

REDMBAT





sa tha BEST New Combat Sims! 165 to Make You an Justimit Acel



REAL

"When you gaze into the abyss, the abyss also gazes into you."

-Nietzsche



"The best looking game of all time." NEXT GENERATION



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"The most sophisticated 3D engine...the best 3D architecture and the most realistic textures yet seen on the PC."

PC GAMES



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"The world may never be the same after Unreal is unleashed." boot

your senses expanded

vour fears unleashed

Junned

your reality altered...

forever

fall 97



Primed for Pentium

Maximized for MMX Technology





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COMING THIS SUMMER

HARDBALL 6 A WHOLE NEW BALL GAME!

"One of the top five most anticipated new titles of 1997"

George Jones, C/Net

"HardBall 6 looks hot... the biggest HardBall by far"
PC Gamer

FEATURING

Enhanced Fielding Model
Over 30 fully rendered 3D stadiums
Custom League and Schedule Generator
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Haad-to-Head Action via Network, Modem and Serial Cable
The Port, minor, Free-avent, trading, active and disabled lists

ACCOLADE

Register on-line to receive the latest updates and information on HerdBall 6 at:









CHANGE THE WAY YOU

GAME

Ever "played" one of those games that forces you to sit through a bunch of completely, non-Interactive film clips? You know, the ones that kidnap you from the action and shove

bad acting down your throat?



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Introducing SouthPeak Interactive's Video Reality.11 It isn't a game, it's the driving force behind a new breed of games. Immerse yourself in 360° of insanely realistic, completely seamless, motion picture-quality gaming.

Coming soon to these CD-ROM games:





COMING FALL 1998



state world's foremost fingling am producer, andy felitis. It as been guiding a team at Origin Stanshown's in creating a highty in creating a high part of the producer of

Air Combat Summer

amaze vou

Part One

Heads up, fly-boys—
there's a squadron of tight sims headed your way this year. Beginning this issue (and continuing next month), we'll preview all of the top guns taking to the sides in '97, Strap in and ext models or side off.

HARDWARE

Sound Cards 12/ A quality sound card is a necessity for every sorious game—especially those that like to be that they for the thing to the thing to

3D Audio

128 What's all this hoo-hah about 3D audio? In this article, Technical Editor Dave "Poindexter" Salvator dons his lab coat, polishes his pocket protector and steps to the front of the class

lasts out with five new sound cards nd separates the live from the jive. Hardware Reviews

134 Falcon Northwest Mach V

STB Nitro 3D board
NV-Flash 3D board

FULY 1997



Ultima Online X-COM: Apocalyose >

Decisive Battles of WWII: The Ardennes Offensive Man Of War



GAMER'S EDGE

CGW's Right School Interstate '76 Strategies > Discworld II Magic:



COLUMNS

Hardware

Sports



Strategy/Wargames Martin Cirulis

275 Patch 78 Top 100 Col. Terry Coleman Spies a Risima Son in Prope County What's the Deal With Sick Ads?

Loyd Case's Ten Essentials for Computer Troubleshooting.

is "Flamebuit" McCauley Shares His

DEPARTMENTS 12 Johnny Wilson The 4th Quarter Syndrome is Hur 22 Letters 28 READ.MI

REVIEWS

F/A-18 Hornet 3.0 h



RATEGY/WARGAMES

ed Alert Counterstrike Fragile Alliance

Admiral Sea Battles

Steel Panthers II Campaign Disk

Age of Rifles Campaign Disk

ADVENTURE/ROLE-PLAYING

The Last Express Yoda Stories



ACTION

Outlaws |

Cyberdome Test Drive: Off Road



PUZZLE/CLASSICS

You Don't Know Jack Movies Othello b



SPORTS

NCAA Basketball Final Four 97



Summer Sim Sweepstakes!..... pg. 165





Audian pit to boloter

Joseph Front

Against chomy recourses

to and missions

PREPHRE FOR THE REIGN



STRATEGY WARS

ACTIVISION.









See the future this Summer.





ock. Then it's bye-bye until tomorrow. When I crush them in my monster truck.

K-WING* VS. THE FIGHTER*

Fighter Ace

I play:



W

W

a

U

Close Comba

Three clicks and I'm in pulling a real-time eyeball busting turn spraying lase

Microsoft

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s see my friends. In the targeting sight. I see them long enough to get a

Scrabble 110B .11080101W : Kejd j .BELREDA BILL 'SA . SNIM .X

blasts like spit because I like to go all out on everything. Except my wallet.



A Game for All Seasons

How 4th Quarter Syndrome Is Endangering Future Computer Games

pale a 250ml besider and pour in a 12 cance can of Cock-Colk Now, pour in the same amount of Popple Colk and Popple Colk and Roc Colk William and the can be same amount of th

Yet, this alleged science experiment isn't far from what is happening in the computer game industry. Too much of a product mix in an inadequate container is going to cause spillage. For years within the computer game industry, we've heard the laments about how diffout. shell space is to obtain. 'Mr. software publishers currently seem to be playing chicken with each other in that very littifled retail space. Most have latched onto the market research which indicates that more dollars are spent on computer games in the tourth quarter than in any other, and have decided to hold more products. than ever for the holiday season. On the tace of it. that's like saving that it's best to go fishing when the tish are biting. The problem is, . there are

only so many tish.

This strategy for putting the bulk of the product line out at during the Christmas season means that there will be more titles sying for the same amount of shell space. This means that not all of the filles stated.

for retail in the fourth quarter will actually birt the shelves, and that dis tributors and retailers will once again be able to demand exacting tribute from the publishers in the form of opposed five advertising and

marking development knote the 44 How many worthy products get buried under the holiday retail avalanche? 77

will turther out profit margins, continue to reduce the viability of smaller game companies, and obtuscate the cash than picture.

The film industry encounters this type of destructive market cycle every few years. As entertainment attorney Mark Litwek explains in his book on Hollywood, Real Power.

"The cycle begans when desinituloes become prosponies and start to produce more films, eventually gisting the municipalice. In such a buryer's market, exhibitions can obtain better firms, increasing their share of box collice resenues at the expense of the distributors. Production contracts failties, creating a soller's market, in which enhibitor clour wares. Distributors can then get better forms, eventually becoming prespectors and begin-

ning the cycle arrew * (p. 256) The consolidation taking place in the name industry is already causing many worthy projects to languish. This Fourth Quarter syndrome merely accelerates the hend. Research tells us that the average CGW subscriber buys two games per month (out of the approximately 20-25 new littles. released each month). Even if the CGW subscriber, the elite customer. was to double his purchasing nation. during the holiday season, that would mean only four games vertus the more than 100 expected in that time frame. In even an potentialic scenario. seasonality along means a reduction

mean only four games versus the more than 100 expected in that time frame in even an optimistic scenario, seasonally electron means a reduction in the percentage of new game titles hard-one gamess purchase from coughly 10 percent in crushy 4 percentar in a given moreth. Such a quick and diffy calculations shows that see-profety intil manufacular consider a grant provider is provided in a given moreth. Such a quick and diffy calculations shows that see-

heldedy-session releases. Fastisky Lided triber in the only garner who is insulated by the peticies whethe "all the good garners come out at once." Sure, there is course preties spin. Good garners often have a costial effect on the other garners which as on the stellers at the same lime. Set, cours they but sell test costal garners the Divaco and training. If it could provide a boost from being the only major releases in their timetarms. Plant course, beauty institutions. missed Cirrisimas, but set sales records furnestive: "16 might have been fost in a holiday season. It's a Spring Break concept of pure action released during Spring Break and it

received extra poline attention because it was the standout release. How many worthy products get buried during the holiday retriff audienchy? Companies would surely benefit from staggering their release schedules slightly but E3 reduces the odds of this happening. Everyone wants to showcase their "A" titles at F3, so bewers can spatch them up for the holiday season (and, so the press can provide the games with a big preholiday publicity buzz), which means the majority of lifes are cetting pushed to the end of the year This. can't possibly help production cycles. marketing plans, retail strategies, or

cash low on either side of the source. What can we 60? Pray for prod ut stippage? Thin with inporn repardless. Start a new tools show? It wouldn't be supported. Boycott produces at Constitute? We'd only hard outsolves. The best thing we can do to bear the destructive cycle is to support the good products refeased and odd times and make sure that we regis-

observative cycle is as support me good products released at odd times and make sure linat we register them, recommend them to our linands, and talk about them online. In that way, we might be able to break up the seasonal cycle enough to guarantee the regular low of good product %

Achimun nitting puts you in the skies in defense of Britain

September 1940: British coastal radar reports a Luftwaffe

squadron of Heinkel HEIIIs coming from the south and heading toward London. Another group of German lunkers IU87 dive bombers is approaching from the east.

Play against human opponents over the Internet or hotseat. Cross platform compatibility - PC to Mac and Mac to PC. · Computer opponent uses Avalon Hill's Over the Reich's"

excellent AI (Computer Gaming World) . Dozens of single Dogfights and Combat Missions, as well a challenging Tours of Duty.

. 5-levels of same difficulty: Work your way up from Lieutenant to General.

· Individual pilots rated for personal

experience and combat skills. · Video clips of actual war footage highlight events like takeoffs and engagements.

This is just one of the battles you'll fight in the shies over Britain and France. As a British Squadron Leader, you decide which pilots to scram-

ble and plot their course and altitude as you try to intercept German raids. As a German Sauadron Leader, you plan the aircraft compo

sition of each raid, and select its target, course and timing.

EXTRA!

Based on the awardwinning Over the Reich", rated 4 1/2 stars by Computer Gaming World . . . called, 'one of the best W.W.II games we've seen, period . . , Computer Games Strategy Plus







Fly out of the sun to bounce the raiders before they drop their bombs



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Take to the Skies With This Month's Demo Disc





s part of our special Air Combat issue, we have included demos of some of the hotelest flight sims currently available, as seed as a complete, playable wiscing of one of the solt flight sims of all time. Rivo Baeva, Whether you are an experienced virtual palo to you're new to the simulated skiess, whether your interests fee in man for man befaire displights or computer exastisted high test is buttless; you'll find leading of air-confluent action here.

Red Baron

Considerable by many gamers to be that best light simulation of all time, this game disnearly everything gain, intelligent externess and good flight models (file its day, legs the expenenced picts enthelless, and a wive variety of dishcuty) weeks helped thousands of inexpenenced gamers lake to the dise and lateral prompting has general, we've included the earther original Para Beach on the CG-POM this month.

Air Warrior II

Air Warrior II
An Wernen was the first experience many

of us had with multivayer garring. Years before the first wee of internet gaming type in the shreet, thou sands of users sport hundreds of olders a month on Girtle Joshina An

Internet gaming high er the merchant gaming high er the me

Wuseon Now the program is available in a

new version that includes not only online mis-

sions, but also hundreds of stand-alone solo

missions. The demo version on this month's

CG RDM will get you started on online play.

physics model. Break off part of the A-10's wing and see how it files, or see if you can bend the landing gear without breaking the plane.

F/A-18 Hornet 3.0 Hower may look deceptively sample with its

rowning look despinely sample with as beeing polygon graphites, but that graphs simpled by less you expanence smooth air combat at read tables up to 1026/098. And very liste about FFA 18 Howert 3,0 is simple. If has one of the most complete aircritis settings around, and you won't first all magar rated here. Be sure to check out the Read Min file for full information on operating the



jet's systems. Of course, if you can't wait to take to the skies you can ignore the instrument panel and just four the Evert Harbor area.

Flying Corps

Emptie's biptane sim puts you in the cockples of the famous Africa and Axis aces' planes, and its you fill your authentic European terrain and battle both air and ground stross. No radar or fast dimiting planes here—combat was pure pitt us, pitch in those days. The aircraft are beautiful, but the game uses a lot of horsepower, and is best on a Pertinin 1350 e tession.





INTERACTIVE STRATEGY GUIDE

The Ultimate way to conquer your favorite games.
Unlock the Secrets

Watch actual segments of the game in full motion video.



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THE SECRETS

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Wizard Wha

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GazeWizerts is developed by O1207 Secretificants, Inc. Manufeld by Wicon

to. All other independs are proported by the property of

evende has never been more ying— or fun. Activision's INTERSTATE '76 takes you across the border into a parallel unirse where '70s muscle cars come seecially equipped with 50-caliber M6 machine owns and frame throwers. The game, which uses the stripped down and ill Mean 2 engine, will appeal to action and sim fans alike. The non-rail ed 3D environment allows you to we the road for intense vigilante comwhile the realistic driving physics ve it that true racing feet. For those iching für an adrenaine rush, a dose ddictive Multiprayer artion via dem, LAN, or Internet is highly rec-mended. The missions are niense.

the action is fast, and the funk is straight from those 8-track days.

INTERSTATE '76



BATTLECRUISER 3000

of patches, the intamous BATTLECHUSER 3000AD is almost complete (and debugged). But is



BC3000AD a turn game? Check gut our exclusive demo-e fully functional, one-solar-system version of the program with the latest paiches incorporated.





Outpost 2 Sierra Online has completely regenerated the code for Ourvost 2, scrapping the original engine and rebuilding the new game from scratch. A vast Improvement over the first Outpost, this real-time strategy game combines the unpredictable forces of nature and karmic consequence for aggressive action with traditional resource management technology. The plot has also been revemped for Outpost 2. Your attempts at a new baginning on the previous planet went away and your group has now touched down on a new planet. However you'll soon discover that the world isn't as hospitable as you first believed. You'll raise new bases and colonies, and you will have to ferrid off the attacks of a rivel colony somewhere on the planet. Equal emphasis is placed on building and production. Prepare to test your combat and production skills in real-time in our demo.





Game of the Year

Role-Playing Game of the Year - Computer 6 Not Player

RPG of the Year - Computer Games Strategy Plus

Editors' Choice Award

- PC Gamer

"A" Rating - PC Games





ALL THE STRATEGY.



DOUBLE THE HUSTLE.

Tony La Russa Baseball 4" is the perfect doubleheader; complete baseball strangy now combined with faster gameplay and pro-modeled 3D graphics. Snag that acreaming line drive. Scare the ultimate pre-session draft pick. And see that diving patch from 26 different angles. Hundreds of stats help you mutch was against the 1996 Manager of the Year-or another player over a modern or LAN. From Spring Training to the Fall Classic, voo've got all the bases covered.













How To Use the Disc If you have Windows 55, the COI a Acting resulted—just look in Vedeo. Othermas, select fain from the Program Manager at Windows 52, will have been selected from the time of selected from the Coince of the time of the time selected from the Coince of the Coince of the Coince the Coince of the Coince of the Coince of the Coince of the Coince the Coince of the Coinc

Hew To Access Patch Files

Click on Patches under the CGW Realters. The text whodew has natividized on copying the fires to your hard drive. You can also access the patches from a DOS prompt by typing DVPPCNES and copying them descity to your head drive. We strong by recommend that you back up any

previously saved games before



installing a patch, as this may overwrite your existing program.

To Subscribe

son of he majorant, call (203) 665-6930. Il you already reche the majazen without the CD, you must wait, until your cursent subcorption express before requesting the CD-ROM version. Please address subcomption compliants to gow@models.com. Necessaria a majoran suffilment house witch is not owned or operated by ZTP Dalls.

JULY CG-ROM TITLES			
TITLE	PLATFORM	DIRECTORY	EXECUTABLE
A-10 Gebat	95	A100EMQ:	SETUREXE
AirWarrior 2 Online	95	AIRWAR2	AWZENLN
Baschel Maguil	83	BAMODRE	SETUBERE
BattleCruiser 3000AD	DOSIES	D/#C3K	INSTALL.EXE
Constructor	WIN	CONSTRUCT	CONSTRUCTION
DirectX 3	\$5	D:/DIRECTX	DXSETUPEXE
FIA-1E Homet 3.0	95/HT	MARKET	HOUSELEGE
Flying Corps	DES	FCORPS	INSTALLBAT
interstate '76	15	(76)	SETUREXE
Modern Age Electronic Strat Guides	95	EBEOKS	SETUREXE
Outpost 2	15	GPZ_DEMQ	SETUREXE
Patches	afa	PATCHES	ala
Red Baron	255 etc. 200	661	SETURBAC
Ten Pin Alley	95	TENPIN	SETUREXE
Time Warriors	35	TOMO MAG	DISTTIME.BAT
Versailles 168S	26/500	DEMO_US	INSTALL BAT
X-Com: Apocalypse	008/95	XDDAY	INSTALL EXE
You Dan't Know Jack Movies	WINUS	JACK	SETUPEXE





live months, one week, six days, four hours.



LETTERS

FREAKING OUT Martin Clindo' column on Psycho-Gods costainly hit occurs on both sides of the over-

tion. Here is a sampling of the ton of multiwe received on the hone.

I just secrived the May issue of GGW, and as always, you guys have done a great job While initially skinuming the issue. I finally neared the last page and read Martin Citals' monthly artiele. Lagues with many of Martin's points concerning those who make it a goal to min other's online for The out playing District myself because of the rampont chesting, and I completely agree that anyone who sets out to crawh a game is extremely immature. However, Hurre to take issue with Martin's

polytops of PSS /Planer Killers to you nearbles). To call a PK a "little freak" seems a bit bands, considering the fact that in a game Mic District one of the most intriguing respects is the danger mysleed, not only from nameagure demons, but from "exfl" players, In fact (stiff using DAMLO as an example), if you read Blusseds Web forums. you will find that Blessard has no plan to remove the phility to PK, as they consider it part of the same Remember this is GCWs same of the year we are talking about If the designers of said game felt that PKing was detrimental to the



encornent and mysters; they would have semoved the feature long ago. Don't get me wrong, cheating sucks, in does conlying servers, but PKing is something we are all going to have to live with in the online gaming world. Not all who kill other players me "sick little freaks." Some of us actually like to play the "bad gas." Admit it, you can kill ton thousand Storm Lords in Distro, but your adversible pumps like never before when a 49th level mage lets loose a fireball in your direction. So, you field. Maybe you live: maybe you die If you'live, you have a sense of pride If you die, you lose an ear and some gold,

offense to anyone intended here, I just went to set the record straight that not every PK is a 12-year old fool. And for those of you yet to get online. trust one, playing agonst humans is worth it. Innes H Parkman

charakodellismi shareda

As a victim of a Psycho Geek, I fully understand [Martin Groby] feelings. My experience was in DAMACI - before the feewes in place to prevent players from killing and joblang other

playors in town. However, the blow was lessened by the timely intervention of another player who, upon horizing of the attack, took the time to burit down the PK. He for she, Lower shifted out) returned with my stoff. the goods car, and the gooks belongues louddfronto in game action. Honey some folks on AOL who have been oblic to have seeks battred from the system All it took was some paper and

> the sentity of a guide The point of all this. Mr. Circles, is to let you know you are not alone, and to say PSYCHO CEEKS BEWARE 1 Some folks do not take kindly to announce. and like in real life. The net is not as safe as it appears

about those ours to under

Most Dern via the Internet

LETTER OF THE MONTH

COMPUTER **GAMING VOID** Ldid a for little Web

pege for fans of Com-URL to http://ourworld. comparery combonepages/temple_winds Bob Millard CampuSene Subscraber

Since the staff hore at chuckles out of sour Correstor Carrine Void Web site, we'll puss the URL along to our readers



CGV ONLINE Bob Millard's amusing Web parody of CGW includes a column from "Scornia," a sent from "Morton Durrish," and a sneak preview of GORE.

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Only one thing to say RIGHT ON You have summed up the main reason I don't play on the Internet. The exestors of the games had the right idea in bringing all the fans of their games together on the Internet, but it only takes one "Poseho Ceek" to min the whole thme. The biesest problem with them is that they might end up giving someone who really wants to enjoy the game such a bad expenence that they won't ever try again. I wish I had a solution for the problem, but I don't: The solution I excated for myself is not practieal for everyone. Lum in the process of setting on a small sever for moself and some of me close friends to enjoy multi-player pames with each other. That way at least I know who is onthe other end, and I don't have to put up with a mobilem that will wordy just get bioger as

online memberships continue to grow you the Internet

HARD CHDICES I have been a faithful reader of your magnote for several years now. Each Issue is more enjoyable than the last, I get a kick out of the letters you publish that people send in about things that are really instgrifficant that happen to show up in your mozastne. The use of a word that is heard everywhere, but when printed it now becomes taboo. The advertisements that offend readers, yet prime-time TV shows more blood, sex, and even advertises contraceptives. TV has a much beare stewne base and much busher editing standards than a monazing. So, don't you nay any mind to those who have trouble turning a page rather than studing at it till their blood body. If it were TV, they would just turn the channel. So, let them turn the nare instead

I think you're doing just fine. Well, all except for one thing that does bother me. Why is it when you servery hardware you can't come not out and choose the one you think is hest? Surely your apprion would be helpful due to the fact you have the time to try each product. whereas we the readers can't buy one of each and return the ones we don't Ma These been wenting to have 3D-example

card for sometime now and have been warring to see more severes but haven't seen any yet. South with the recent release of meny new

cards with resdated chies you could check them out seam and nick an overall wirner. Daniel A. Homa visibe haterset

This month we review two new 3D-gamare cards which you'll find in our Hardman. section. We're plenning to do another major sound-up of 3D cords in we upcoming issue. You may also note that every mand-up one: has a CC Choice. This means that this is a cord with a price-to-performance ratio which we can recommend. Of course, some expensions have different critery than we do, so we by to pract as much information as possible about all the hardware we test. This enables you to have the best of both worlds. date to make your own choice and our recnoneculations. Believe it or not use've had furtheure manufacturers tell us that a halfstar difference to rating hardware means a segrebeaut decline in sales. We put cull 'em

Me we test 'em

NOT-SO HOT ROD SYNDROME Eve last freished reading "The Hot Rod Syndrome," Johnny Wilson's May editorial. In it, be ansses that comers are caught in an endless and expensive race to stay on the outting edge of technology. I find this preprient both compelling and well-reasoned. However, as a lone-time samer. I have personally followed a different strategy-I have opted to stay on the lagging edge. For the last five or six years. I have mutinely uperaded the "bottleneck" component in my system to the best replacement available at a commodity price (read "ebcop").

