27/9) Finates Gold Patch: Corrects the "evil person in the city" crash, the "mission from the governor" crash, and the VI switch should now function as stated in the README file, 7/19/93

Realms of Arkania Disk 3 Fix: The first print run of this game was missing some data from disk 3. You only need this file if your BLADE directory has 48 files and 3,030,380 bytes in it. 6/23/93

Realms of Arlumia Update #1: Corrects the "Skeletarius" problem among others. 7/01/93

Rules of Engagement 2 Version 1.05: Latest version of the Omnitrend/Impressions' space war simulation. 8/01/93

** Rules of Engagement 2 Campaign Disk Update: Updates Campaign Disk 1 to version 1.01. This update adds 9 new Breach 2 IGS links to the campuign "Operation Hammor." This update is only useful if you're play-

ing the game in conjunction with Breach 2. 8/30/93

** Shanghai II Version 1.04 Update (Mac): Resolves incompatibilities with After Dark and SuperClock, and fixes a 25-bit addressing problem. If you are getting random crashes or freezes, this update is for you. 8/20/93

The Seventh Guest Fix: Updates sound cards drivers, installation program and player program (requiring only 450K memory). 7728/93

Tony LaRussa II Patch: Fixes bugs in SSI's baseball simulation. 5/21/93

Unlimited Adventures Version I.1 Patch: In addition to new files for the software, this patch contains a supplement to the game's manual. 5/21/93

"V For Victory 3.1 Upgrade (IBM): Upgrades Utah Beach, Velikiye Luki, and Market Garden Versions 2.0 to Version 3.1 8/19/93

V For Victory: Velikiye Luki Version 3.1 (Mac): Upgrades the Macintosh vession 2.0 to 3.1, 7/09/93

V For Victory: Market Garden Version 3.1 (Mac): Upgrades the Macingosh version 3.0 to 3.1.7004/95

** V For Victory: Gold Juno Sword Version 4.01 (Mac): Upgrades the Macingosh version 4.0 to 4.01.8728/93

The PRODIGY Weekly Top Ten

Comparer Canning, When his Predigy's on-line games expect. Look for us in their Genne Centra, stowar where some raid articles posted ontion of the control of the control of their control of their control her resided there at ENT/1003. The Prodigy Game Poll is may be Prodigo broad on a line of games provided by CGW and is updated wordsy. Note that it is not a cumulative rating over time (the tenwordsy). Note that it is not a cumulative rating over time (the tenwordsy). Note that is in our acumulative rating over time (the tentral of the control of the control of the control of the Neutron of the control of the control of the control of the Provide that draw not used as manufact between casting their ferrorised and provide that draw not used as manufact between casting their ferrorised and provide that draw not used as manufact between cast of which their provide that draw not used as manufact between the control of the provide that draw not used as manufact between the control of the provide that draw not used as manufact between the control of the provide that the control of the control of the control of the control of the provident of the control of



CONVERSIONS

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AMIGA:

A-Train Construction Kit (Maxis) Desert Strike (Electronic Arts) Syndicate (Electronic Arts) Virtual Reality Studio 2.0 (Domark)

MACINTOSH: Bridge Master (Capstone) Carriers at War (SSG)

King's Quest VI (Sierra) Lemmings (Psygnosis) Oh No! More Lemmings (Psygnosis) Where in the USA is Carmen Sandiego? (Broderbund) MACINTOSH CD-ROM: Patt-Putt Joins the Parade (Humongous Entertainment) Putt-Putt's Fun Pack (Humongous Entertainment)

MS-DOS CD-ROM: Eric the Unready (Legend) Eye of the Beholder III (SSI) Future Wars (Sony Electronic

Eye of the Beholder III (SSI) Future Wars (Sony Electronic Publishing) Great Naval Battles: North Atlantic 1939-43 (SSI) Putt-Putt's Fun Pack (Humongous Entertainment) Ultima Underworld I, Ultima Underworld II (Origin)

MS WINDOWS:

Deja Vu I & II (Viacom New Media) Empire Deluxe (New World Computing) Sim Life (Maxis) Solitaire's Journey (QQP) Uninvited (Viacom New Media)



Oh No! More Lemmings



Carriers at War



Empire Deluxe

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