I believe this approach offers several benefits. First, Lean save some arrious money-Rather than spending \$2,500 every two or three years for the latest ByteWhanker 3000. Longrad about \$400 a year on whotever burst the bassest performance paroff, Second, I find relatively few burst or conflicts to "seasoned" hardware and software. When I do find a problem, the petches or workspounds are readily available. Third, I am able to use the honor stones of the "early-adopters" as well as CCW's ongoing coverage to weed out the real lemons. And finally, Lam abuses within shouting distance of "current" techpology. There are very few sames I extend nky at a resonable level of performance. It

ENITORIA

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AWARDS, RIGHT OR WRONG?

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Asron "BUC" Stronled

Hung, guess we know where you road OCW. Doesn't the ink smean? Well, and so those of you who didn't appares of Divaso in Counse of the Yow know that the epposition is no in unaninous here's another point of view.

Received the April issue in the mail yesterday (mail to Cuam is sometimes skee), see thet you oere geing to be voting for the GCWPeniner /words and through! I would jump ordine to give you noy two cents worth. Tims out you've already seed and what it great choice. I was giving to make a pitch for DURED, but as it hums out, you have excellent taste!, you, before it as settlar game—desticed for the Hall of Fame.

Bleamd on field the much ves this time? The multiplayer options a rou'll say enough goest and hardles or is the best. I can't say enough good things about the game By the way, have glasted section of the other games on your last so I are comparison evaluating here. Keep up the groot work I suchembe to severe all magazinus to lat yours is the only use I round cover to cover (smally the memoral starters). Thank you for your time.

Mike Smith Courn

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CHECK OUT





WING C

Origin Gets Back To Basics

I's tashionable these days to dismiss games published before the days of SVEA graphics. full-motion video, and Internet play But if we did, even half of lame games such as Wins Coverances would be Ittle more than museum nieces. Obviously, the staff at Origin doesn't subscribe to such a revisionist view, because the latest in the series. Who Communities Property, resembles nothing so much as the first Wess Covivations.

Oon't panic; this doesn't mean that Origin has returned to MCGA graphics or a predictable enemy pilot AL Just take a look at these CGW-exclusive screen shots, and you'll see that Origin is pushing the technological envelope as usual. The game will be Windows 95 native, but don't expect a performance decline from previous Wina Connencers. Origin's proprietary software rendering lectinology is most impressive: I saw ships moving around at about 15tos faster than under O'rect 3D; Origin will probably support the Microsoft standard as well, using a series of hardware tests similar to Was IV to determine which is better-suited to your system. Jed. Griffes, the programming wigard who developed the robust 30-

engine for a planned adventure/RPG game now on highus, added platform-independent code that will allow you to utilize 3D cards. whether or not you use Origin's software rendering (theoretically this would work on the Mac. as well. If it man onto

true 30 card support). But for all of the technical sonhistication of the engine and graphics, the real star of Prophecy should be the gameplay. The design team spent months on the script which sounds typical

for a recent Wee

The mysterious alien Manta.

Convenies product. But instead of building the game around the full-motion-video sequences and then adding the space combat. they designed the missions first. So, the end result will be less of an interactive movie and more of a true gaming experience. Senior Producer Billy Cain contains that, "Our goal was to return to the essence of Wino Covavivora I and II, where the correctly and the cinematic style were integrated into a really addictive experience, even though those games used animation instead of FMV." Not that the design from were acoffing at the

MMCscbcues' on pg 30

Short takes on games and hardware released just prior to press time. MDK Plan AVOX for a for a few hours and you'll suddenly see what all the type is about. Sure, It's a third-person shooter, but gameplay is different and refriehing. Emphasis is on cautious movement You can't run toli-fit through the levels. because at critical junctures you'll have to stop, put on your sniping helmet and take down far off enemies. The enemy All is also good: the/I faunt you, nin away, and

even cry if you hurt them badly And, if gameplay

isn't enough to entice you to play, maybe you'll

do it to just save the Earth from the mensornal



atten irrasion.--Ellott Chin Playmates Interactive, (714) 582-1743 PC CO-ROM

Reader Service #: 301

QUOTE OF THE MONTH

No polygonal animals were harmed during the making of this product.



-hiterstate '76 disclaimer, as stated in the 1976 Auto Violante Compendium.

A Parody Far, Far Away

ther polluting the peaceful island of Mest in their namely Prsr. the people at Palladium are ready to describ another entertairment Institution: Stay Wars. Barring legal entanglements. Pallartum hopes to referse Strin Wheero at the end of May, Unitio Prst, Swe

Watern will be a collection of mini names. rather then a stide-show Among them are a fichting game

between Luke and Leis, a trivia An Ewek rigo for the game called U Don't for Jedi' an Ewow bashing shooter called Whack The English

Luke and Leia battle It out

and an Astronous knock-off where you shoet all incoming seece debris, from space ships to floating Evoks We don't know if Lucas will take this good-natured ribbing in stride, but we sure frink it's fundy. cert's just hope the lawyers don't get to this

corody before we do .- ENGE Chin

Mews Flash

>>> Pamasonic recently announced a new line of desktop. CD RDM drives with a 24X transfer rate, theoretically the tastest spin rate to date. The fine includes two new internal models, both of which should be in stores now. The LK MC 6868P ATAPI drive has an estimated street price of \$199, while the LKMC606BP SCSI drive will set you back \$209. CGW will test the 24X CD-RDM drives and report the results in an uncomion issue...

>> In a move that would make NFL draft day experts envious, Jim Degoty recently snatched two high-croftle free agents for Arsewal Publishing, Frank Chadwick, former head of Game Designers' Workshop and award winning designer of over, 100 board wargames, signed to do a computer version of his Command Decision miniatures rules. Major Gary "Mo" Morgan (Bic AV Floor) (midut, will exidently be doing a modern era vergame.

>>> Microsoft recently announced that it has signed an agreement to accord Web TV Networks for approximately \$425,060,000 in stock and cash. The acquisition would allow Web TV to take full advantage of Microsoff's Windows CE and Internet Explorer technologies. Johnny Wilson ponders what the acquisition will mean for both par-Ses and what effect if will have on the industry in general at www.computergaming.com.

ABIT ITSH MOTHERBOARD i folior with profreshments which is way some people adjust valve tim



at much the same, but now and then, a new twist on an old theme arrives, in this case, the Intel 430HX chiose Societ ABIT JTSN. The resilv unique Trico. about this board is the complete absence of lumpers. If you've ever wondered how parameters like CPU speed and bus clock are set, it's incredibly simple-you set all your CPU timings in the BIOS. In tect, you can set all kinds of Interesting timings, including boosting the bus dock to 75 MHz (the 2.0) rev will take ESI MHz timings), suitable for Cyrix. P200+ processors it even comes with a PS/2 mouse connector in other ways, it's a prefly typical AT board: 4 ISA slots, 4 PCI slots (one pair shared) and the usual collection of senal and parallel ports Performance is everly good, generating a CPLIMark16 of 431 and CPLIMark32 of 424 with a PSSC MWX Pentium (all bus timings at 65 MHz).

Brady Sanice #: 302 Every gamepad these days

The manual is probably the best live seen, although it's still not for the technically-challenged. If you're there bird to cook and a real of granters afted to tweek the low-level inner-workmos, check this one out -- Love Case

Abit Computer Corp. www.abit.com.tw PC Motherboard

THUNDERPAD DIGITAL







WING COMMANDER PROPH

partnessed bogs to 20 success, both critical and in terms of sales, of Was Courseous III or IV. From taking to them. however, it's obvious that, as much as they respect Chris Roberts, they felt the later comes in the series crossed a little on the uncomfortable

side of that are time between game and movie.

An early sketch and a rendered model of the Confederation Vampire, Notice the pivoting engines.



As for the plot? We promised that we wouldn't give away any big secrets here, but some of the rumors you've heard are true. Even though the emphasis on widen has been out back, many of your tayonte characters are scheduled to return, with some contract neophations still going on as of press time. In any case, the biggest change from earlier Wisc Cossissions is that you no longer play Blair, but a young, cocky space pilot. night out of training.

The Kilrathi do return, after a fashion, but there won't be any big kittles serving aboard a Contederation carrier: According to Jean members, "after what happened with Hobbes, another Kilcattii defector just wouldn't have any credibility." The sons of Kiliah aren't exactly the Bio Bad Guys this time either. That honor opes to a mysterious aten race, who have come to view the Terrans

and Kirathi as dangerous, and as a cesult. decide to take both races out. Whereas the

ins. if

padis

sleck as

Kirathi and Confederation were pretty evenlymatched, the explic technology of the aliens means that you must come up with new tactics-a big plus for what has always been one of the most innovative space combat games.

It's a given that Wing Committee: Profrecy wifi be one of the major gaming events of the year. And while details are largely classified now. our agents are already on the case, because loval Confederation citizens (and CGW readers) have a need to know. So stay tuned for further developments. - Yerry Coleman



advertised, and tarriy organomic, but it also feels a bit small. More importantly, it lacks the excellent daisy chain link-up ability of the

Microsoft gamepad. A good paid, especially for action-priented sports games, but not upto the standard set by the Graws GriP line. Loadoch, Inc., (800) 213-7717

PC Gamenad Reader Senios # 303

THE CITY OF LOST works bet-CHILDREN Based on the surreal French 95 than riim of the same name. The Cov-DOS. The or Lost Outroop is standard adventure face

wrapped up in a beautiful parkage. Sadly though, the package is earnly becelt both of story and cameplax. The breathtaking graphics are wasted, and the come talls to fully utilize its



characters, which include evil Stamese tweeand a magman who steats the dreams of orphaned children. A cumbersome interface and short playing time only add to the disanpointment. The City of Lost Children could have, should have, been so much more--Robert Colley

Psygnosis, (800) 439-7794 DOS CO-ROM

THEME HOSPITAL

In this pseudo-sequel to Bullfron's Tease Pass: you design. build, and run your own twisted hospital. As the administrator, you must gone various. goody allments, maintain a healthy profit and



n off the Arcade

Sega Brings Strong Arcade Lineup to the PC

hotever you think of Sepa and its less than shellar console system. Saturn (helipse me, the thought's aren't pretty around here). you cannot deny its incredible arcade provess. Sega dominates the arcades with top-rated games in the fighting, racing, and shooting genres. Sensing that the garning landscape now makes single system Involve universible. Sens has chosen to port many of its arcade titles to the PC. So far, we've only seen the older generation, such as Varua Figures 1 and

Venus Cor 1. This year, we're still not getting the latest from Sega, such as racrom the eries

ing game Surea GT or Verua From 3, but we are being brought more up to speed. Here are some of the thies being ported to the PC: VIETUA FIGURER 2: This was

Sega's premier fighting game, until the stunning VF 3 last season, and it will hit PCs in August. The came feetures two new fighters, more moves, and better graphics, along with LAN, modern, and internet place

VIETERAL OS: This is a robot foliting name with unrestricted movement in full 3D arenas. You can choose from eight robots. and duke it out against thends in spilt-screen, modern, LAN, or Internet play in the arcades, the game used a dual lovstick for

control, which Segs will soon bring to the PC. This MMX-only game should be

available, direct from Sega, by the time you read this article Vierrus, Seuvo 2: Known as Cor 2 in the arcades, gameplay is a little bet-

ser this time with different tracks to choose from, more enemies, and beffer machics. Sega will support PC light guns for this September release. Dayrona Decure: Dayrona USA on the PC was a disaster with terrible magnics, no multiplayer capa-

hitties, and a lon of console conventions still left in the ports. This time. Sens will try a more sincere port, with improved graphics and multiplayer support, as well as additional new tracks and cars. Delux Will ship in September



Masx TE Based on Footsort's Isle of Mann Roce. Mycc TT. Seco's motorcycle racing game, should hit destinos in July. In the arcades, you actually ride on a motorcycle prop and lean left and right to maneuver. On the PC, you won't have that immersive control, but Sega is hoping to convert as much of the tun as possible. Like every other Sega title this year, there will be multiplayer support. You'll have eight bifes to choose

from, but only three tracks to race. Last Brosx: Another fighting game, this one is set in the rough-andtumble inner cities where police and thucs duke it out with billy-clubs and fists. It should arrive by year's end.

Touring Car: This is another racing game, with even less forgiving and more realistic handling and physics than Dwrow. It's also due out by the end of December -- EWoV Chin

reputation, and manage a staff with bicaire hobbles. There's little time to review bank



accounts and pie charts when your hospital is hit with wordt waves and voo're shill working on a cure for bloaty head. Typus Hospital gives those Hillary wannabes who've been saving they could do health care better the

change to prove it. - Dram Jepsen Bulling/Electronic Arts, (800) 245-4525 PC CO-ROM Beachy Service # 305

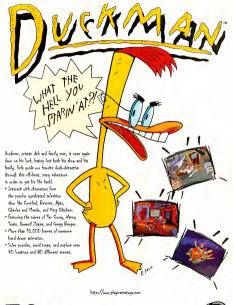
SHIVERS TWO-HARVEST OF SOULS

The second of Slarra's puzzle adventure series almed at older teans takes clape in a despitate Southwestern backwater with more secrets and oddities than Two Reaks, You've come to fown to investigate the disappearance of your friends in nearby Devil's Mouth Canyon, a place of legendary ext. Along with the standard stirtingtile face. Heavest or Sours allows obviers to



redesign puzzles and email them to friends. And, it you have PPP internet access, you can chal with other players white you play -Kata Hadstrom Sittra On Line, (800) 757-7707

Windows CD-ROM















The Black Onyx

lue Planet Software is a startup garning company that you've never heard of, but they have an adventure game in the works that is promising enough to keep an eye on. Called the Buxox Ovox, the game tells the familiar tale of a lone adventurer on a heroic quest to save the world. What promises to set this game apart from the rest of the pack is that the game's world is being designed by none other than Roger Gean. the world-famous artist whose psychedelic album covers for the bands. Yes and Asia are some of the best ever created. Look for more coverage of The Busck Owek in an upcoming kspa of CGW - All Green

PLAYING LATELY

CGW Survey 1. Diablo (Blzzard)

- 2. Chilization II (MicroProse)
- B. Red Alert (Mestycod/Virgin) 5. Duke Nukem 3D (30 Realms)
- Heroes II (New World Computing) 5. Quake (id Software)
- 7. Privateer 2 (Ongn) B. WarCraft II (Bizzard)
- 9. Tomb Raider (Extos) 10. Daggerfall (Bethesdal * Clearly year maniforn We mail a survey as 1500 condenses colours account mande. The results of Physical Lately inducate what games condens are blown time as an apparent by the resulter's current "baselfor sentions" in the Tico 100

PC Data Best-Sellers'

- 1. Diable (Blzzard) 2. Microsoft Flight Simulator (Mcrosoft)
 - 3. Red Alert (Wisbiood//rdn) 4. Myst (Broderbund)
- 5. Sarbte Fashion Designer (Misse) 6. NASCAR II (Serra On Line)
- 7. Magic: The Gathering (AcroProse)
- B. Monopoly Multimedia (Hashro)
- Quake (id software / GT Interactive) 10. Tomb Raider (Exios)
 - This believeles what the hip solving PC garres were, is calculated by PC Disk, sta

ATF GOLD ATF Gour is yet another rehash of the creatly US

Navy Firettess sim engine This time we're treated to a Windows 95 version of Adwiscop Tichous Provinces and its NATO

FIGHTERS add-on. But unlike USNF 97, which

POD

Broder Serve # 207

This futuristic, graphics intensive racing game is one of the best racing games I've played in a while The high-speed, head-to-head action (both

added a Wetnam campaign, all that's new here

is the internet multiplayer feature (which is, to

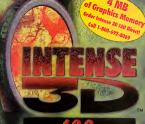
be fair, a blast). If you already own ATF and

MATO salal play over the Net using Mail. There's liftle reason to shell out for the update. But if you missed these the first time around, what they lack in technology, they make up for in fun.-Desay Assis Jane's Combat Simulations, (800) 245-4525 Win 95 CD-ROSS

against the All and other human drivers) is really exhibitating, and the 16 different tracks all provide a level of vehicular madness sorely



damage options that keep you from just crash ing your way around the courses. This one's definitely worth your time-ine Volling



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rouniew mirrors — that's real 3D1 Nation the crowd in the stands and the mountains in the background. And have at that sky!

INTERGRAPH

Might and Magic

COMPUTER ROLE PLAYING GAME OF THE YEAR - 1986

Might and Magic I

COMPUTER ROLE PLAYING GAME OF THE YEAR - 1988

Might and Magic III

COMPUTER ROLE PLAYING GAME OF THE YEAR - 1991

Might and Magic IV

COMPUTER ROLE PLAYING GAME OF THE YEAR - 1992

Might and Magic V

COMPUTER ROLE PLAYING GAME OF THE YEAR - 1993





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3D Iron in the Works

NEW-GENERATION 3D CHIPS BATTLE FOR THE CROWN

his edition of The Works has some very interesting things in the torge indeed, with Rendition, NVIDIA, and 3Dfx (among others) all preparing new chips that will be on boards later this year. And while the term "3Dtx-killer" has become the moritor du jour. it remains to be seen who's truly up to the task. That being said, let's see who's doing what

NVIDIA has been showing an early version of its new RWA 128, a 128-bit 20/3D accelerator which is a complete departure from the first-generation NV1, an early arrival on the 3D hardware scene that proved to be something of a disappointment. NVIDIA is intently focused now on 2Dand 3D performance, having punted audio funcforceffy from the design, but RIVA 128 will also handle DVD video playback, and is both PCI and AGP ready. STB has announced plans to do a board based on RIVA 128. Early reports about this chip's performance have been very encouraging WirN have a reference board in-house soon, so we can give you the early low-down.

Both \$3 and ATI have announced AGP parts as well, releasing details on the GX2 and 3D Rage Pro, respectively. Of the two. ATI appears to have a more complete package, offering a 3D-rasterusfrom setup engine and a faster RAMDAC. But comes in at 230MHz, versus GX2's 170MHz ATI will ship 3D Raps Pro boards later this year, and Diamond Number Nine and STB have announced plans to ship GX2based boards later this year.

Tritech Microelectronics, a relative new-comer on the 3D scene, is working on their Pyramid3D, a full-featured 3D-only chip that will also offer radiosity and specular highling support, as well as a new kind of lexture map effect called bump-mapping. The early demo I saw was very

impressive, and this could be one to watch. Rendition has their second-generation Venté V2000 family of chips up and running. Dne notable short-

Block diagram of NVIDIO's RIVA 128-bit 3D accelerator.

chip was a bandwidth problem when Z-buffering was enabled. Rendition has solved this problem in their new V2200, and is expecting a 2X performance increase in both 2D- and 3D performance over the V1000. Additionally, the V2200 works on either the PCI bus or on AGP, and the chip's clock speed has been increased to 900MHz (from the V1000's 60MHz). Microsoft's next version of Direct3D in DirectX 5 (currently in beta) will sup-

coming of the first-generation V1000

port DMA, which will benefit the V2200's DMA-intensive rendering engine. 30fx has two chipsets in the works, though details were sketchy at press time. Dire of them, named Barishee, will likely show up both in PC boards and

in Sega's next generation console box, code-named Black Bell. Look out for the official 3D Iron Works logo in REACLME every month to find

out the very latest on all the new 3D cards and chipsets -- Dave Salvator

UN Stdt. (415) 547-4028 PC CO-ROM Reader Service #: 308 NRA JAM EXTREME

in an era when even the resi-title NBA stamgunk confests are predictable y and boring, it comes as 8th surprise that this ign't exactly a swebtion in PC hoose entertainment. Tokin' the Jaw Express dight require a P133 to look about the same as NBA Live 95 on a 486-33-especially considering that there are only four players on the foor instead of ten. The studgish controls

might be OK if you were smutating 1940s-era contests, but for today's fast-paced game? Dr. J.,

TEN PIN ALLEY Attemption to recreate the whole

bowing alley experience. Ten Pin Acces allows players to control the bowler's attributes, ball weight, and material, and even lets them create a desirable ambiance for the dame Choose between modern rock 'n'-roil aliess or cheesy refics from the 60s (with accompanying

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PC CD-ROM

Bracky Studen # 309

founce music). Turns are executed by clicking on where are you when we need you?... Puty the bowlers maker to decide the power soin, and release of the bell. Although the system works, it soon

becomes repetitive. and is no match for comput

Almost all of bowling's nuances seem lost in the mouse, -- Matthew Scheeler ASC Games, (203) 655-0032

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O'CONTROL DW COURSE Technology IAI Sound Bloom and the Course loss are revolved and required and difficial Cold. Course Week-white Cond Form 10 Department Andro

Commanding Conquest

Eidos Is Hopeful About Its Real-time Contender

I seems that after Toxis Ruces, everything Eidos is pedding is supposed to be a sure-fire hit. That's a lot of hyperbole, but their real-time title, Conquest Easte, has some interesting testures that could at least elevate it above the rabble Like many other games in this gente, Coxouest

Exem features aftens as the vifeins. You can play either the humans or the inhabitants of Mars. The two sides will not only have different units and



buildings, they'll also have completely different interfaces. The humans will have a very hi-tech interface, while the allens' interface will be croarus. When their monitors open, you'll see membranes pull apart to reveal a screen; when the monitor shuts off, the membranes will close fike evelids.

Coverest Fame will also feature some technical advancements, such as being able to show FMV within namental windows. When a barracks is destroyed, a live-lead will pipe through one of your morntons, and you'll watch full-motion video of the barracks being destroyed. You could even have multiple FMV sequences playing in several moretors on the side of the interface white the action is still racing on the game screen

Whereas other games are trying to downplay

Concept art of one of the aliens in Concurst Easts. the action aspect of real-time games, Concurst Exam is embracing W. You'll actually be able to seize control of individual units and control

Conquest Earny is slated for release this summer. A mission editor will come with the game. and Eldos promises many grotesque cut-scenes to, er, firsh out the allen massion storytine.

-- Filtory Chin

them, as in action shooters. This action will stiff take place from the top-down perspective, but it allows the building garners to take an even more active role in the combat.

Other Eldos Titles to Look for in the Coming Months:

For those of you having Lara withdrawal symptoms, do not tear. The lovely basic will return at the end of the year in Town Record 2, Mass Croft will be showing off her latest weapons and overcising some new abitties as she batties it out with more bad cuys if that seems a long time away check out the Tons Ruces: Unrecesso Business expansion pack, available now

Forsaken, Eidos' new single player adverture/RPG has you berting with monsters diagons and wraths in your efforts to overcome evil. Banished to a lonely island, you must persuade the other extles to loin in your efforts to vanguish the wicked Warland. Austichia sorty 1998

Department Departme, Endos' 3D action/combat. game (based upon Ian Livingstone's fighting fantasy game-book series), offers ten tevels of hackin'stash conflict, set within the confines of a dark and chostly dungeon. The game has multiplayer capabilities tup to four players via network or Internet) and should be available in Dolober.

Bidos' FORMULA ONE racing came, based on the 1995 season using the others! Futi license. features 13 teams, 17 cir cuits and a new network-

ing system that allows up Death Trap Dungeon to 26 people to player appired each other

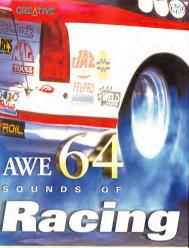
Daysowa, the first game from John Romero's new development compers. ton Storm, is a first-person 3D action/RPG that uses the Dusce engine. The player travels through time in search of the mythical Dalkajana, an ancient Japanese sword. Frag-fans do not feat the game. also bolds lots of opportunity for multiplayer deathmatch action. DANSTONA is stated for a November release

Bidos' Flight sim line-up includes Forms Normwats 2, Commento Kiu., JON'T STREE FIGHTER, and TENN AMONE, all of which will be covered next month in our Fight Sim Roundup. Eidos' Plus, Fusir Universo II is featured in this month's Flight Sim feature - Charlotte Panther

Locks, one of the characters in Forsages,









Put the pedal to the metal with the new Sound Blasser' NWE64 Gold", the only sound card created to upgrade your Pentium' PC's multimedia sadio system. With 64 available visices playing simultaneously and the new WaveColde technology; music playback will never be the same. And don's werry about compatibility issues, because it's a genuine Sound Blaster. Also,

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UNDBLASTER GON Grid Erro To Britanal Audio

63. Congratulatory Sis 64. Wizzing Past.

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SegaSoft Prepares Join the Online **Gaming Ranks**

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ith scores of enmenties

ing abcord the online gaming bendwarron, the neces-

sity for original and eye-catching content is greater than ever SegaSoft is the latest contender to strut its stulf in cyber space with its new Internet

naming network, HEATnet, HEAT will offer a free area where players can

access most of the names and chall rooms, and a premium area with exclusive games, tournaments.



and special events which will be available for a minmal fee (SegaSoft anticipotes the service will cost habson \$40-50

per year), HEAT will also be supported by advertising, and the company plans to make viewing an ad worth your white. Clicking on an ad buys you frequent player points, which can be exchanged for goodies at online

stores, or used to buy power-ups in games HEAT uses Mpath's low latency technology and also supports IPX-technology allowing namers to play third-party games like Duver over HEAT SecaSoft is developing a selection of exclusive titles for HEAT, the most interesting of which could be NerFighter, the first fighting name created specifically for infernet play SensSoft hopes that the animated action sequence as each character moves will help conquer the latency issue. What we've seen so farwell-rendered characters each with their own disfinct fighting style--is impressive, but only

Who's That Girl? Vanasce's Hilds could give Lara Croft a run tor her money.

hands on gameplay will tell if the latency problem has truly been resolved. We'll keep you posted. Other names include Scup, a fast action, multiplayer shooting game filled with a host of power-ups and special weapons: Austri Ruce, an action/strategy game which allows three teams of ten people to compete asserts each other in an attempt to protect their own after territory, and Harr/West, an rightplayer search and destroy strategy game.

SporSoft will also release VoluMCE, an action(adventure game with a Mission (mpossybletype story in which you play one of eacht members of an anti-terrorist group. Using the photo realistic An/World Dynamic 3D engine, the game boosts stunning lighting and real-time transperency effects. It will support LAN and Internet (over HEAT) plays

SegaSett's first-paced 3D adventure game, Stops, is set in persistent universes where each mythical character will visibly age as they gain experience. Playable over HEAT, this floating. world will accommodate thousands of inhabilants including Angels—both good and dark— Demons, Dragons, and Griffins

And, for those who still feel intimidated by Internet ctay. SecoSalt has something else to otter Later this year, it will release Lose Your. Myeaus, an addictive and well-thought out Terras clone. Available as a retail-only product. Lose Your Manues can be played against the computer or against a real-the opponent (either on the same lasthoard or via LAVI -- Charlotte Parther

Decisive Battles of WWII SSISSE Die by the Sword Interplay Sammer Fold Warhammer 40K: Redemption SSI carl Evolution Dispovery Channel

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suspension, 380° range of motion and killer 3D PSYGNOSIS iandiccapes, Mcking-ass will look kick-ass. Ravage ceds. Trample trouble. Send family wagons to most their maker

I Thunder Truck Pally, and get ready to shred













Live From CGDC...

3D chips at CGDC all showing marked improvements over the first generation trips, it holds the by early 1998, we'll see the quarity of even the everage 3D chipsets showing up. For the July stary, check out 3D iron Werks.

"If you're looking for fun eye,

sion, Interactive UO is developing a what reality cooker shruters Games while eithe to play their forwite PC light sims from vasible a realistic cockept. This projected interfaces to the PC through the standard psystick port. For racing kms, interactive UO's model UO Virbuil White is a ready weatable.

... Despite the suction flourish of realtime strategy games, six out of the soven dentitipers we spole with said that the ser working on turn-based projects. Why? They of cather be one amongst a dozen turn-based games then be one of

the hundred real-time C&C clones being produced this year.

...C&BC's annual Spotkight Avends.

Commony produced some interesting with ness. Duer Nazaw non Best Acison Game, bealing out Marca 64 and, more superior logity. Quiviz, while Marca 64 achieved the coveled title of Best Game of 1995, while coveled title of Best Game of 1995, while coveled title of Best Game of 1995, while covered title of title covered c

ning own Curve. Tool Notes, and Chris.

30 Realms announced that the neb Date project. Duse Foreers, will use the Curve criphe. And, in middled make, a new lead for Duse Hakeas Ober socially amongmed, in Promouse Powers, Duke comes to the rescue again. This time he'll, be saving Revolvouse feet toom alone. An or doubt eating a Hille Mark in end and.

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Computer Gaming World to Report Live From E3

ant to know about the latest game news as if happens? Din June 13, 1997, our E3 News site will ome to life as a gro view for what will be the most exclusive daily coverage of the gaming event of the

coverage of the gaming year—the Electronic Entertainment Expo (June 19-21), We'll be going live at 12:01 a.m., on June 19, with breaking news, (intorviews, feetures, and analy-

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More than 50 editors and reporters—the staffs of Computer Gaming World, GameSpot News, PC GameSpot, VideoGameSpot, will combine forces to create an up-to-the minute real-time news service.

Dur team will produce hundreds of stories over

Dur team with produce bundereds of stories over the three days of ES, Including previous of games, breaking coverage of announcements, and exclusives such as the full story of the much anticipated new title from come leaand

Sid Meler the creator of Cressoron Ger ready to book-mark our Web site at www.e3news.com.

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CGW Helps Launch First 3D Benchmark

If the deaching Continus (Carolina) and ODM more limit much healed 30 Welferch at the record Congrad General Description Conference Section Secti

WinBench, check out www.zdbop.com

In addition to WinBench 3D, we're also introducing LhePfay, a new game based testing method that uses fored controller input to Directifiput. What this means for you is that we'll be able to give

BOP you the low-down on real game play performance with all the gaming impedients live: physics, audio, Al, and controller input.

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Amooga



he death of the Armpa is often lamented by hundreds of thousands of former users (and a number of CGW actions) who food ly remember the machine smoothly dorno things. in 512K of RAM back in 1985 that are still chirtly on a 32MB Pendum Pro today.

Will, to paraphrase Tissin, the senorts of the Arriga's demos may be exapperated. Although Escorn, the German company who purchased the rights to the Amica, followed Commodore into bankruptcy, the machine has been rescued again, this time by Gateway 2000. The company was slated to announce the machine's befure at a press conference at the World of Amino show in London in mid-May

And Amiga pundts may yet get their wishthe Armaa osuld still become the world's most popular computer. A Chinese company has purchased the rights to build an updated version of the Armaa CO32+ conside (68030) processor, CO-ROM drive, and a modem) for the Chinese market. Although targeted mainly to play CD moves (which sell for \$1 each in China due to the lack of copyright protection), if you plug in a PC-compatible knyboard, you have a full-blown computer at a fifth of the price that an IBM-compositive sells for in that country. With China's huge population, the Amiba platform may yet gain the success it missed the first time around. - Denny Atkin



will take place July 16 through July 23 (as of press time, a specific location had not been conmed). Organizers expect the time day frag-fest to attract players from as far affeld as Australia. At last year's convention, industry veterans, including members of id and Highotic, showed up to Deathmatch alongside fans. This year's sponsors will include John Romero and the ION Storm cano. For up to the minute information about this year's event, check out www.quakecon.org. -- Charlotte Payther



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A "what-done-it" mystery adventure CO-ROM by Steve Meretzky.













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Activision Reveals Gear and Weapon Specifics for Heavy Gear



he Grizziy is the backbase of the forthern Guard's ears. It has sophis cated armament and 70mm arms

an exclusive to Computer Gamino White Activision has revealed two of the pears (giant robotic fighting machines), and two of the heavy weapons to be featured in their upcoming Heavy Green combat simulation

As expected, the Northern Guard will be represented by the Grizzly model gear. The Grizzly is equipped with 70mm armor, as well as the following weapons: M225 Heavy Autocannon, GH-8 Rocket Pods, GU-10 Galling Gun, M25 Pack Gun, TD-76 Mortar Unit, and the HW-VB-1 Vibroknife. It has a running speed of up to 40 kph. and a rolling speed of up to 65 kph.

The Southern MILICIA will feature the versatile medium class near known as the Mamba. The Mamba is equipped with 56mm armor, as well as a PR 55 Autocannon, Vogel-8 Rocket Pod, two GL-01 Grenade Launchers, VU-11 Vibromachete, and HG-C4 Hand Grenade. It runs at up to 55.4 keh, and plints at a ton roting speed of 84 kph. It is also rumored that the Southern MILICIA will selv more upon the King Cobra gears than the basic Spitting Cobra gears as their heavy units.

Both sides will have a variety of weapon modules. with which to equip their gears. As of press time. CGW had secured images for two basic weapons: the Light Particle Accelerator and the Rapid-Fire Bazonia As in the original sourcebook, the Light Particle Accelerator will have an effective range of 400 meters. and can penetrate up to 100mm of armor. If a a cood thing that it takes a heavy unit file the grizzly to handie one of these weapons, since the weapon is not only capable of penetrating the heaviest gear's armor. but doing electrical damage to said armor once it penefrates. We haven't seen an Image for a Heavy Particle Accelerator yet, but this heavy weapon is expected to be used only with Strider vehicles-huge support artiflery. The Heavy Gean design team has not con-

firmed this bowever Technically known as the Paston RFL-2 Spothsawn the Rapid-Fire Bazooka may be the most versetile weapon in the arsenal. It has the same 400 motor range as the Light Particle Accelerator, but a higher level of penetration (200mm of armor). Think of it as a burst firing rocket launcher that can be used by any size open

These are the first definitive specifications and images received on the gears and weapons themselves, though we saw Hunters, Grizzlins, and Mambas when we played the prototype for our recent cover story (April, 1997), More will be posted on our Web site (www.computergaming.com) as we get closer to fall.-Johnny Wilson

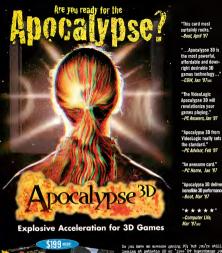


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involgin zon were want vertramm bows to see haw components (and games) perform on a variety of CPUs. These systems talk to each phagatality over IPX (LAM protocol) and TEPAP, the internet's protocol, in putting together our top-notch networking hardware,



we partnered with ZD Labs, Ziff-Davis' big

kithung testing facility. We'll be using our usual arsenal of testing tools, which include WinBerich 97 and the new 3D WinBench (the first definitive 3D benchmark). We'll also test performance with actual DDS and Win 95 games to see how the latest, and supposedly greatest, fam. in Windows 95 games testing, we'll be using our new LivePlay testing, where we'll use pre-recorded input scripts to navigate real gaming environments, and get repeatable, apples to apples comparisons of how different hardware stacks up. These test results will reflect games based performance with all cylinders fring, audio, All roystick input, physics, even multiplayer process ing, Soon, you'll be able to download our actuat CG Lab fest scripts from our Web site, so you can put your own system to the test and see how it does. We'll have downloadable test scripts for graphics boards (2D & 3D), sound cards, CD-ROM drives, hard-drives, game controllers, and entire systems. They should be available late this summer so stay funed.

Look for the CGW CG Labs Approved seal for our top picks in hardware products throughout the magazine %



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more his points and certain abilities that apply to your specific character class, such as increased speed, firepower and jump distance.



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OF THE APOCALYPSE
LURK IN THE SHADOWS
BEFORE YOU, THEY ARE
DEATH, PESTILENCE, FAMINE,
AND WAR, THEY ARE THE
ROOT OF ALL THAT IS EVIL.
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The third and last Rosein Scripcia (Idag. Edolosi (Co., Achie Necromusees, the Amashi, the Considerior the Polatin, you must defeat the Dark Generals and their Hellispowned legipate before you can face the archiferd and attempt to end his reverges outquight.

Go in peace. And you will surely die

HE KEN II

Coming this Summer on Windows 95

Target Release Date: Octobor, 199: Developer: Activision

A Whole Grue World

The Great Underground Empire Rises Again in a Brand New ZORK Trilogy

by Jeff Green

A Magific, 1977, Site Villers was whereast better bends, and a surous was been Egild site Viller, so he bendered does a ground of MT programmers, schading of the Lading, Marc Barrs, and MT programmers, schading of the Lading Marc Barrs, and the Lading Marc Barrs, and where of the common the common marketime to compelled. This game overstudy and the Common the Administration of the Marc Barrs of an artificial primars, glotid—now to account a personal decreated. The preserval decreated Trans.

As with Star Mars, the lisst Zork game was only the beginning. For the next 20 years, over this course of the games, the story expanded encompassing roughly 750 years in the history of the Great Underground Empire, a land inhablited by will accepted, dievethad largs, man-eat-

ing grues, and you the quick chinking advanture. Along the way the Zere series set a standard for humbrous, yet beanbusting, garmetally that they other advanture garmes have even come close to



Now mouthly 30 years other Dunation was conceived, Advision is emissiving on the most ambit out Zeve, project to date. Zeve Gesson because, quie after Gosbook is the first in a lifety of garnes that will fill in another huge otheric in the Zeve treating and will be granute specific will store of the effect most player by charawat some of the effect most players by chara-

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HIDNEY, I SHAUNK THE GAMER The Gro who practice megic are cut down to size.

technology and, to ensure his domination, has diabled himself the "Grand Inquisitor" and forever benished the practice of map(c).

As the game opens, you, the anonymous adventurer, have arrived in Port Foodle, where you discover a lantern containing the trapped. disembedied spirit of the Dungeon Master, who, in the came's opening out scene, had been obiterated by Yannick, You grab the tentern, descend? into the Great Underground Empire via a secret entrance, and emberk on an epic adverture to save your friend, restore magic to the world, and deteat the Grand Inquisitor once and for all. To accomplish your tasks, you'll need to travel back in time to recover three legendary treasures; the Coconut of Quendor (from Beyong Zorsé), a Cube of Foundation (from Sequenewer), and the skull of Yoruk is character in Zoek Nevesis). Along the way, you'll visit some of the most famous spots in the Zoek universe, such as G.U.E. Tech and

cut a way to get past this bad buy.

the legendary white house, and most with some of its most famous characters, including everyone's favorite sorcerer, Belboz.

ZORKIER THAN THE REST

Since transforming from text into graphic adventures in 1993, the Zork series has been a mixed bag. The first effort, Rimay To Zork. was a bit cheesy, and suffered from an incomprehensible interface. The second, last year's Zoxx Nevess, was a very goodlar game, but was a departure for the series in many ways. Activision Myst-fred the Zons universe with underliably beautiful graphics and a dark, por tentous storvline, but came up short on thain humor that had always been a hallmark of the series. Of all the games in the series, Novesis. was the least Zorky Zoek."

With Zork Grain housing, Activision is wholeheartedly embraging the Zoric legacy while returning the sophisticated look of Nowse. ZGI employs the same "Z-Vision" engine created for Newses, which allows 360degree panaramic scrolling within each scene, but the graphics themselves have taken on a lighter less austere tone to match the game's more comic approach. Activision is also promising more interactivity with the environment (rather than just one or two hotspots per pretty picture), as well as a most

populated world-consisting of both liveaction and computer generated charactersto help give the game the kind of vibrancy that made the old text adventures so great. Ditter refinements include a new inventory system. which will let you store, examine, and combine objects, as well as a dynamic man. which fills in as you explore the world and allows you to quickly move between places

The biggest (and most welcome) change, however is the incorporation of a spellbook given to you at the beginning of the game by the enchantress Y'Gael (from Beyano

Zorx). As you progress through the game, you'll learn a > total of 18 spells which are divided into

three classes: High Magic (the power to create or destroy), Middle Magic (knowledge-based; allowing you to see and compre hend concepts), and Deep Magic (the power to transform and use

alchemy). Some of the spells. (No regroy, will be familiar to fans of the Encycotte trilogy, while others were

newly created for this game. Many of the puzzles in ZGI directly involve the use of spellcasting, which ties in to the game's main storyline of restoring magic to the world of Zone



Finally, you should know that Zork Gravio Incustron is just the beginning of the story. Activision recently revealed to us that ZGI is the first act in a planned trilogy of games. which will tell the entire tale of the 11th-cernury

TOOLS OF THE TRADE Bahind the glass lies your map and you sword. Take them first, and then break the glass.



KNOCKIN' ON GUE TECH'S DOOR The entrance to the most temp mapic school in all of computer gaming.

Christmas, 1998, will place you in the role of the Dungeon Master, who must protect the Great Underground Empire and stave off a rebellion led by the Grand Inquisitor's ghost The trive game, projected for Christmas, 1999. will conclude the story with a bottle between the forces of the Eastlands, including the Dangeon Master (you again) and the evil forces of the Westlands

If Activision stavs with this program. Zone tans have a lot to look forward to, which is good news indeed. Just remember to keep your elvish sword armed and that lantern burning bright-it looks like we'll be on the lookout for grues for years to come &

you've proviously visited From The Beginning

Bithaicri LOSSI DETTACK founds Flathead founds Kingdom of Great Underground Ownder

ZORK I-III (1981-E3) Attroymous advertises regiaces cognel Dungeon Master after finding 20 treasures and defeating Wasted of Frobozz.

emateur Enghaster, with is connoted to rack of

struggle between the forces of magic and

technology. The second game, scheduled for

SPELLBREAKER (1983) Defeat of worker Kriti by Retuilding of universe and end of Age of Marco Cocatut of Quantor recovered from the Implementers

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708K 7FB0 (1987) Collapse of Great Underground Еприе

ZORK NEMESIS (1996) Actions of four roose alchemists

snowns the Namesis, who haunts the Forbidden Lands.

SORCERER (1984) Defeat of darmon Joseph by Scotterer He moloces Relico as head of Circle of Enchanters

ENCHANTER (1984)

ZORK GRANO INQUISITOR (1997) Grand inquisitor outlaws the practice of magic and toternizes anyone who disobers his wishes





Ultima Unbound

Lord British's Dream World Becomes a Virtual Reality

by Terry Coleman

time Orane is no mere durgeon romp to be bitteed through in an afternoon. Like Duvio, it manages to capture the flavor of the tive Dunonous & Dragons games we enjoyed in high school. But unlike Dusco, this game has the depth of a traditional RPS. After a hands-on look. I'm pervinced that Uclass Oscare is the most ambitious rote-playing game over attempted on paper or silicon

Mondain, the creat Focale in Urnaw loss (crior to the Guardian), had his soul corrupted by powerful magic. causing him to twist the

Gem of Immortality to his exit will. When the hero (this is before Avstarbood, folis) finally less with Land overrame Mondain, the ish and Ucress Osuss immediate extl was ofucer Starr Long at ended. But the Gern of outerpring core. Immortally was

shallered into thousands of pleces, each containing a mirror-image of Sosaria. This back story allows for multiple worlds.

which is a good thing, because it's doubtful that if 20,000 people went to play Ucrean Oncor. on the same weekend, they're all coing to fit in a single game world. When you went to switch from one ULTANA ORLINE world to another, you can't take your worldly possessions, such as a building that you own, with you. This has engendered consternation in some LATAW fans. I'm all for having control of your garring enviranment, but if you move from Boston to Milweukee, you can't take your house with you, so what's the problem? In any case, you should be able to keep your character stats infact, so

most players shouldn't have a problem explor-

ing strange new worlds as they open up for business in the Ucraw Craws universe. BUT HOW OOLS IT PLAY?

Umws VIII). Those who really aren't into quests. and want a sort of extended chat area can live a perfectly fine virtual life as a baker. Of course, if your pastries become renowned throughout the land, you could lead an anothery existence as a purveyor of information to travelers sessing adventure. Likewise, a blacksmith known for crafting swords with a well-boned edge will be highly sought after as well.

While being a graftsmen really is role-playing in a general sense, most of us crave a bit more action and suspense in our daily RPG lives. I don't want to give away any major plot twists, but be assured that there are plenty of things going on in the Uksaw, Oruses world. Some are obvious. such as Lord British's struggle to impose order and virtues upon the world, and the attempts by the forces of chaos (supposedly led by Lord Blackhorn) to stop him. Others are more subtle. involving the manipulation of magical forces, the finding of hidden teleportation areas, the binding

of strange creatures, and the like. Then there are the guilds. There are straightforward guilds of craftsmen, and even assassins'

The environment is intense, and teems with depth (and despite what you may have read elsewhere, the engine is not based on that of



YOU HAVE AN APPOINTMENT? Pleases who decide to do outsis things, such as drop in on Lord Blackthorn unannounced, are ely to find that the game engine closs not suffer foots fightic.



are plenty of quick dungeon romps available, where the assortment of Ultima derivers look to be more intelligent than the usual Al monsters.



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Ucon Orane much as they do in the paper RPG world. This is the ambel of the Abettor of Cthufru, a player-generated gold.

to stop them. In addition to the obvious maybem that will ensue simply from quilids with diametrically opposed philosophies, there will be those who will farquent the world simply to prey on other characters. To keep such garners from having a collection of Ucrawa scalps to line their virtual trophy case (next to their ears from Dusics). The designers have multiple lines of defense.

The game engine remembers when a character has committed a misdeed, and will actively pursue and arrest you in towns, and may even offer an armed escort to men chants or travelers to protect from highway robbers. If this trits, keep in mind that the Origin staff will be playing the game on a regular basis, with the capability of removing majorntents. This doesn't mean that they will adopt a Big. Prother attitude, just that they pren't poing to stand by and watch a handful of players disrupt the shucture of the game world. If you wanted, for example, to create a Robin Hood like character, and your band of merry markem makers did more than just kill everyone who came through, chances are you'd be left alone, because you would contribute to the game's ever-evolving mythos.

GHOSTLY PLEAS

Another problem with cheaters is that they lend to conveniently "lose connection" whenever they aren't winning. In Limas Decree If you break off connection, other than in a safe house or a pitched campsite, your character remains in the name for the minutes—an elemity if you are locked in mortal combat.

Should you die in the came, you don't simply pool back up. Oraxe-style First, you wander the world as a ghostly apparition, and your skills begin to diminish (all sidls, improve when used successfully, and diminish with lack of use). You can try to communicate with mortal

characters, but unless they possess the Scry skill, your typed messages to them appear as only "Docooo." By the time you manage to find the appropriate shrine and nain resurrection for your character, your former body will have been reduced to a more shall, decrived of its flesh. elething, gold, and armaments

about their inh security), and

mnediately

thereafter, anoth-

er moun formed

QUEST DU JOUR In addition to the overall storyline, the designers wanted players to experience manageable chunks of the Uktima Oxuse flavor. There are countless mini quests, similar to those you would find in a traditional CRPG, but with a twist: both the game Al and other players will often oppose you in your quest in order to achieve their own goals.

If all this sounds incredibly ambibous, it is. Whether Origin can make this a profrable venture remains to be seen. For now, they plan to charge a nominal fee, and evidentig when you purchase the game (which is only available bound at retails, you will receive a number of free hours online It won't be as inexpensive as Divisio, but

there will pertainly be more long-term replay value. The ability to go on quests and interact with human players, supported by a rich network of non-player characters, makes Ucrima Onunce the closest that computer gaming has come to the rich level of interactivity and camaradene we've always enjoyed with paper RPGs. When you add in the rich background of the Lixten world, and the incredible amount of activity generated by garners themselves, Uction Oscille will almost certainly be greater than the sum of its parts. It's

herd to ask more of a roleplaying world than that %

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form with this

est level of involve-

Garriott (Lord Britist) in design and develop ment in several wears. If has a bit of all his games. etained virtues of Uctiva sal ambiguity of Utilia. at the measury of Ukania VII. all in a strry technological the vocitor rdvilla designer of could scarcely have imprined

ber the excitement of a startup company, I-also remember the pain," siya Garricti All a time when he could kick back, retire to his medicivel-style marsion and enjoy his milions. Gamott is visibly excited about the februs of Library. Whale he wouldn't discuss specifics past Usraw DC he squeshed another runtor by saying that the ending of this tri and the publishing of Ganus Owner will not be the grand

compatrict Corie Roberte, considering Markon to

form his own oxingary. "Two done that. And white-I remem-

of money EA and Osinin would make from addit tional sequels, it was obvi ou's to me from the awarkle in Loid British's eye that he views his brainchild as much more than a cast cow-that's good news for all RPG

finale of the series. White cynics might point to the amount fare, and Urney fans in particular

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tenth is e distintinemery. At their remains is a dentition to meets who chars he colliss you to the other. Calling thre was the easy part, Kow you must be the time, netwee and half the Calling read to arm your paries from cartain entitle thins. Survival in just the beginning.



SIERRA

X-COM 3

MicroProse Plays It Safe With X-COM: APOCALYPSE, but Gamers May Be Sorry

by Martin E. Cirulis

of the parrogles, challenging All enterines, and the best permissishinghe seen in a yeargame; yet earned XOOM—a true undending classis—COVM. 1994 Garme of this York Portion. 1994 Garme of this York Portion These a prior lates, COVM 2 Toward From Set Glore privacel, and, within the COVM offices that 1997 of the COVM offices 1997 of the

Toprose had susked out issue: MOTS (Mare Ot 1 Same) sequel to capac of the surprising
Julisty of the original.
the most port, this plain
vocasives on
VOOM tire a lift dessisted
The most in the supprising
The most in the supprise of
The mos

all that effort to biast those big year peeds from Mars, just to be bid? "On year peeds and whole stod of "or under the ocean that we forgot to tell you about?" At the time, I can remember placeting mysel with the assumance that this game was just a quack thrill to leap us buy within Micropose worked on something well with another to the company to an experience of the company to provide the company to the the company to the company to the the company to th

THE UP YEAR THE UP YEAR THE UP THE UP

Well, soon we'll see it that's true two recent by acquired a file bets of X/COM. Arconover to get a feel for the third mamber of this alien broad. Has Microprose latered to the desires of time who worked something more this time around? The arrover is an unexalized. Med of

a numerous and a second second

Disessed Fox success X-COM fine will be familiar as many of the compety climate in Andronese, rather than expend on dealon. MigroProse has elimpty narrow, the game to occopy.

THE FUTURE'S SO DARK...

Despite your standing victories over the alters in the previous X-DOMs, Ancourans begins with things over cell than ever for humarity. This time there is notody to blame but cursives, since we've managed to allee the Earth's of this environmental uphased that the only liveble place lett on Earth is one

domed Mega-City, Holy Judge Dreddl
Here was my tirst hint that pethaps the
vision of Andocurres, despite the fact that the
game returned to the hands of the original
designers, was a lifter murky. This premise is

The semething from the Ways to Butcher Continuity Atmothack. I'm not sure it's a good isse trom the tarrs' point of view to set up a game where previous victories are made utterly pornities. "Gosh, I sure am groud!"

helped stop the alien hordes so that the world was free to be destroyed by human beings instead." I mean, how much worse could it have been if the

ations have wor?
Cesprise this terridonmental scree
up on our part. Hearten more alters are
hot to our process. But this term they
are coming term another dimension, and
intilizating the last basis of a chileston
into a coming term another dimension, and
intilizating the last basis on a chileston
into Earth. Our course, store there yet,
isn't that much laft to conquer, the tittle
mutants have had to scale down their
mission scoorcingly, and are non subjiintilizating vanisus compenies score.

Luckily for us, the old X-COM manuals are found lying around, and a covert ops organization is quickly assembled to identify and neutralize the menace, even it it

ALTIN GRANCE
These creaty
drives orange
from space or
he occasi,
thoy's
ton
another
dimes-

JULY 1997



You'll be up to your expecils in enemies in this rocket-blosting, melti-layered 3-D hell where your very survivol depends on destroying on army of mechanized killers one by one, taking over their bodies — then survivol depends on destroying on their powers to ambilish the root of the bodies.









bylcosty hoping to please both sides in the hottest debate to hit wargarning since the invention of the hexadon. Apoclures offers the

option of playing either the traditional

the move with real time combat.

Unfortunately, unless the beta i played changes radically, it will only

fuel the fires of pedantic players every-

where and confirm their blas that real-

While RT could have gone a long way

to make Anocurres refreshing, the our-

time combat is merely a gimmick

and elegant turn-based tactical combat engine from X-COM 1, or indulging the part of your mind that likes to think on



means ultimately cracking open the Alien Dimension and kicking gray butt permanently (or at least until X-COM 4).

...YOU GOTTA WEAR HALOGENS

At this point, you're probably wendering how deep you have to look to see if this is another MoTS sequel. Unfortunately, you better be prepared to peer into the dotally, because this song seems pretly familier. What we are really utenting with in this sequel is a change of scale, stather then gotal fleaces in dealing.

Instead of a planet, pour protecting a cityl testead of the alexa miritaring countries the testead of the alexa miritaring countries the man stee burding you, the alexa are hithering compares, histead of lighting in Othes, you are lighting in inshelded to biddings. Inshell of crusing about in a NPCs. Inshell of findings in way to Mars to destroy the alian stronghesk, you took to be during with a time and the strength of the day way that which of diseases on the time of the stronghesk and the To be like the best of lower lower to the alian stronghesk position to the like in these to filled the To be like the best of lower to protect the stronghesk position to the stronghesk position to the stronghesk position to the stronghesk position to the time of the stronghesk position to the stronghesk position to the time of the stronghesk position to the time of time

In ord, we clear you have proposed as using order to the PO's emercinic, and sometimes this was enough to make me longer that all this seemed at the societies. Having to soat through the city, booking for signs of alter in inflatation and try, in jib to decide which corporate leader has been subwirted base in the dogs for it, and it if the final version is a little less out and doed about the less of the less o



BIG GUNS You'll need weapons it within to dustry the allune, but you'll also need to use your with to femal ou those, composite CEOs who have been subverted by the

subtle after invasion

REAL-TIME VS. TURN-BASED: The Debate Continues



FIRE, FIRE Jodging from X-CXXVs current real-time At this game work selence the FIT entre. The nemy All is simply too should be provide any good challenge, and year through A surface but as budy

mel injumentation lists he N. Heighted he risibility combet. Yithis game is gone to offer a marked her but beloade tracted place her has to be a let his smilling around on the part of the aleas and more usual residents from your beload. A smilling around on the part which have been made in this gent the marked from a sured to cover up poor At, but there is a subles point to be made as with Constraint to resident a growing protein part from the point to be made as with Constraint to resident a growing protein part for the point to be made as with Constraint to resident in protein part for which is a sub-

les point to be made as welt. Constitute to real-time supposes just how weak vergome. Als tone heaps bean it supposed the nation is described. Accounts were withy the same appointment that were not shranging in XCOM-1 and 22 they just surt hand k his in more resulted in entry memory meals miss as work in his subset less in his local and any simple game programmers have been deprint dynamic routens of light off Als invited of just laking the places out of families beard algorithms.

gameplay Sovere penathes on busing up a legitimate board-meeting could help to put some real thrising and ideas five work into this title, something that would be a grant leap in distinguishing at from its predecessors.

ALL THIS AND A FACIAL
Of course, it inquidn't be a late '90's sequel

without the full SVA-graphics booth! The city looks graph, the a suffitted go SVA-VI 2000 city with loss of the monity whiches and the occasional stirt dimensional stift of temporary every storate to be corrent, didity smooth, the city place where the sight in securit upwaged in this graph, yet any stirt of the previous graphs. SVA-graphics have make primes, SVA-graphics have make surjectively the specific sights of successfully the appetits and siles, were varied upwards.

this will change before the final ver-

The real drawback to this geme is that it just ser't very daving or innovative. The designers sent so ourser what made the original great that they don't want to risk drifting fair from the formula, and this is bound to disappoint most of us who were hoping that the long was between X-COM 2

and 3 would evoke the game.

If may be debatable whether this game needed an increase in scope more than it needed a narrowing, but even with this single-city storyline, a little more effort could make it seem tess contribud.

All this point it is asy enough to say that if X-COM at and 2 list you earling more of the same, from Ancourse should stably. The latentists has been brought up to modern standards in everlying owopy multiple, could aside from that, the designess have played if salt and chosen not to take this franchise to a new leat. We'll just have be walk until July, when the first level from arrive, to see whether this understability assignit can be to me the instant classes the original ways. §











- ni Assassin, ni Yakuza abuser, ni Freak francer, ni Mutani mutilator,
- ul reason to be scared of the dark.
- ut Son-of-a-Bitch. So say Sayonara to
- all the flinja wannabes that have gone
- before and put on your combat sandals.
- to Wang is coming to the Land of the Rising Sum to turn out the lights.
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- going to hit the

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FIDE IC DEVICE SEDVICE 4944

Target Release Date: July, 199 Developer: SSI Publisher: SS

Lean, Mean Wargaming Machine

There's No Fat in This Bulge From SSG and SSI

by Tim Carter

in the winter of 1944 was a clasely quarried secret. Prior to the attack, no one at the Altred High Command believed the Germans would even launch an offensive operation, which supposts that the secret was indeed well lept. Appropriately enough, SSG's new Bulge wargame is being readled under similar conditions of secrety. The project is so hush hush, in fact, that it almost didn't have a name. Originally begun as THE LAST BUTZYPEG, SSG's latest recreation of the Battle of the Builde couldn't be called that, or many other more recognizable Bulge-type names, for a considerably more prosaic reason: The battle has been

he German surprise attack

through the Ardennes Forest

does so many times in both caraboerd and digital formal that the publishers had a real problem Inding a decent man that had not already been copyrighted. Thus, it is now the long windful, it serowhell descripting. Discover Bernus or WWIL The Accounts Greenow. When it drives on your hard disk, however, burn sur-

prise should be considerably more gleasant than the interfrymen tresh oil the boat—Merally—who well up Dec. 16th, 1944, to third a couple of SS Paneer Divisions in

strategic challenges, dilem-



mas, and trade-offs is this a bad thing? in Absolutely not.

What the toke of SSG seem to be earning for is not so much an entriety neer look at the Boths of the Bodge as it in a definitive, dark, and heighty physicals took it is a design that great players at of the options and the choices that characterized the battle, with the of the cumberes some problems that ranged the brandgames or the clumps entrietics shirt give in the way of

compativities anyomer. Decision Principle of the Cough ferrior. Cossion Principle bat all it ough ferrior. regolivity congestion, supply difficulties, bloom bridges, limited infalligance—all the components that make the Battle of the Budge to inferenting to strategy/inerganess. Also, it's one of the few Western front William gress both adds a chance to effect within a decent time law.





Like most Buige games, Decisive Barrurs breaks the majority of divisions down into three senarate regimental units A few independent battalion or regimental units also come into play as do engineers and independent artiflery

Each unit may have up to three steps which can be destroyed in combat and replaced through, well, replacements. As one might expect, as units become depleted their combat strength diminishes, so that your forces can be gradually eroded away. Thus, management of replacements is a key issue both for sustaining a delensive line and keeping the momentum when attacking.

The terrain is generally a pain to traverse, particularly along the main German axis of altack: It includes twisting roads: many bridges (that likely will be blown up by the time you get to them); woods on all siries. Lateral movement--cruciel to breaking out both from the starting point and tater Allied defense lines-can require considerable finesse and planning.

Speaking of combat, the designers have included virtually every factor one could expect into the combal tables, so that careful planners and good tacticians will be rewarded with considerably better odds. (See the sidebar for a more detailed exptansion.)

Following in the footsteps of many computer wargames of late, Deceave Bornes looks five a board wargame, with a hexagonally based map and cardboardcounter like units. As an additional homage to the Avaion Hill classics of old-including multiple editions of a Battle of the Bulge game-the stacking rules allow only three units per space. From the beta it looks at though

Dicsovi Batturs will be playable head-tohead, five via modern or LAN, or by email. As some German turns took me well over half an hour. I suspect that the error cotion will be the most frequently. used. As the larger campalon dames are only 32 or 64 turns long, this seems guite functional, and the interface and familiar turn-based system are well-suited to an email format.

One small quibble I have with the version I received was the lack of any kind

of historical variants. All of the scenario options appear to be based on a purely historical rendering of the battle As with many other wargames, this means that gamers get a single campaign game covering the entire battle and then a multitude of scenarios that each cover one small element of the campaign. A fittle variability in the armal of reinforcement, or perhaps some political linkering, could give the game added playability at Mile cost to

the historical version Sure purisis would be apported, but they can stick to playing the historical game and sending hysierical messages over Usenet. As for me, I file to have as many opportunities for new and different challenges as possible.

KILLER AT

As one would expect from the folks at SSG (and SSI, for that matter), the artificial intelligence looks pretty strong. though the scenarios were still far from being befanced at press time

All In all, I suspect that Dicesvit Byrtus will be a big hit with the wargaming crowd. The beta looks good, plays quickly and easily, and rewards those who are willing to plan carefully, count hoses, and fiddle with the odds.

There are a few missing preces. For instance, the traffic congestion markers on my version didn't display a number indicating the number of movement points addedwhich the documentation sais will be in the final version. Also, the computer never blew bridges when on defense, a counted flow that makes the Americans.

somewhat easy to overrun at present. But these are minor guibbles, especially since this beta was more fun to play than many finished products I've seen. Analost a human opponent, Decisive Byrrus should be a tense and enjoyable game, probably the best ever on the Battle of the Bulge, Now, when are they going to apply this system to the Western Desert? %



neat. Decisive Barries does a mast ttacks in such a way that most of is one would like to see in a w ne into pies. The results are tale, and for the nart, mascouble. They are also r th that you can't prodict every or and less sanguine gamers may find th al-free by the end of the pame. Here Lehr, 580 Intactry, and ele zer Division close in on Allied inf

its in the town of Marche The German player than comnits some or all of the units adjacent to the town. It's very asy to select and desciect lable units while ke eye on the final odds, thus

the right mix

og you to linker with the attack until you have just

The computer totals the basic attack and defense factors as well as boruses (or peneties) for visional integrity, supply or erochments. It then comites odds, which in turn are modified. The defenders get a four-column odds shift simply for being on defense, plus

additional column shifts for artitlery support within range. The attact shifts for attacking from multiple directions, for artillery, for leaders, and for air support

Having all the combet into you need on one scree is force management easy, and the co riversignity shades off units that have moved





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Barget Release Dater Summer, 199
Davelopen: Strategy Fin
Publishen: Strategy Fin

Admiral On Deck

Fighting Sail with a Command Perspective

by Johnny L. Wilson

I has been said that captains light ships, but admirals win battles. Strately Pirit's Nev or Vien is despread for those who harp to be the laster. Those who want to hight their ships independently like the young Hoselo Hallson will want to accord dies gams like the pitigue. However, drycene

avoid this game like the plague. However, anyone who wants to plan battles by pouring over charts, issuing doctrinal ordes, commanding via semiphon, and viewing the results of their commands brom a 3D dock will live New or View.

THE ADMIRAL'S GLASS

Important decisions are made in New or Weal better you near alight upon the poop deck. You must determine the actical distinuous which your tiest will oght before the game steal exclusify begins. At what range will your ship begin timing? How closely will they engage the enterty? It is your goal to board enterty ships? questions must be answered prior to the game's start, and will ultimately set the page of the whole game in a "captaints"

game, you decide the inclinidual course of your ship, the type of shot with which you'll load your cannors, whether to the low or high, and most impor-

tartily, when to the.

In Mex or Wex, an "adminal's" or "commodore's" game, you determine whether the entire last or one particular division will term the obtails or tollow the flagabily. You disciple when individual shape, a division, or the whole their trust make

more or less sail. You may crebe a damaged ship to drop out of tometon or signal other ships to more closely engage. It things are going exceedingly well, you can order the feet to engage in a general pursuit of the enemy.



As it did in the mostly last-based Simulations Canada game at the same

M.

FIRE ON THE UPROLL Mex or Wax does have some graphic flar; including canscriball solarities and smoler

with non-industrations. If you are a "control tests", you are suppring tests, cell in sub-first statisty, with toor of delating. Man or Who marply obsers! ofter enough to ob, it is, however, an install pame if you went a real tasks of command wither by up of you went a real tasks of command wither by up of poses a 30 delate, which seeing he comequences of your orders occurring on a 3D comman, complete with commondle statisties on the valor, ander othing toom enemy steep, and lateral commanders and the state of the state of the seed including the commanders of the seed including the time of a first product of the commanders of the most of test are mounted for an endustral out.

name, the action takes place in simulated tour-

minute lurns. At the end of the simulated four

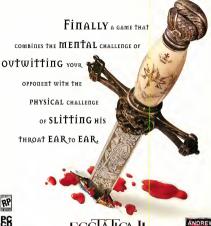
minutes, you get a chart view from which you can

signal individual ships, divisions, or the entire fleet

where it gets interesting for me.
The command perspective isn't for everyone,
but for three so inclined, Alwayer Way could be
the Horselo Nationa of bighting sail garnes. As a
command simulation, it's the kind of game that
would make Lady Hamilton proud. §



FORM LINE OF BATTLE Orders are executed from this view at simulated four minute intervals.





ECSTATICATI





Ecstatica II is an action-adventure game with an edge. A very sharp edge. An evil sorceror has broken the sacred Elder Sign, which guards the secret of existence. Recover the nieces, Restore order, Hack up anything that wets in your way. But beware. Danger Jurks around every corner, and it'll take both brain and brawn to survive. Can you handle it, pal?











"MDK IS QUITE SIMPLY THE MOST

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Jane's F-15

Taking the Lid Off Origin Skunkworks' Project "Big Bird"

n an unassuming office park on the outskirts of Baltimore, a team of designers is meticulously working to duplicate one of the U.S. military's highest-tech meanons systems. By poring over documents obtained from the Air Force and NASA, examining satelite data, consulting with ex- and active-duty military pilots, and gathering data from one of the most respected authorities. on military operations in the world, they've managed to replicate the most minute details. of this system. The project is covered by a

as to what they're up to, team members only own up to the project's ambiguous code name: "Big Bird." In late April, I traveled to Maryland and infittrated this secret office. The East Coast branch of Drigin Skunkworks, to be exact, where for the last year a team with credits that include such acclaimed sans as F-19 Strain Franta. F-14 FLEET DEFENORS, and F-15 STREET EAGLE 10 has been working on the next moduct for

Jane's Combet Simulations, As the first

shroud of utmost secrecy. When questioned



journalist to ever enter the offices, I felt like I was about to be let in on a great military secret. Some of the team members seemed anxious to spill the beans, white others appeared to feel awkward to be revealing what's been kent secret for so long. They cued up a video, and Desert Storm footage flashed by the screen Then the product name appeared: Jwe's F 15.

Yes, the Eagle flies again. Striking Eagle

The project is being headed by Andy Hollis, who's most recent product was the 1996 Premier Availd winner for simulations. Just's AH 64D Lougage Signstany was created by the other division of Ongin Skunkworks, based in

Austin, Treas). His newtons hit was Micro-Prose's F-15 STRIKE EAGLE III, so he brings a proven track record to the F-15 simulation. The members of his team bring equally Impressive experience, with products on their resumés that read five a fist of the best simulations of

Jane's has, so far, focused on two types of smulations: survey sims, such as U.S. Nevr FIGHTERS, where you can fly an entire range of related alveraft, and specialized sims such as AH-64D Lovosow, where a single arroraft is simulated in exacting detail. Jose's F-15 is one of the latter tocurring on the F-15E Strike Eagle, the dual-role strike lighter version of the McDonnell Douglas jet.

Model Excellence

the '80s and early '90s.

By locusing on a single aircraft, the team is able to simulate its performance and systems in exact detail. The most groundtreaking aspect of Jave's F-15 is the flight model. In previous sims, developers have cathered data on arcraft performance and attempted to create routines that will let their modeled planes approximate that performance data in common excumstances. The Skurfeworks fearn took a different annoach. They obtained the math that the Air Force itself uses to model aircraft characteristics-DATCOM a series of huge books that incorporate pretty much elerything the Air Force has learned about light-and they've incorporated those equations directly into the program. The DATCOM research was publicly funded, so it was available to the team-although not easy to obtain. But that was only part of the puzzle. The

DATCOM formulas model aircraft stability and

control, but in a general respect. To use them



LISMO EVGLE The F-15 pictured here is the ""felino" F-15C pero-vehter vertext; the F-15E models will a even more detailed



cuth you're modding, Luckly, the team was able to mist the help of a group of AF Footo engineers who suized the inclusives F15 per formation coefficients. Once the data was bugged on, the AF Footo engineers rain the same tests as the June's F15 term on they could compare and check the data. NASA documents were used to \$10 till the gap as for modeling different speecks and angles of attack.

The year's personal Privil requisitions at the plant's performance characteristics from the first hard performance characteristics from the first hard performance come, you will be sen's places at a comparation come, you modelly the such discussions, the performance clust you. Wheather any "On offer the sender one office countries," "So with the sender and residence and office countries," "So with the sender and resident one office countries," which we work a service of the right by the residence of the sender and the "It's there," but all the substitute of the places and the "So there," but any substitute of the places and the the places

microsed as "special case" frame. For the DACIOM formulas to work, you also need a very restation almosphare model. With this, you get many of the detale that other sims leave out control surfaces that have less effect at higher attroubes, and Mach numbors that change depending on afficiale. Juve 19-11 is filesy to be the first sim that approximates what it really feets like to pass through the sound barrier—transpric effects on aircraft handling are also part of the flight model.

All Systems Go

Once the initial data was plugged in, the team was ready to test the flight model. And when they first book their virtual Eagle into the sides, they realized something was terribly wrong—the plane was a bear to control, and ddd't feel right at all.

These was nothing wrong with their math. It turned out they were indeed properly modeling an F-15—an F-15 without hie Computer Avided Statelly (CAS) systems, that is, Although the F-15 isn't a ty-beywrite ascratt, it does have (and requires) a set of computers to outerfaced the basis instability that makes it so maneutweather.

Rather than trying to find a workaround, the learn set out to recrease the functionality of the F-15's autopliot systems. When you engage various autopliot modes—affluge hold, afflude hold, bank angle hold—the program doesn't just move the plane into the right position, it actually imparts the correct inputs to the control surfaces to stabilize the clane.

External stores—weapons and fuel banks—are all modeled with the proper weights and aerodyearnier drag. What Dees significantly different handring between a "clean" F-15E and one armed to the teeth. "It's gorna be a pig when it's all loaded up," says (Realte. When you release weapons, the plane's behave and perodynamics

will be affected accordingly.

Bocause the F15 isn't a billy fly-by-wire pane lise the F15, the fight computers don't put timits on what the plict can do, and that may excuse proclimes for gurners used to being able to jink the stick all the way back. "It you yark back on the stick in one of these air-planes, you'll fill's juvened," says krotig. "The F.



operate all the back-seat weapons systems officer functions.

15 will let you do what you want. This thing will pull a 15 dimaneuver and break itself up into a thousand pieces." Varying 6 limitistions in difterent flight regimes are part of the thight modes, and you'll find there are some flight modes where putting 9 Gs is a latal no no. Cockot seatoms are also modified with exact-

ng detail. The standard combat view will be of the









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प्रस्त

Views outside the cockpil are of the type used in Air Wesser 2 and Wessers, with eight primary directional views, as well as up and down medifiers for each view. It is hoped that the adoption of this viewing system by the Jave's F-15 team will help promote it as an

industry standard. The upfront control panel and the multifunction doplays (MFOs) of how functioning turbors, and you can work your way through representance of the F15's actual system mercus. This is provided not only for realism fairs, but also for those virtual prices who'd rather not have be learn departs of the provides as to consist the risk virtual actions.

The complete suite of systems is modeled, with a few exceptions. Although radar control is realistically modeled, for example, these are seaters made in the fortunal model rused used by actual F-15 pilots. Juni 5 F-15 will tathfully replicate all the ar-be-air and air-lo-ground.

modes that priots do use.
"We want to provide realism, but in a way where it's for the benefit of the user," says



Trike OFF, EH With 6% simb reakate world modul, yeleff tind takerts and findings have indifferent plans in different will nave, and which the plans relies unough speed, lift will case, the plane to leave the nurway.

Hotils, "We're not out to out knob and out switch everybody. What we want to do is provide all the options that are appropriate and provide access to them in an intuitive way."

That doesn't mean you'll need F-15 training to take to the short, through, Smythed modes will ado be not take, and realism levels can be adjusted for lindh-shart systems and stront ober-advanced for lindh-shart systems and stront ober-advanced. Where tallings are instruct, "Holds Systy," We provide if the real way, but also in a way where beginners can figure out how to do 4." And theat ho constitution for similar when the continue.

set to simplified mode. "Far be it for us to tell you how to have your fun," he adds

Sightseeing

After early stage, 1-515 in a past criming with only 100 purples could be a 1-50 feet of more done both with the down sput to stake story grathers. Including 11-60 purples could be a 1-50 purples could be a 1-50 purples could be a 1-50 purples could be used as a 1-50 purples could be a 1-50 purples could be much of a sealing ago between update. Here, the whole the sealing special between the seal and one of one grather purples could be used out on one one preference with an accompanie. It is a 150 purples could be used to the sealing seal of a 150 purples could be used to 1-50 purples could be the sealing sealing to 1-50 purples could be a 1-50 purples could be the sealing sealing. The time is propay seal of a color sealing sealing

ment over traditional 20 filters.

Real-time light sourcing is present. Many of the F-15E missions were flown near dawn and

McDonnell-Douglas F-15E Strike Eagle

Type: Ivro-sest, dual-role fighter/attack plane.

Power plant: Two Pratt & Whitney F100-PW-220 turborans, each rated at 23.450 ib. thrust.

Amament: 20mm M61 Vulcan cannon, up to 24,500 ib of external weapons.

Ammanent Zumm Mot vulsan cannon, up to 24,500 to or external we including AMRAAM and AIM-9 missiles as well as various bombs and air-to-ground missiles. Maximum speed: Mach 2.5.

First Ilight: July 27, 1972 (F-15A); December 11, 1986 (F-15E).

The FLES mention actor service but in time for the gird Mus, when picks—may skewn had done into en bashed activity on a firm less register—at an extent in exacut. The FLES is "Immission the facilities and example on 24 Mys." or of ordance 36 is a resist," of the risk of a pick and in a bash of a bashed greater because of their fighter part is norm.) produces sors, maying it a knowledge flag to the bash of a bashed greater because of their fighter part is norm.)

COVER STORY

dusk, so be prepared for some dramatic shadowing effects as morning breaks. Aircraft are also realistically fighted—as in real file, a glint of a canopy may be your first visual indication of an enemy aircraft.

Into the Action

The sim will leature three modes of pray: quick action, single missions, and the mission builder. Outch action lets you set up a digitalt against a single arcraft type, or a strike against a ground target that can be optionally detendation of the order and the order.

ed by at season. Single missesse became around the game's elaborate misses builder hist only will you be able to set the typical missess of evaluational trapel, we proprint, attitudes, deleters, and so on-tell the misses to little side on economies events. You can injuge actions in the optimized events and propriet actions in the comming events and any open procific largest, you can caref enterly a control area, for example instance of ossignating specific largest, you can careful an even goal, which is produced as many procific largest, you can greatly an event process of produced and produced as any processing and produced as produced produced as produced produce

Not only can you edit briefing feet, but you can also associate your own feet and voice messages with events. Debnets aren't feed for writings, but can be besed on a goal matrix where the text will very depending on which ick a number of pools were reached.

The campaign is plenned to mix the best elements of dynamic and scripted campaigns.

Expert Advice

etcop Wingo, a termer F-15 pilet, is an advisor for June 1-15 pilet, is an advisor for June 1-15 pilet above severed this rife for F-15 Sunse E case (IV. Along with his expositioned antiver on mission advisors and high modeling. Wango also provided a contraction that allowed has 8g and usen an autoprocedurated appointuingly to best their readiness; the was able to get internal user one 4-155 E book.

The following attentions and the lay for hours in F-15E simulating, checking performance characteristics, threigh FLOFUR tages, and incording recording sounds and the Bibbler Belly vision. They were also about to work in an inchedy grains that allowed her to more executions are the innetions of the various ewithers and MEDIA. In addition, they stepd intensives with



Fiftie pilotts and WiSOs, some of whom were posent Storm whosters.

If you want to get a jims stort in preparing, for the still, social a copy of Soline Region Flying the FISE in the Gulf War, by William L. Small wood, Published by Bissoy's, this issue large strongsorbus served as an entitload "bible" for this Bird's development.

Although the cumpages aren't tamoromly generated, your actions de affect future resistores bestory a bridge in one mission, and it will still be demotified if you by over it in the next mission. On a listwaring mission, you mission so portions fraight, and a dew missions fuller a per-stally built respectivement, in addition, if you first to take out a stoget, you may be traked later with taking not or good.

While individual missions may be prescripted, some elements are randomized, so you

- can't always count on the same interceptors coming from the same area. Aircraft: and larget locations can change
- A any risk, you won't be reliying missisters in a camegary in an ellect in buttler your score. Camptings are hended at a squadron level, and if your girbl is littled on a mission, you't in need to choose a many hist and wife's to lay as in the next one. Taking away the ability to rely a tatod mission adds another level of the state of mission adds another level of the part o
- Both campalgris in the sim are based around Iraq. The first is a historical campaign based on Operation Desert Storm; the second is a hypothetical campaign that assumes Seddam hadn't stopped at Kuwali, but had pushed into Sausii Arabia.

More to Come

There are dozens of other features that I don't have room to go into, such as assessible custom weapons tooks and optional resource management. At this stage of dovelopment, there is still plettly with or the even to add to the armitation. The withis and where of 30 can disport and mittigate pelay are still to be decided, and the missions are still under development. Due for a detailed, frambs on preview in thisse pages as June's F-15 grows clearer to nelesses.



DOWN LOW Real-time shadowing and software pixel whether work to righter to nive the desert









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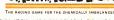


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Falcon 4.0

The Long-Delayed, Much-Anticipated Combat Sim Finally Nears Completion

e've been waiting for it so long, its code name around the CGW affices is Godet. But on a recent visit to the Spectrum Holobyte offices in Alameda, I saw evidence that Fucce 4.0 was indeed coming together and meeting its development milestones. The current plan is to ship the program before the holdays. That goal certainly looks achievable, but

considering that we first saw the program in late 1994, we've remaining cautiously applimistic. Faccos 4.0 is philosophically similar to its predecessor -- a detailed, realth-priented F 16 Fighting Falcon simulator designed to appeal to the hand-core excert sim pilot, but with simplified cotions to make the sim accessible to



New Dimensions

Although the Frucon series is centered much more on realism and gameplay than on eye candy, you can't help being blown away by the slm's graphics. Fxcctn 4.0 runs in 16-bit (64,536) colors, even without the help of a 3D card. On a 2D graphics card, terrain and aircraft look wonderful. Punning on a 30tx Voodoobased 3D card, the sim's display was so realistic that I was actually in danger of becoming air-

sick while watching someone else the As you'd expect, all the game's objects, in the air and on the ground, look dramatically better than those in Eucon 3.0. Everything is fully texture-mapped. The rolling terrain is smooth,

Falcon 4.0

un effects. You'll also be able to replace the ground features with Gouraud shading to boost trame rate on slower machines. Of course, all this graphics detail takes plenty of horsepower. Final requirements aren't available

without percaptible pap-

yet, but it appears that the sim will require a Pentium 90 if you have a good 30 card, or a Pentium 166 if you have only a 2D card Ontions abound in the cockoit. In addition to a lixed instrument panel, you'll find a scrot-

table virtual cockpit, as we'll as fulf-screen view with pon-up MFDs.

For situational awareness, three paclock views are available to track enemy aircraft. There's a tweaked version of the original FALCON 3.0 padlock system, a view that uses the virtual cockrit to track the enemy, and a Back to Bygrippo style setup with small windows that appear around your HUD showing the direction and orientation of enemy planes

Expect understandable radio traffic to enhance the cockpit environment, with wingman transmissions such as "SAM has lock, evasive!" to further enhance your situational awareness. Radio calls are handled realistically, with locations referenced relative to a pre-chosen point ("Target 55 miles north of bullsevet"). rather than absolutely



STRIKE in a territory this packed with Ho-eir missi us, you might went to co dur hugging the rolling termin



EQUIEAN EFFORT Escert missions will be among the many mission typus quality by Paleon 4.0's dynamic campaign

urbay 4.0 was designed from the ground. - up as a multiplayer game. To that effect, except for Instant Action, you've always running in multiplayer mode. Mission setup and the combat environment doesn't change whether you're the only one in the skes or you're playing with six friends. In fact, you could even start a mission as the only human. player and have a triend call and join as your windman while you're on route to the farnet.

The arm supports the TCPIP protocol for LAN, modern, and direct-connect play Bandwidth is the only limitation on number of players-there's no hard-coded colling. Ten has an exclusive deal for online multiplayer play so don't expect to see easy support for direct internet connections & that's the case. however, it's almost certain that Keli or a simi lar product will find a way to kludge free.

That's not to say that you shouldn't considor the Ten option, however, Not only will the matchmaking, but it also has the potential to provide an Art Wasses &/Wassens-style persistent arena. The development learn hopes. to work with You to create a server that will back the next day to find that 24 hours have cossed in the game world, the war has conliqued, and the bridge you blew up vesterday



CLEAR VIEW Pro-up MFDs list you remain in full-long in HUD view; a full Instrum, no consi

Mission Orders

Faccos 4.0 will have four modes of play Instant Action is designed to get you up in the air for quick combat. You can fly immediately, or configure air to-air or air-to-ground combat, your starting position, and enemy skill level. Sporing is based on a point system where each plane has a base score froughly the cost of the aircraff), and there's a modifier that depends on how many planes are shooting at you. You pay points for each weapon you fire, so you won't want to indiscriminately lob Sidewinders around. Docficht Mode is basically Instant Action tailored for multiplayer. Configure up to four flights

of four arcraft, which can have a mix of human and At pitots. Range, separation, start attitude, and weapons (all-aspect vs. area-only IR missales) are all selectable. Doghghts can be dynamic. where players can enter and leave at will, or you can start only when everyone's ready

Tactical Engagement is where you'll find the mission butder. A series of missions will be included, and you can design your own or downfoad them from the Not. You can configure withally every aspect of a mission here, placing ground troops, air targets, waypoints-- the works The mest of the came is the campaign

mode. This is a real-time, truly dynamic campargn engine. In fact, it's so reaftime that, as you're working with the campaign interface. planning your next mission, your airbase can actually come under affack, forcing you to scramble in its detense.

The campaign engine will provide you with a list of missions appropriate to the current battle situation. Drop you choose a mission, you can use the than planner to modify its parameters in addition to

adjusting waypoints, you can after allitude parameters and climb rates (best speed to allitude or a fuel-conserving climb), and set up pop-up attacks. Boules can be based on time optarget, or simply on speed. One of the preces of information you'll get in the mission briefing is the contrall levet. You'll

F-16C Fighting Falcen

Type: Single-seat multi-role fighter

Power plant: General Electric F110-GE-1000 turbofan, rated at 27,600 to thrust. Armament: M61A1 20mm cannon, up to 12,000 lb. of external weapons including AMRAAM and AIM-9 missiles as well

Maximum speed: Above Mach 2.0. d: February 2, 1974

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want to make sure you don't cruise at this level, or your aircraft will leave visual advertisements of your position. You can also view other active Hights. At a given moment, you might

find two B-52 flights and two F-16 flights. After selecting the F-16 flight. you could hop into the cockrit on mule and join the mission, as long as they're not already directly over the target

Three starting conditions are possible. The neutral scenario starts the bable at the current demintarized zone. The disaptventaged scenario guts. South Korean forces at the southern to of the country, with U.S. reinforcements just arriving. The advantaged scenario has South Korea pushing North Korean forces back into China-and China entering the conflict

Bells & Whistles There's planty more innovation planned for the program. Like Figures

Duez 2, Fracon 4.0 supports multiple processor Windows NT PCs, so performance manacs can take advantage of dual Pentium Pro machines. The avionics look to be amazingly complete, with all the requisite radar modes (as well as simplified configurations for beginners). A wide variety of weapons are available, including rear- and all-aspect Sidewinders, as well as both TV- and IR Mavenck missiles. The preliminary version of Evicori 4.0 I saw left little doubt in my mind.

that it's going to be a worthy successor to the classic Fuzzov 3.0. At this point, the biggest question left in my mind is when can I get my hands on it. It's hoped that Microprose will meet the release date if they do, simpilots will have plenty to occupy themselves on those cold winter days.



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Sabre Ace

3D Air Combat Over the Skies of Korea

or a makfor buth, the Kenna Af Wile is perhaps the root flacoroom great little in elebery. I focusion the ultimate in prodires allowed buthley for lest jet, or an ago botom emiliars. Not chet the tim out of Lousz Yazzari, Allowari, Coucer a law year butble the production of the Coucer a law year butland the desemblic Kenna arrain in Ale Warres, the conflict the botom greatly by any producers are not begal of the Allow Scholl The Kenna Af War is fairly griffing the deserved spolitify, and Wagning School Art and English Med Aut and the Marked to the botom year and of COW mostly necread as list action version of Saari Acu, and of tools like the makford for a most self-real free and the school and the production of the school and the school and the school and the production of the school and the schoo



Sabre Ace

fod piclense Dato: Soptember, 19 per: Kaglio letamodica

Flight Line

Some Ace allows you to filly on both sides of this conflict. On the American side, you'll start with a series of missions in FSID Misdangs foul'it their programs to the straight-imaged F80 Stooking Star jet, and finally just the swipt-Ming F80F Sofra. On the Russian side, you'll start in the proordings file and move up to the MG-15 jet.

in addition, there's a series of training musicions to bring new players through the basics of based and landing, navigation, ground attack, and air combat. An instructor stay you through each task in a manner similar to the original Fusion Ususwino. You'll start in either the T-6 Texas or the Yah'-18, depending on whether you're typing for the American cide or for the Russian or for the Pusicion. Mastions are prescripted, other than dynamically generated, and the detail is very impressive. Veloco communications run throughout, giving your flight leader and wingmen personates. In addition, you often encounter other affect already performing series in the same area. Your 65% thight inglight be tasked with belien or in series of brindses while 82% invades to both a nearby affect.

with beling out a series of bridges while B-26 involves bomb a noutry airfield. In addition, some of the mission on officient sides of the war ner life logather. In one American F-80 mission, you're tasked with escorting General Modeflath's G-64 bursport from Jupen to Suvern. In a hide finision, you'll the to shoot down Modeflath's plane before it can land at Suvern.

The 45 missions are divided between flying escort of bombers, transports, and photo recon sircraft; flying ground support; and flying comball



SMOOTH FLYTING You won't see any blockiness on the ground if you have a 30 card, as Sourc Ace supports blinear littering mid other 30 tricks.



COVER STOR





patrots. None of these are malk runs, so don't expect to work your way through them over a weekend. Armament includes guns, unguided rockets, bombs, and nagelim.

In exidition to the scripted missions, there's also a custom flight section where you can set up battles with up to four aircraft on each side. You're limited to the planes that are flysble in the campaign mode, but your wingmen and opponents can fly any of the aircraft in the sim. If you just want some basic gunnery practice, set up all your opponents as unarmed C-119 Flying Boxcars. You can adjust time of day, enemy skill levels, starting afflude, and cloud cover.

Although it wasn't yet implemented in the version I tested, developer Eagle Interactive also promises multiplayer support in the final product. This will be head-to-head air combat, with a setup similar to the Custom Flight section.

Stick and Rudder

The flight model tuning wasn't complete as of this writing, but initial indications are positive For instance, the MiG-15 is suitably touchy at low spead, and you'll need to be careful not to depart from controlled flight when landing. The version I flew had a G-limiter that prevented you

from pushing into accelerated stalls, which makes the plane's vertical maneuvering a bit. sluggish. The flight model is still a work in procress, though, and it's hoped that the maneuvering problem will be eliminated, or at least be toggleable, by the time the game ships.

A unique feature is Formation Augmentation. a special autopitot mode that makes it easier to maintain your position in formation. This is esceclarly important in early missions where you won't be fiving in the formation. If you want to fivmanual formalion, you'll appreciate the padlock feature, which aways between the various cock-

pit views to keep the enemy in sight. Swee Act is one of the first flight sims to use Direct3D. On a Rendition-based Screumin' 3D card, the game had one of the smoothest frame rates I've seen on a texture-mapped flight sim. Performance on 2D only cards was acceptable as well, but final judgment will have to await the release version. Explosions, serial flak, and other

effects (such as real-time light source shading on aircraft further enhance the sim's visual assess. With a wide variety of never before simulated aircraft, immersive missions, and good 3D card support, SABRE ACE looks ready to launch the Korean War sim genre with style.

Phantom Ace

acte interactive is also hard at work on - its next simulation, Physician Ace, Set in Wetnam, this synulation will gut you in the cocknits of Air Force, Navy and North Netnamese alteraft. You'll be able to load. your saved Sasse Ace clipt, simulating a Korean veteran flying in the next conflict.



NICE PANELING PASSESS ARE WIT SUBJECT authoric instrument panels; even the F-48

and F-4E parals are moduled separately Flyable aircraft include the F-B Crusader.

F-48 Phantom, and A-4 Skylowic for the Navy: F-100 Super Sabra, F-105 Thurd, and F 4E Phantom for the Air Force; and the NIG-17 and MiG-21 for the North Vietnamese Air Force (where you'll fly as a Russian citol). In the Eagle Interactive tradition, there will also be a wide variety of other period aircraft present, including the F 104, B 57, A 6, RA 50, B 52, KA 3, F-111, and F-5 Skooti Tiper

Carrier operations and aerial refueling will add new challenges for pilots. As in Sweet Ace, there will be a training safebus. This time you'll be able to fly the \$2 Buckeye, TA-4 Seybank, T37 Twent, and T38 Trion. PHAROM Ace will model the technical advances that occurred as the war progressed. For instance, early in the war, ECM jamming and radar warning receivers weren't common. so you may not have their benefits on early mis-

sions, F-104 Starflotters will only be in the theater early in the war. F-fffs only near the end. Eagle Interactive's Gary Kinney says you won't see any flat terrain in this game, as the game will simulate the actual topography of Vietnam. So be ready to follow Third Ridge to your target sometime in 1998

F-86 Sabre Type: Single-seat fighter. Power plant: General Electric J-47 turbojet with 657041, thrust Armament: Six 50-caliber machine guns Maximum speed: 670 mph. First Hight: October 1, 1947.





Fighter Duel 2

Your Chance to Enroll in Advanced Fighter Piloting 401

he objective of Figures Duel 2 is to make a fighter pilot out of you. So says SPGS dormerly Jacquer Software), the small but dedicated Maryland-based developer who's been at the forefront of realistic World War II air combut since the release of the originai Figure Due, on the Amica back in 1991.

The first PC version of Figures Due, was released in 1995. It was lauded for its superb flight models, great tramp rate, attractive pircraft graphics, and its exhitarating head-to-head combat. But while Figures Dury, has remained nomiter as a multiplayer name (especially after last year's release of the free Net Duel add-on with support for up to nine players). It never fully succeeded as a stand-atone experience While enemy All could be quite challenging. especially on faster machines, there wasn't much variety in how and where you'd meet enemy chanes. With the lack of a distinct mission structure and only a single terrain area. (which was mostly water), single-player. FIGHTER Dury, just didn't have the gampplay longevity of the multiplayer experience.



Dut. 2 is released, however. Along with building

on the strengths of the original, this version plans

to attack its predecessor's deficiencies head on.

rus Drie: Winter 1957 That should charge late this year when Fromer

Corsair, P-51 Mustang, Fighter Duel 2 A6M Zero, FW-190, and Me-109. New avcraft will include some familiar to versions of the game,

and P-47 Thunderbolt. Some of these will be

represented in multiple versions, such as the P-

nlavers of the later Amiga. including the J7W1 Shinden, P-38L Lightning, Mo-163 Kornet rocketplane, Me-262, Tempest V.

> 51B and P-51D. as well as the

P.478 and P-470. For the first

time bombers will be included. s wet. In keeping with the FIGHTER DUEL

tradition. though, these won't be big. tumberins. tour-engined

targets, but rather twin-engined bombers with forward tring ouns that can hold their own in a battle Look for the AR-234C Bitz, the B-25H Mitchell, the

Missubshi Betty, and the DeHavilland Moscito. Four instrument panels are included, one for each nationality. The decision to do generic panets for each country was biofold. First, because real instrument panels don't til the aspect ratio of a video screen well, you'd have to make it pretty small to see the whole thing; a generic panel can be fallored toward the best compromise between a malistic look and madebility. Second, creating common panels gives SPGS more time to create new arroraft or arroraft vanants, which add more to gameplay than historical instrument panels. Although the panels were still being cendered when this was written. Figures Duc,'s panel still stands up as the most impressive ever seen in a sim, so Fighter Dub.

2's should look even better

The Lineup Like all its previous incarna tions, France Dutt. 2 focuses on the fighter plict experience. But instead of simply tossing you into various aerial melees. the sim will include both individual missions and a configurable campaign mode A whopping 25 aircraft are

planned at this point (with the possibility of even more), all of which are flysble. All the planes in the original Figures Due. are there, such as the F4U



WASH ME Aircraft detail opes down to culticust or corn of the side of the fundame: the prop on this Hallest has about as many polyoons as the othe Zero in the Arrios Fourte Don.



TROKE'S LUST ROTES An Me-202 closes for the kilk note that the terrain in these ahots is preliminary nd the letal ground graphics should look even better.

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COVER STORY

The Unfriendly Skies

The Fighter Dutil, series has always been known for realistic flight mode's (witness the inbal negative review of the 1991 Arriga version in these pages, when prop torque prevented the reviewer from successfully taking off from the aircraff carrier). Figures Duez 2 aims to improve on this modeling many more of the individual quirks and characteristics of each aircraft. You'll find ground effect, engine torque and yaw, weapon recoil, and weight loading all realistically modeled. For added realism, torce-teedback rovsticks are tully supported.

Enemy pilots don't have any cheating advantage in Fighter Due, 2-their aircraft have

Graphic Excellence

grates from the basic 2D-card version of Figures library to provide native support for 3D cords as well, using 65 536 pajors with hardware acceleration. As of this writing, SurRender has announced support for cards based on 200s. Personid 30, and Marray Mustique autretectures as well as MAOC in addition. SurPatider can interface with Microsoft's Direct 3D to support other 3D cards. Because Fromm Dutt. 2's source artwork is in 24-bit color, when 3D cards that display 24-bit color (instead of 16 Mill become avoights, that support can be introffed.

Fighter Dury 2 will require a Pentium processor, and will support multiple processors under Windows NT. The designer's target threshold is to achieve 30 frames per secand for smooth play. Duners of 3D cards will have no bouhis achieved this... the early development version gener. ates over 200 trames every second on a Pentium Proequipped with a 30tx card. That's taster than the card care cubult to the montor. On slower Penlium sistems, the simwill automatically reduce the level of cidal and polycon. complexity to match a user-detinable frame rate.



10P Rome Day 2 will include the ability customic: the markings of your alrest! (But this J/W Shinden will come with a default point(b).)

F4U-1D Corsair

Type: Single-seat cerrier-based fighter.

Power plant: Pratt & Whitney R2800-8 radial enitine providing 2,000

horsecower at takeoff Armament: Six 50-caliber machine guns, 1,000 ft of bombs of

eight five-inch rockets. Maximum speed: 417 mph at 19,5 11 fast

First flight: May 29, 1940.

the same thight model restricfions as yours. All pilots were pretty good at exacing your tire and getting into attack position in earler versions, but look for a greater challenge and more historically accurate comhat here. Be menared to tace immelmans. wing-overs, barrel rolls, split's moneyvers,

and hammerhead stells. If that isn't enough to make enemy aincraft harder to hit. look out for the more realistic ballistics model. When you do score a hit, the damage model determines the exact part of the plane that was hit. Chunks will fly off the plane, and even these have realistic. aerodynamic models-watch one long enough and you'll see it tutter down to the water and make a splash. When verlous parts of a plane are weakened. structural tailure becomes a possibility. Your wing may stay attached when it's initially shot up, but pull to many Gs.

and it will secarate from your plane The new particle system looks breathtaking on a 3D card. Look for tiames realistically licking out of damaged engines, with the tire lighting up the areas around it in real time. Aircraft and terrain feature real-time light-source shading as well.

Speaking of terrain, there will be plenty of variety this time. In addition to varied, realistic terrain based on dicital elevation. maps, there will also be areas specially constructed to enhance the doublobbing experience. The Armoa versions of the sim had a burst such on one island, which was

totally unrealistic but added some interesting elements to multiplayer doptions Look for it-or something similarly bizarre-to return in the new weeken

Mission Critical As mentioned before, the trippest weakness in previous versions of the game has been the tack of meaty missions. This should be addressed in a big way with Figures Duel 2. Although the mission system wasn't yet up and running when this preview was being written, developer Malt. Show promises "scores of tailorable missions to By including escort, CAP, day and night intercepfrom ground and sea attack, and bombing missions" in addition, a continuable compaign mode will let you customize a campaign's difficulty and allow you to choose which planes you can try and try against. Missions will be dynamic in nature, so you won't experience that "okey, now I need to watch for the Heficats that will pop up from behind that ridge" leeling of délá vu.

As part of the effort to make a fighter pilot out of you, a training area will let you practice tlight, gunnery, and bombing basics before taking on combat missions.

Figures Durt. 2 has TCP/IP network support. for LAN and Internet play built in, and missions can be flown either solo or with (and against) human players. Special care has been taken to halance game speed so that players on taster machines won't have an advantage in multiplayer mode. Your machine may be three times taster

than your buddy's, but you won't get from point A to point B any quicker than he will. FIGHTER DUFY 2 looks lifes a notential passis. in a desert that's been starved of World War II

sims for far too long.

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Live endranments feature concession effects, terrain deformation, and integrated road and roil systems which offer unpassibled interactions like tornal fin-chapushs



Hine WWE circust deplicate plane physics for trae-to-life depliphing maneuvers such as stup rule, beil slides inmelments, berryl rolls and spin outs.



Customzable planes, an objectivebased mission editor, multiplayer combat and native 3-8 card support with up to 36 frames per second.

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Flight Unlimited II

The terrain model was created using a combi-

nation of satellite imagery and chattal elevation.

mans. The satellite shots that Looking Glass used

Flying Free in the Busy Skies Over the San Francisco Bay

ay what you will about its lack of combat, Looking Glass's Fucur Unumne set a number of new standards for (tight simulation. its craphics were nothing short of breathfalling, and its aerobatic flight model was unprecedented. But after tearning the sim's. aerobatic maneywers, there just wasn't much left to do. Because the terrain repeated, even simple cross-country flights were out of the question.



Flight Unlimited II

objects as you approach them. The only time you see haze in the game is when the air really is

hazy-it's not used as a crutch to limit the amount of terrain that must be rendered. Despite this detail, the early version of the sim had a good frame rate on a P133; the team is hoping to add Direct3D support to give



across the windscruot.

Enter Fusier Usuarreo II: Unlimited Adventures This general aviation simulator once again sets new standards, uppoint the craphics ante to a higher level and creeting the most defailed environment yet seen in a PC flight sim. When it's released this summer, it promises to make as blo a solash as its esteemed predecessor.

Bay Area

FUGHT UNUMITED II offers unprecedented detail in terrain, navigation resources, and airspace management. To accomplish this, the designers focused on modeling a single terrain area--- 11,000 square mitrs surrounding San Francisco, California. That's a far cry from the original Fuger Unumreo, where each geographical area featured a reproditor four-square-mile terrain map. The Bay Area is modeled at a reso lution of four meters per givet.

Plane Facts FLIGHT UNLIMITED II Includes six flyable pircraft: the Dessna 172 (both land and seaplane variants), the Piper Arrow, the twin-engined Beech Baron, the DeHavilland Beaver seaplane, a Grob safelane, and the North American P-51D Mustang. The latter aircraft was the most requested by FUSHT UNUMETED users. They were probably requesting a combat version, but for this release you'll have to be satisfed with thing it as an unarmed warbird. (The Looking Glass team is definitely hat to do a FLIGHT COMBUT game, and hopefully that will be need on their plate after they ship FLIGHT UNLIMITED IIL) The sim doesn't use the original Fucur

were taken in the early morning, so buildings and other features cast turne shadows, civing even flat 3D-card owners an extra speed burst imagery a 3D look from attitude, in addition, all buildings 10 stories and higher

are represented by 3D models, as are major landmarks such as Alcabaz, 3Com Candestick Park. and NASA Arres.

In a major improvement over the original engine, terrain polygons no longer pop up and down as you pass them, but rather remain solid at all altitudes. Also, voi:/E never see buildings or hills suddenly popinto existence from nothingness. The FUGHT UNJMITED II engine always renders everything in visual range, aciding detail to





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LEAVE IT TO REAVER The DuHavilland Buyur introduces a r. ar elem..nt to sims—writer landings.

towards aerobatic arount, but this one seems equally impressive. The CTY2 seems to handle just like the self high both in normal flight and in the salt regime. Looking Glass took actual aid or the salt regime. Looking Glass stook actual aid salt reactions to ensure this sem's accuracy. Focal conductive controllers are supported if salt reactions of the settlement of making.

year to loading for that other outcoor of enabling.
As you'd expect, the prains to lock growth recition of the control of enabling and out, inch unmaring preside and by the state of the separation and design, but on the expect of the separation and design, but on the expect of the

Speaking of traffic, you'll never be alone in the Fusier Uneverso II sides in addition to your own alrosalt, there are 25 additional arcraft modellod. These include artifines such as the 737, 747, 757, 777, MD 88, and DC-12 civilian sincest such as the Classina Chibon, Leavier, and Beech Stansing, and military planes including the A-10, F-16, F-18, SA-71 Stackendy, C-5, C-130, and the Chinock helogate: Wu might were encounter the occasional Geograps Stimp or that air features. There can be us to \$400 around the property of the contraction of the contr

There can be up to 450 arcraft in the air or at airports at any time. The actions of these planes aren't scripted, either. They il tool

ach is scrippor, owner, may have realisticatly account SFO and other altiports, entire landing patterns, and do all the other things you'd normally see in the sides. And if you get in their wag they'll lead to you with easilve mansuvers and annead undo coils.

Runways All Around

Future Unitarities III models all 48 airports in the Bay Area, surging from big informational airports in Sen Francisco and Oakland down to all the fills encontrolled private airports and grass strips on farms throughout the area. Also, the floatplanes can laind on various bodies of water. With its distilled scenery Future Unitarities.

is designed partnersly as a visual flight rules (VFR) sim. Full-blown instrument flight rules (VFR) sim. Full-blown instrument flight rules (PFR) captifities as three as well, with rules (PFR) captifities as three as well, with rules if some of the forms used have no first flight on the full rules of the flight flight

Ground Control to Major Tom

ull tion ar traffic portrol radio commumentativa is being simulated for the sear time in Facilie Meximize. 2 Wenn on bined with the radio But fines can be up to 450 other award, sharming the affects with you, this adds immosely in the artis' immorration. Gitturd, lower, approach, disparture, Unborn, and XTS Externation frequencies are all active and processing and additional controls are all active and processing and active active and active and active and active and active active active active and active active

any packed velocities is take. The fairly better content of the fairly better counter, there is take the fairly better counter, the fairly better counter, and the beginning fairly better counterfairly, any packed to promise fairly and the beginning of the communication. Any packed the second of the packed of the fairly will find be fairly better down the second of the packed of the second of the packed of the fairly better counterfairly as only the fairly better the fairly better counterfairly and a more upon bedding the packed of the packed of the packed of the fairly and the packed of the packed

trois. The focus is on what you need to know to play the garne—warnabe priors looking for all the gory details may want to pick up a copy of Serra's Pro Picc as well. You might even try adding some weather effects. Fuserr Use, write 2 will support live cloud decks, as well as realistic rain.

To get in the air, there's a quick flight setting this style chose basic condition and you location (in the air at a specific spot, at an air-port, or on a 3-mire approach to any runway in the game). There's see some amore suphisticated flight planning tool which lets you intractively set up routes on a distant sectional chart.

Your flights can take place during various times of day, but there's no real-time transition, it was too difficult to implement convincingly with photorealistic terrain.

Fusint Unumero III should please anyone with an interest in real flying. While some may find the single prographic area limiting (add-on discs covering other regions are planned), the tantastic detail more than makes up for it, and the San Francisco Bay

area has plenty of variety. %

Cessna 172

Type: Four-seat general aviation monoplans.

Power plant: Lycoming 0:320-E20 four-cylinder piston engine reled at 150 hp.

Armament: Whatever can be thrown out the windows.

Maximum speed: 151 knots.





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Flight Sim Reviews Index

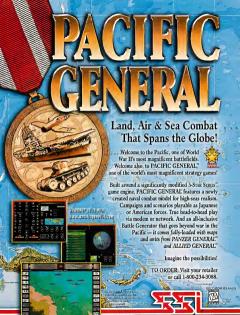
The Good, the Not-so-good, and the Ugly from CGW's Past 18 Months

Simulation	Issue	Page	Publisher	Rating
EF2000	Jan 96	52	Oosan .	***
Fighter Duel	Jan 96	290	Philips Media	****
SU-27 Flanker	Feb 96	186	Mindscape	****
Black Knight: Marine Strike Fighter	Feb 96	200	FormGen	***
Top Gun: Fire at Will	May 96	202	Spectrum Holobyte	***
Advanced Tactical Fighters	June 96	150	Jane's Combat Sims	****
Slient Thunder: A-10 Tank Killer 2	June 96	154	Sierra On-Line	***
AH-64D Longhow	July 96	164	Jane's Combat Sims	****
Back to Baghdad	Oct 96	254.	Military Simulations	大大大 市大
F-22 Lightning II	Dec 96	382	NovaLogic	***
Hind	Jan 97	256	Interactive Magic:	***
USNF 97	Feb 97	185	Jane's Combat Sims	****
Flashgeint: Kerea	Feb 97.	188	Jane's Combat Sims	***
Flight Simulator for Windows 95	Feb 97	192	Microsoft	****
A-10 Cubal	Mar 97.	164	Activision	大大大大大
Jetfighter III	Mar 97	170	Mission Studios	****
Flying Corps	May 97	152	Empire Interactive	***
Air Warrior II	June 97	142	Interactive Magic	****















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Ten Ways to Kill Bugs Dead



When on Bug Safari, Know What to Bring

by Loyd Case long time ago, in a well. anyway, quite a few years ago. I did some backmarking and mountain climbing in the Pacific

Northwest. These was a clob in Seattle. the Mountainners, that come up with the idea of the Teo Essentials. This idea says that if you so trainsing off into the wildeness, you should-at a minimorn - take alone Ten Essentials These include obstons items like extra food and clothes, and not-so-obvious that necessary) stems bloc supplesses

and sunscieen Along those same lines, these are some tools - software and hardware that I frequently use when burning down on observe system beer And since any scally mod idea is worth stealing. Ed bke to offer up my Ten Essentials

for computer troublesborting

► If you're considered added more. memory to improve your machine's performance, consider carefully how much you want to add, in some cases, you can actually add too much. Every Windows 95 system will benefit from

1. Nortes Unitines Whether you're still ming DOS and Windows 3.11 or have fully made the move to Windows 95 Norton Utilities is a must-have item frust don't use the older versions on Win 95 problems). Through I generally don't find much use for items No the System Doctor tools No Disk

Dector and Norton Diagnostics (which only ners in DOS) are involvable. One feature that I was in trilly depriscal about is the System Genie But once you get by the overly-cate interface, there are some very nice sems in these. Word to change the way Windows 95 handles long the corner? Consult the Cente West to Inde some of those nesky deskton yours? Consult the Gerie Wart to be some. rich, and thin? Well. If you want to hide some dedon icors, count the Cense at

www.symantec.com/au/index.html

Z. Poner Tous

This explains set of propagated -- but free - Windows 95 tools from Marrosoft is involvable. The most useful tool is Twentel II which allows you to change a number of Win 95 options - and not tust the user interface. You can chance boot

options repair damaged irons and yes. change some user interface options.

If you have a clutte red desiston, but often can't easily get to the desktop because of multiple open windows, click on the Deskineru icon, and you'll get a menu containing all items on your desktop Download Power Toys at the following address www.microsoft.com/ window/common/contentW9UCBhtm

3. Sames (gra At the same URL as Power Toys, you can find Kernel Tays. These are utilities

that make life easier for the DOS statuer. When you run a DOS game from Win 95. a default set of condition exists, as set in the SaturEALTOEXECRAT and CON-FIG SYS files. One of the Kernel Texas. DOSWZCEC allows you to change those defaults. But, the user interface is a little on the arrows side. Another Kernel Toy called DOSWINKY deactivates the Windows icon key on the keyboard when

running DOS gunes. Nuff and 4. Win 95 Control Fanci's

Though Win 95's built-in diagnostics on or incomplete the Device Manager

Memory Upgrades: A Point to Consider

having 32MB of memory. In most cases, even 64MB can be useful. There's a temptation to think that more is better but 'tain't necessarily so. For example, systems using the Intel 430VX and 430TX chipsets can't cache memory above 64MB. Some motherboards using

the 430HX chipset can theoretically cache un to 512MB, but only actually cache the first 64MR if the worder has skimped and left out the necessary TAG RAM, which stores cache memory addresses. If enough on't present, highor memory addresses won't be of

There are some tools that I frequently use when

hunting down an elusive system

bug. 📕 🖷

Yau can reach Layd at his new email address: lcase@pacbell.net

HACananacat form on 170 If you have an older \$3-based exercises and such as the

graphes card, such as the Diamond Statills 64 or Haroules Bernisseter Pro, you may notice relatively poor performance on some Windows 95 games. It hums out them's a conflict between the Win 95 drivers and the Win 95 acceleration shaller for hum off the Win 95 accelerator feature, right click on My.

Who's In Charge Here?



Computer, click the Performance tab, click Graphics, and game runs faster, then you've have the accelerator slider solved the problem.

shading how can be a very good statistical point fundation in shooting constitution point fundation in shooting constitution and so your box for on het West 97 stitution installed on your box for on HO source conflict. Brainsput the Cornell Parish, draw blooked on the Sportine, and solved the Chevick Manager that should be a being of clover, and any model toward on the angel of the shooting of t

5. Sy arest 5 July 1.5 The Soiss is a L5CB, removable hard

chaive system ghich

this from Syquest, and the external version is two, yet, two drives in one its primarily a SCSI drive, but also comes with a parallel-to-SCSI adapter cable, has buy the "parallel post" venion of the Sypet and you also get a SCSI claive. It use the Syjet for backup it comes with a furthed, but very useful, backup

withly 16 fast, easy and once you make the up-foot assessment of \$500, cheap Cantridges out abound \$425—less than ten cents per magalayte. Burking up to this halp has seved my bases on assessed occusions, And, because it is of set, I back up more often for more information, check out www.ayquest.com.

6. WinBench 97

Huh? A benchmark in my set of troubleshooting tools? You bet On a number of occasions where things seemed to be

contrag slowly, fee used both the Walberts Caspine. Walshark and the CCPU-Masks to see fine yeatow now reuse in gu to to stuff. A couple of times, fee uncovered or shell down-down owing to doke he left riven in time place been matched welfout my knowledge. Walberts high green to basedour performance figure fin get Walberts, check out www.adbop.com.

Cancel

J. Schools Display Dector Schools Software's Display Doctor started out life as UniVBE, and allows non-VBE (VESA BIOS Extensions) graphics conds to may VBE hased SVCA-

graphics could to may VBE-hand SVCAgraphics resolution games it had to comes with other useful triffness, including VBETest, which checks your graphics and for VESA complainers. Since I go through a lot of pupilies carella, Doplay Declar is an involvable tool at \$35. Described a triphyour version from Stritch at www.cettech.ubd.com

S. He can be preserved to the constant of the

midding tempers in ardward location, and getting with hard-to-much spots.

The Partition for the Every new and them, a ufflay comes along that fills a long-suffled gap. One of these means are a triffer's programme.

hard disk. Microsoft has supplied FDISK since the cerly days of DOS, but the basis user interface is still the same Partition Magic deans up the interface with a graphical fluid new-windows) interface. While hardly for new disks, Partition Magich and benefit course when you

want to reconfigure your costing drive. I recently installed OSR/2 (OEM Service Release 2) of Wm 95 so I could add the EXT32 file system to my disks EXT32 removes the 2CB disk partition limit and expands it to two tembytes Normally, I would have had to back up all my drives, run FDISK, reformat my drives, reinstall Windows, reinstall my backup program, and finally, restore my fles Partition Magic 3.0 allowed me to change all my partitions to EXT32 withcet lower a byte of data. Download the 3.02 potch from Powerquest before attempting to megge volumes. Check it out at www.powerquest.com

10. Recovery thisk

A recovery field is contriled whether you me the 'Me 97 Cortied Parel to create a beating care forwing 100 February 100 Fe

KEEP THINGS IN PERSPECTIVE

If you find you nell getting front nice and reaching for a humaner, while step Remember that a world ceiss to strike of that beige box sitting on your deals. Cet some sixtp, result good book, or toke a well. It is answering how saunchines a solution will be supported by the support of the supported by the suppo

problem. Computers should only be a cheerson, like the games we play on them. As I check the clock, I see it it time to get going. If most for a good cloy's like I of guess that new another/one will have to you unfill meet week. To

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had 200MHz Pendum processor with VMB 32MB SDRAM \$3,159 4GB Litro SEST bend drive Micros 17FGz, 25do (15.8° cleatest

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Pretendet Bystem#illsand application for automoted problem research Quedus Financial Peli, Fermy Peli, Microsoft Home Pe 5-enar/G-year Micron Player lighted works to

\$1,599

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22M3.EQD PM6





HERE'S

YOUR SALT

AND PEPPER.







nly a few years back, there seemed to be sound cards coming out of the wood-work. Everyone was doing one, and few the 30 organ-less chics of today, there were a host of boards from a wide array of vendors. Changes in the landscape of the sound card martes thave driven off all but a brave

Prick up Your Ears to the Cleanest Digital Audio/Wavetable Sound Yet

few—But only long enough for them to regroup. A stew of ohip makes here recently announced PCN based audic chippests, most of which will make inter debut later this year. These new chipsest will bring a coulse of thirties to the party for gaments, but chief among them will be positional SD-audio butchhology. Herit's a look at one such board that's ahready here, Diamond's Monster/Sound, as well as a look at some of the feation now PCN seasor sound cards on the marsia.

Diamond MonsterSound

Of the most interesting products out there is Diamond's new MonsterSound. First off, this card goes into a PC stat, not an ISA slot. And given how crowled the ISA bus has become, a PCI audio

goes into a PCI stat, not an ISA stat. And given how crowded the ISA bus has become, a PCI audio card is a wetcome change. The PCI stat is no gimmics, inveser—this card needs PCI's

er—this card needs PCrs additional bendwidth, because it's a true positional-30-audio accelatator card.

The technology behind Montes/Sound was developed by Areal Serriconductor who is something of a Phoenix, having risen out of the ashes of the old Model Vision baringstoy and then merging with Crystal Piver Audio. They're now focused strictly on developing 30nostitored audio crisis.

The MonsterSould is the first finit of Annal's 3D aution technicays to hit comparing sides exhibiting yet better about the sides of working in DOS actuates model There is Sound Baster om matrion software that this DOS games marring in a Vendows SG DOS bot Balk there! a Sound Baster present, but Demonst strongs in accommendation.

bemond strongly floormensis impelling up and installing the MosterSound is the audio equivalent of installing the company's short of installing the company's Moster3D graphics card. You find a free PGI stat, insert the card and attach a pass-through catife to your lessery sound card.

>PROS: Best 30 audio rendering in towic good, clean digital audio.

PPROOSE BEST OF AUTO IN TOWN; good, clean digital a Inc ONES: Mediacre szaretable; PCI slat nesded; legacy sound card required for

netable; PCI t needed; and says sound of required for needed for needed; and needed for needed for needed.

Feed the drivers CO, and the MonsterSound is good to go. Once installed, you really need to run the demos to understand what the MonsterSound is all about. One depicts a graphically crude hetcopter flying shake you.

behind you, and all around. The overall effect, while not completely realiste, is constituted as cylin star-ling—if a exally

the best positional 3D audio l've heard, and it only requires a pair of speakers or a set of headphones. The Monster/Sound also has a www.table synthesizer with a 2MB wrvetable set. The patch set isn't spectacular, but is good enough.

If you have a better MIDI wavetable on your legacy sound card, you can disable Monster-Sound's in the Win 95 Multimedia Costrol Panel apoint.

Playing non-enhanced games is pretty straightferward, as long as they re Win 95 games. The digital sucho sounds very clean, though there's just a liny bit more background noise than the AWE-64.

Dismost bandse a couple of 3D autho-enhanced games with the Moneter-Sound, including Missel SwCorran and Lussakris Tom, was Playing the 3D audio-enhanced version of Durmos is truly starting, You'll hear taunts from your enemast and quarter from your enemast and quarter from eithird you. The Microster-Sound really adds a whote new level of immersion to the casting secretions. Even if the casting secretions is for all the casting secretions.

you have a good sound card, check it out. It is, as another memorable Lucas character might say, "most impressive." Diamond MonsterSound \$199 (list)

Contact: Olamend Multimedia (400) 325-7010 www.diamondom.com

Creative Lahs AWF-64 Gold

For some time now, the Creative Lats like of sound cards has been something of a whipping but among the more audio-seavy sears. Compaints have been heard about noisy dipid audio, uniquely wavefalls patch sets, and the back of leading coldy issums. But they've fred back with the WAE-64 Cool.

fred back with the AAE-64 Good. Installation is typical of the AAE sorks. You plug the earl into a free SA slot, connect the cables, and shove the CO into your CD-ROM drive if you're systam has AutoPlay enabled, a menu pops up on the serien. A

few more mouse clicks, and the Windows 95 drivers are installed. DOS is arctiter protern altopatiec initially, things seem to install well. However disating the joystoic port in DOS to use a dedicated same card power proternatio—vous

must deactives it in Win 95.
Cool looks are one thing, but how does it play? Well, the most impressive thing about the AWE-64 is what you don't hear.

There's almost no hiss, no crackles, nor the beloved popping. Digital audio in both DDS and Windows sounds very good—free of noise and with a lot of presente.

The quality of the MIDI
made countils has improved
considerably as well, AMT-64's
4MB General MIDI patch set
counties maintedly better than its
producessor. In Vitarious 66, AMT-64's
4MB General MIDI patch set
counties maintedly better than its
producessor. In Vitarious 66, AMT-64's
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In vitarious of the counties of the counties of the counties.
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rather than storing sample sounds of that instrument. In an AVB test against a Roland ScD-16 Sound Convest daughtereard mounted on an AVK-52, the MIDI on the AVK-64, though much-moroved, still hasn't caucht.

JULY 1997

up with the Roland. Acoustic plane lacks body, and the strings in the Star Wars piece are a bit shrill. But really, I'm quibbing—it

all sounds really good.

The Waveguide approach eats
CPU cycles for lunch. In fact, several users report that the AWE-64 etuses to work in Cyric 6x66-based and AMD KS systems; apparently

Cestive wants "Intel heigh" As for positional 30, AWE-64 606t provides some DirectSound 3D acceleration by using its EMU-8000 synth engine, though their dome that supposedy shows the technology in action was somewhat underwhelming. Viribows 95 unm-olly sounds

simply terrific. The absence of any noise is, well, noticeable, DOS games sounds equally good, and I even get an old DOS game, Criscont Hewr's Review to run with original Sound Blaster support no less.

There's also some bundled software, including a couple of



games—Most Correct 2 and Excounter.

AWE-B4 Gold \$199 (street) Contact: Cerative Labs (468) 434-5700 www.sourdblastec.com

quiet digital audio; great compatability. DCONS: Honlatel system support preblematio; no support for MIOI daughterconfer lierited

Turtle Beach Tropez Plus ****

Tirde Beach has long been synonymous with the high-end of sound cards. Several years and, they made an abortive forzy into multimedia kits and entry level aurio. Recently, as they were returning to their roots--high quality audio-they merged with Vovetra. One of the results is Tropez Plus, a high-end, Sound Haster Pro-compatible card with

4MB of wavetable RDM. The Ticoez Plus uses Crystal Semiconductor's CS4232 for dieltal audio and Sound Blaster Pro emulation, and an ICS Wavefront wavetable synth. Win 95 installaton is easy. After siding the Tropez into an ISA slot, Windows 95 autodetects the card and prompts you for drivers. The Topez drivers are in a two-floppy set, which feel a bit odd in this CD-oriented era. Still, the installation is easy and straightforward

media.



That is, until you discover that MIDI won't play, it turns out that

the Tropez wants IRO 9, but my network card had already orabbed that IRO. The problem can be solved by de-installing the Ethernet card in the Windows 95 device manager and letting Windows re-detect it when it meterts Once that Bitte

neshiem is actual.

the Tropez Plus handies most Windows 95 audio chores with apromb. Occasionally, the Tropez Plus control panel mustenously crashes, but this doesn't seem to offect sound at all

> The MIDI patches on this card sound troific. In an A/R companson with an AWF-32 with a Boland SCD-15 Sound Carryas daughtercard, the accustic plane on the Tropaz is every bit the equal of the Rotand, which is bioti praise. The Star Wars theme, a 24voice MIDI sequence from

LucasArts, sounds very good too. though I would give the nod to

the Roland for string chorus sounds Drums are less impressive though, with kick drum and snare sounds paling compared to the Roland Digital audio sounds every bit

as good as the NWE-84. atthough them is just a bit of background noise and the occasional fight

popping sound. Windows 95 comes seem to run fine as well: Rio Aurer, Environ or THE FROMD SUN. MICHINESPOS 2, AND

Mucic: The Generals of play fine and sound error. If all this sounds too good to be true, well, mad on, Problems begin to surface when configuring the Tropaz for DDS mode Booting into DOS with the Tropez Plus is an exercise in patience. It tests the onboard circuitry and downloads code to the audio chip, and it takes its sweet time doing it. Luckly, there's a little spinning dooded that tells you your system

SCREAM

is still after The DOS installation program is good, but it warns you not to run it if you have Windows 95. Pay attention to what it says. You do not want the DOS stuff loaded when Windows 95 is numino, as It seems to cause numerous mys-

terious inclores When actually in DOS, the Trapez Plus seems to run in Sound Blaster mode guite well. I configured the priginal DOS verson of Payrin Granay, to moonnize a Sound Staster Pro and oneeral MDI wavetable card, and it sounded orest The Topez Plus has a corner

tor for an IDE CO-ROM drive, and the manual is extensive, with a very solid troubleshooting quide. which you'll probably need if you're in DOS a lot. If you remain in Wn 95 most of the time, howover the Tropez Plus is a polici card with a very solid wavetable and cood digital audio.

Turtle Beach Tropez Plus \$230 (street) Contact: (800) 233-937 www.wwwtra.com

Miromedia Surround

*** The Miromedia Surround is

an interesting little card that adds a Dolby ProLogic decoder in your PC's audio system you have a snaro ISA slet There's also a summerd sound mode using technology

tipersed from

transcs ciant

consumer elec-

Mr. This coul

Windows 95 will sometimes detect it, and sometimes not Installing the Windows driver is simple; The bantware is something else

is more of a luxury item than problem, it's the speakers that own you trouble. The JVC 3D necessity, since there are only a handful of ProLogic-enabled games out there. The Miromedia Surround is a

typical Plug-and-Play device. meaning that

sound technology is more interesting than useful, and to get the full effect, you need five speakare two main stome specifiers a center channel, and two rear satellites. This setup might be something of a stretch for most home offices, but what's worse is the confusion mixture of mini-DIN and RCA

of Wivis Communicer IV, a

Dolby ProLogic-enabled title.

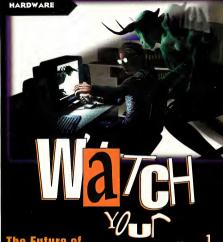
realty come to tacks on the back that some-HOOMS: An how connect to speakers. The incomplete PC card comes with some sound audio solution; samples and a demo version remins extra speakers.

Still the Miromedia Surround does work as advertised, so if you're arroious to add Dolby ProLogic to your rig. go for it.

Miramedia Surreund (800) 474-6476 www.mire.com







The Future of Audio Is Behind You



by Dave Salvator

If you think about it, we can "see" much more with our east than we can our eyes. We can determine the position, and other the defection, of sound usually without having to more our head. This process of how we determine both the position and direction about direction of sounds is called "locatization," and researches in an area cated psychocoustics have served quite at that both they haven so location.

sound designers can fool our ears into beling our beain that a sound is at a specific location by applying digital filters. These sitless approximate low sound behaves in the real world when at a given position—left, right, in front, behind, above, or below—relative to the listner.

As audio migrates to the speedier PCI bus, and as graphics traffic is shifted over to the AGP architecture, camers should look

forward to the next aural dimension: real-time, 30-positional audio. For a primer on the physics behind 30 audio, check out www.computergaming.com.

In this article we'll take a look at the different approaches to doing 3D audio, some of the hardware in the works, and game developers' take on this new technology.

Will the Real 3D Audio Please Stand up...

Admittely, the stem "50 Autio" has been the source of some confusion and much marketing hoops (bit when all is said and done, 50 autio architectures basically fall into the country. 50 Strom, Multi-speaker Array, and Persional 50 Aution All three spruuse up hardforad 2-channel stemo, but gurners will got the most benieff from the last fare, because programmes can position individual sounds, rather than just gapty a "50" effect to the gentlem. Here's how each how avoirs.

processing recividual sounds.

A Mish sessier Arry Obdy is the best known champion of these technologies, both in movie theaters and home theater contently, AG-3. These technologies eye on packing about speakers behind the listener, and these panning sounds into these rear speakers of your aD offerts. Though primarily used for movies, several game titles, including the Wha Conswoor, arrives and Mish Mish and Arrives and Arrives and Mish and Arrives and Arriv

have used ProLogic There's an interesting overlap here with DVD-RDM drives. which will soon be proliferating into PC markets. DVD movies use Dolby's AC-3 audio encoding, which is called a "5.1" setup consisting of left, right, center, left rear, right rear, and sub-woofer channels; or in other words, five speakers and a sub-wooter. The main problem with these systems is the cost of the extra speakers and a multi-channel amplifier. Also, AC-3 is primarily designed for movies, and can't really be used for game audio, because it's too computationally intense to encode in real-time. So while the 3D audio here can be convincing, it remains to be seen whether garners will want to shell out the cash for these elaborate speaker systems, though this setup could be ideal for a living-room PC. The good news here is that DVD/AC-3 will also bein drive 3D positional-audio technologies, and both will go a long way toward bridging the quality gap that has long existed between



Conventional Stereo: Sounds seem to come from between speakers Some front-to-back range.

typical PC audio and home hi-fi.

-Positional 3D Audio. This technology holds the most promise for games, since it allows counts to be reinded in early line and is bold for mapping sounds, both stationary and moving. Pentional 3D audio can also be used to virtualize a multispecific any sound in a NAS are two to specific . This technology tends to be more effective in heaptiones, since each ear gets and eliberating sharp of the emorated sounds, but improvement lake make this technology citiz connicting, even when used with soon multimed appoints.

Something Wicked This Way Comes

Something Wicked This Way Comes

Diamond's MonsterSound fully supports positional 3D audio, and though game titles that take full advantage of it are still



approaching 180°.



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choices is the MACH V's excellent business application performance." "The MACH V's Winstone \$2 score [best et is other 166 M/s machines, and even a Pentium 200] for fin piace. The Falcon bast out its 166MHz Pentium competitors on hard drive and combine performance as will."



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Surround Sound: Five speakers used to place sounds completely around listener.

relicitely for, this board delivers 30 suits that can be ready localcies. That is to this prochedgy from Austral Serricockock Capathrics has also invalved 30 portional titienty between Capathrics has also invalved 30 portional titienty between 50 states of the service of 30 starro, Cosend also has positional technology, that will soon to those on a Portional to also positive will soon to the service of the

There is one downside to Diamond's MonsterSound: It only supports Sound Blaster compatibility numbing under Win 95. PCI audio chips from VLS, Crystal, and S3 will all support Sound Blaster audio running under MS-DOS mode, thanks by and large to a new feature called DirectibWA in Intel's 430TX, and all future-generation chipsets.

Also on the hotizon are a host of CPV-based 30-audio stechnologies, may of which will base advantage of MMX, including OScard's OScard's RSX, and Southlader's enchanges A PMX as the similarier's enforcements. A result in the very large of list in to these technologies, but flocuses full-hore 30 audio processing is settly internise, if a coultief linese CPV-based technologies will match the overall quality of their hardware-acceptant occurringers. Then again, because these ethichologies require no additional hardware, they're usually hard-wind into games, and won't cost up suryling entits.

But Why Does This Matter to Gamers?

These new developments will most likely touch games before any other application, and we gamers will reap the researd, especially in first-person perspective games and simultains. Additionally, overall quality should also head north trains to the higher bandwidth astable on the PCD bus. And as ASP-based 3D-graphics chips taile on more duties in the readening pipeline, more CPU opies will be available to

expand other aspects of the game, especially audio. But before we can cross over into this brave new world of

enhanced gurring, 30 audio does face some hardes. Sound designers well herrineved at Mack, Westwood, and Beauley Byes are all planning on implementing 30 audio in one form in upcoming titles. However, they express concern about Microsoft's recently revamped DirectSoon 30 APP all being sometable incomprist. Lib DirectSOO on the graphits slid, DirectSound 30 defevers a baselining againty level were useful to EVID, but it is autible to use profile features when useful the EVID, but it is unable to use profile features deep control of the size of

As for CPÜ-based versus accelerator-based 3D audio, all three designers are impressed with Aureal Semiconductor's technology, but are also looking to use some CPU-based solutions as well. A key word all three eithe is scriebtiffly, that

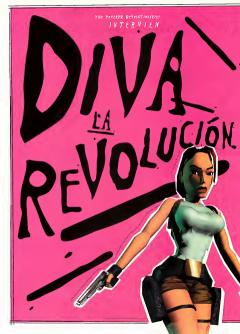
is, building game audio so as to take advantage of a 3D audio accelerator if it's there, but also provide some scaled-down 3D audio in processing has to be done on the CPU. From the CPU-based solutions, David Chairt of Reality Bytes says he's looking for a discernible difference in 3D quality with tittle or no additional CPU coefficient.

Of cosens, as is the case with 30 graphics, 30 audio rendering quality will say widely across different chips, with resome windows making trade-offs and punting certain features to isage costs down. There will be a bey or closels out them, ranging in quality from not-to-hot to very impressive. As more 30 audio and PC-brased audio parts, as well as now CPU-brased 30 audio options, togen to circulate, will have at 'om and separate the posers from the real positioners. Sully fund.

For more on the innards of 3D audio, check out Durand Begault's 3D Sound for Virtual Reality and Multimedia (AP Professional). §



completely around listener.



Tomb Raider's Fiery Lara Croft is one of the most recognized figures of the PowerVR™ Revolution. A confrontationalist, she has grown tired of the old 3D Order. With passion and anger, Lara has been relentlessly Fanning the Flames of Revolutionary justice for gamers around the world.

WELCOME TO THE MOVEMENT. APPARENTLY, DISCOVERING ANCIENT TOMBS HAS FAILED TO SATISFY THE RADICAL HUNGERS THAT GNAW AT YOUR SOUL? as Croin My first passion will always be

exploring ancient civilizations. But when I realized gamers were being kept down by inferior 3D technology I went balistic. I'm busting my arse to get gamers the 3D experience they deserve.

SO THE BLAND 3D EXPERIENCE WAS BOUND TO PRODUCE A REVOLT? L: Absolutely, But this is an armed struggle,

love. And the weapon is not the Colt .45 in my hand. It's the PowerVR 3D technology that will topple the bloody awful 3D experience.

ARE YOU SAYING EVERYTHING ABOUT CONVENTIONAL 3D TECHNOLOGIES DESERVES TO PERISH-SHOVED OFF TO THE ASH HEAP OF OBSOLESCENCE? L: Bloody right, mate. Gamers want 3D

technology that liberates their experience. Like higher resolution. Higher frame rates, Efforts that take them as close to reality as you can set.

LIBERATION SEEMS TO BE A CENTRAL THEME DRIVING THE MOVEMENT.

L: Look, if I could escape the suffocating arrogance of snooty British society gamers could owerthrow the forces trying to smash the PowerVR resistance. That's what pumps adrenaline through my body.

UM, DON'T TAKE THIS THE WRONG WAY LARA, BUT THAT'S SOME BODY.

L: Actually you should see it at 800x600 resolution. I think you'd dig my aerial flips with realistic diadows WHEW, WELL, UH...SO LARA, THESE

ARE EXCITING, TURBULENT TIMES. GAMERS AND GAME DEVELOPERS SEEM TO BE GETTING SWEPT UP IN THE PROMISE OF POWERVR. L: That's right. Our freedom fighters are

developing games right now that are PowerVR Ready Eldos, Kalisto, Shiny Sega Entertainment, FASA, Activision, Core Design, Gremlin, All feverishly churning out PowerVR Ready titles, including my next adventure. Trumb Palder 2

WOULD YOU SAY THE MOVEMENT IS OBSESSED WITH POWER? L: Of course, you twit, Frankly, we're not

stopping until we have profoundly altered 3D reality for all gamers. And we will Because we have finally seized the ultimate apparatus of real 3D nower

THE POWERVR TECHNOLOGY?

L: Yes. And with it, there will be no obstacles that can stand in the way of the mission of the PowerVR revolution: to produce the most realistic game experience imaginable. Now bugger off, I've got a battle to fight.







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5-Star Falcon

Mid-Level Mach V Has All the Goodies, and the Price Is Right

by Dave Salvator

alcon Northwest has built a well-deserved reputation for making screaming game rigs that are built for exmine. but would non any other stuff (ble work), too But all that performance canted a premium price tar that not the Mach V beyond the seach of many garners. In this latest

at around \$3,500. That may still seem prices; but the Mach V ships with all the gamers' troupings, and is ready to purty right out of the box The Mach Vs documentation is therough and complete, including Felcons "paper registry," which details I/O resource assignments of every board in the auteur. Chien the number of rejecte-

not PoP conferred there, this list can be involuble when installing a new cord. The Much Vicrostoflotion whosevally names. with all ports clearly labeled. Setup tokes about ten minutes and once you power un the Mach V iff, ready to play both in Wn 95 and DOS Fideon also includes a set of DirectX 3a drivers you can re-install in case some multelaying DirectX game. hosesypor display chocos



HOW'S THE PERFORMANCE? Here, we'll compare the Mach V to Compagi Preserio 8712, a compensilypriced high-end gaming box. Looking first at the Win 95 yearshers, the Mach V is as moral very fast, nearly excitching the 8712 on most tests, and Mach V is half again as fast in WinBouch's Bouness Combies WinMarks test The Mach V uses EIDE gouse corrosponts rather than SCSL And while the storage patern numbers are projetheless respectable. Much V falls short against the 8712 in

WnBenehic Flori Food Dok WnMark test. But in CD-ROM testing flested with Exdrive). Much V has the order in performance, and turns as lower CPU usage numbers reading from the CD-ROM Using ZD/chiest henchmark, 3D WinBerich, Moch. V torus in a very impressive score of 132 WnMarks

Looking at DOS test results, the two mathines are about dead even to OUNFA'TimeDemo tests, both at the default 320-200 and the 360e480 serven son. In CBenchiv. SVGA test, Mach V torra in a speedy 44.4 farmes per second score, whereas Compaq can't complete this test, owing to its lack of VESA20 support in femorate

In panies-based testing, both

Quisi and CLQuisi run very

renderine featores cranked all the way up. Taking MachV for a som through COMMANCHE 3 m DOS with

wiffly, and the atter still nuss

smoothly with

all the readering features biniedup RIG ENVY This Felcon Northwest Much V will run you a mere \$3,500 Much Videlia. ers here as well. In Wn 95 titles, performance in US New Economy 57 and

> INTERESTINE 76, both DirectDraw filler goes off without a littch. USNF '97's frame rate stass between 15-25 (ps with all rendering features massed out. All told. Edenn has assembled a very impressive me to this new Mach V and

with a few reiner modifications, has brought the unit's price down to be competalise both with Compan and with Micron's House MPC Falcon excels in the little extras the CH consecured the CFI posticle and the 3Dfs.

based 3D applies. Not to mention of course, that the system is turned for rearner first, and other tasks second. If you're in the market for a commende that delivery scrue nice extras, take a good look at Mach V % PAPPEAL: Action and simula-

tions namers looking for killer performance and a rig that's ready to rock and roll straight out of the box. PPROS: Great performance across the board: new ATX case simplifies

motherboard access COMS: Higher 20 graphics resolutions not sup uted by of Hercutes

boord.

2.25MB version

What You Get

200 MHz Pecture with MMX Prioritos Gerelios 17-reis montar Agus TXXVIX motherboard N12K3 of Level 2 cache SEARS OF BOO DEAM TWOOS NO FIRE COLUMN SON

STB Lightsgend \$26 parchips board NAME & DEMONSTRANCE Diamend Manster30 board (30% Viceios chase) Dwater Late Sound Roster 19 sound test Variable SWBDRS While Force daughterboard USB Sportster 33 ERitor marten QH Products speed-adjustable GarceConf. Oil Products americannellis F-16 OzenbetStrick Atto-Lansing ACS-55 speakers

The ideal joystick should give you fast response, pinpoint accuracy, and

money over buy Legames

Hackhank



The new Blackhowk gives you the look and feel

al looks, you dust have to be the Sollant of Renji for all plocks you don't have to be the Sollant of Renji for all posts, you don't plock go the Sollant of Renji for all you have the Controlled PC game you want. For as long as you want. Bocasse the Renji for all you have the Sollant of the Sollant you want. For a long as you want. Bocasse the Renji for All you have the Sollant grows a long the Sollant you want. For a long as you want. Bocasse the Sollant you want to be sollant you want to soll y

GRAVIS

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200 MHz TD-25

tel* 200 H Hz Pantium* Processor with MMI

tense 30" 100 Graphics no' 4 MS E00 RAA 10ms EICE Hard Grise

30 Wavetoble Cord alus Amo, Sorokus & Hil USB Parts, 2 Serial Parts, 1 Porallel Port 17sd69 Maritor (16.0"viewable)



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CIRCLE READER SERVICE #074

HARDWARE

by Loyd Case

hen S3 delivered the VIRCE 2D/9D accelerator chito last year. they beat many exachtes chip vendors to the punch. Users then discovered that they had a pretty fast 2D accelerator, but the 3D graphics. although pretty, were less than speedy. In fact, unaccelerated versions of a same like DESCENT 2 would actually non faster than the 'accelerated' version So, S3 went back to the drawing board and came out with the MRGE/GK and MRGE/DK.

The CX-based Nitro, although consider of using SGRAM, comes with 4MB of 28 narracernel Sdiego Marie FDO DRAM and lists for only \$199. You sho get a terrific earne bundle that includes Mischi-WURROR MERCENARIS. INTERNATE 76. SPICINGT and HIPPERILADE But, only Physiolackactually apports 3D hardwas acceleration through Direct ID.

As a Windows 2D accelerator, Netso 3D is a bit above average, but not much posting 51,5 on WinBerich 97 minning at KC4K768xd6-bit color on a Micron Milleria P166 test system. However, it does great on scaled video tests, scaling

up a 320x240 AVI file to 800x500 (24-bit color) with only a single dropped frame DOS performance was decent. Cherch DOS SVGA graphics sense was 35.5 fps - applin, good, but not great. QUAST LOT san speedily, but Nitro 3D

doesn't support VESA 2 0 in bardware: you'll need a software VBE driver Mr. Seitreh Disake Doctor What about 3D? Usine Ziff-Davis' new 3D WinBerich 97 (see related story in Read Me), the Nitso 3D posted a score of 28.2 We've non cutte a few eards through 3D WnBench by now, and the Nitro is the fastest S3-based cord we've

seen so far Image quality is pretty good. too But even with this second-expension chip, S3 still trails ATL Matros, and Rendition-based cards in 3D WinMarks If you want a fairly stable 2D accelerator with okay 3D performance and a

meat software bundle -- without paying through the nose - check out the Natro3D. But if you want really fast 3D, von should look elsewhere S.

PAPPEAL: These looking for an inespensive 3D card. NOS: Inexpensive, respectable 20 ack of VESA 2.0

REVIEW • RV-FLASH 3D

Voodoo for Less

by Loyd Case

shipped the first 3Dfv-based 3D seeclerator, the visual and performance quality made a lot of earners droof with earthment The \$299 list price, however, generated a lot of walling and enashing of teeth. Since then the price has dropped to around \$210 mail order, but it's still not a trivial combase. Firms a shot across the bow of Oschid and Dismond is Taiwanese vendor Delton, with their Flish 3D. At first blush, the Flash 3D closely resembles the other two 3Dix boards on the mar-

ben Ordrid Technologies

Price: \$149

Service At 341

Let, complete with 4MB of 40 runosecand EDO DRAM. But there's one important difference it only costs \$149. As you might expect from the low mice, this book comes with few amerifies. The documentation, a few passes of photocopied text, sixes new meaning to

"space." There's no real bundleware, just the GLOUNC executable (which requires the full version of QUARE), demos of TONE RADBROOM COMMODADAGES and a Microsoft Came Sampler

Installation was very easy, though Windows 95 detected the Plux-and-Play card and even found the correct driver on the Flish 3D drawed skette. One selengt later, and Flash3D was made for action. Thus to the product's sparse nature, there's no disolar control nanel applet to adjust display parameters.

As for performance, the card scored 972 on ZDi 3D WinBerich on a Micson Millona PK6, just a couple of points behind the 99.2 posted by Orchids Righteons 3D. We also ran GLQ11025. TimeDemonumbers and Flosh3D matched Righteress 3D feature for frame and the make coulity was smeets

Here's the bottom line: If you're looking for a very fast, 3Dfe-based 3D accelerator for a very modest price, and aren't concerned with software bundles, this card warrants a serious look. While technical support from an unknown manufacturer might be problematic, the card itself looks well-designed and solidly built. It's at least worth more than a count alone &

> APPEAL: Gamers looking for 30to performance on a K-meet budget. tOS: Inexpensive 30te perfor



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REVIEWS

CG Choice **Games This Month**







READER QUOTES Battlegreiser 3000 AD: "I own in

excess of 100 computer games and consider your publication the definitive game review source. I thought that your scathing review of Barrus grussen 3000 AD was too severe, and I chose to keep the game based upon the designer's Idalms] that an adequate manual and gatch were just around the corner. That was in October of 1996. It is now the end of April and I have been treated to a barrage of promises but very little substance. As of today the manual that was promised with the fifth (yes fifth!) major patch still remains an unfuffiled promise. The famous "C5" patch which was supposed to be the "ultimate" one contains many bugs and now includes three additional "maintenance patches" to be installed after the main gatch! I wish that I was making this up. Please

continue to warn your readers about defective products and continue to have the courage to sound the alarm. I am one gamer that is now older and wiser." Mile Lyons wa the internet

Black Herees: "I've been a computer buff ever since Atari came out with Posis. My concern today is the role models for computer games. How about making a hero or main character black sometimes? I'm not trying to start a revolution or be the leader of a noble cause. But if you ask that oues

tion in an article to the big boy comparies, maybe I can get an answer." David J. Johnson, age 44 Atro-American Gamer Tursa. OX

Good question. We've seen only one African-American lead character in a game recently, Taurus from I-'76. The upcoming Durasuu from fon Storm will reportedly litchest a controllable black character, Superfly Johnson, who looks to be a pretty mean dude (See CGW #155). We hope other game developers consider your suggestion seriously.

Review Quote of the Month

"Luke's light saber looks like a neon blue conductor's baton-Zubin Mehta as Jedi Knight," -Robert Coffey, reviewing YOOA STORIES

HOW DO WE RATE?

We only review finished products, not pre-release versions. The ratings are as follows:

Outstanding: The rare game Trail crets it all fight. The graphcs sound and emmolity come together to form a Transpendent Germino

Very Good: A high-quality name that sucpeads in many areas It may have minor problems, but is still worth your money, especially if Experience Our strongest you're interested in the ouving recommendation. subject matter or genre.

Averaged

A mixed beg It can be a came that reaches for the stars, but talts short in several ways. It can also be a game that does what fidoes well, but tacks fair or originality

A game with serious problems Usually bushy sercusty lacking in play value, or just a poorty-conceived game design-you should trink long and hard before buying it.

Wesk:

The rare come frat nets if all wrong Title is croducts so budge (Nonceived, or der why they were ever

Abysmat:

Sans Sol

LucasArts' Newest Star Wars Sim Leaves Single Players in the Dust

by Elliott Chin

ne of my favorite games of all time is TIE FIGHTER, but as good as that game was, it was missing something crucisl: multiplayer support. The game had an excellent storyfrac; welldesigned, conneeted missions; and incredible gameplay. But my friends and I would always have to take turns playing the gyene, since # didn't have multiplayer support. I washed that we could be existency togethor race to see who could take cot the Mon Calaman enviser first, or just to headto-head to determine who

was the best priot. So when I heard that LucusArts was working on a segged that would have multiplayer play. I was ecutatio. I caperly awaited what I hoped would be a gene with the same depth and story, the same sense of

being an Imperial (or Robel) prior, all with the addition of multiplayer eapabilities. When I first booted up X-WINCAS, TICEFICETER, and tumped into a few tumpe missions and multipleser doglights, I was smitten with the game, which played like

TIE FIGHTER, and looked const as well However, once the initial base ware off. I discovered that this same was nowhere near as good as its predecessor. While the multiplacer missions are definitely fun, and the idea is great, the same just doesn't have that immersive feel that vanked TIE FIGHTER into the

MR. HOLLAND'S OPUS XVT includes fact types of masierus Exercises, solo or multiplayer trunning missions melees, competitive missions between teams or melviduals; combats, engagements between Impenal and Rebell

WILL YOU PLAY WITH ME? At last you can play

multiplayer TIE Fromos, but you had better have frends, because this come isn't much fun alone



UPSIDE DOWN There's no handicappung, so ships like the A-Wing will always have an advantage over Assault Gunboats

> forces (as opposed to the melees, which are competitions without Rebel/Empire divisions); tournaments, simply three or five sucless strugg together, with the goal of being the rolet to accumulate the most points and bottles (one per sick), which are actually not the combuts, played one after the other in a loose mini-parmatien where you try to wrn in seven combats.

White exercises, melees, and combats are played as one-time missions, fromaments and hattles record your progress. That's all these is to the game. You can sump around and play any mission at any time, but that's it. Those's no progression between missions, no scenarios that open up after more wins; just a hapinasand pool of available massons. All the missions can be played single player, but if you do, be prepared to lose often. Because the missoon, are designed for multiple pilots, and because the Al can't be counted on to fly as intelligently as humans, you'll often feel overwhelmed However, if you can play with others, the missions are indeed fun and challenging.

THE DARK SIDE OF THE GAME

The buyerst problem with XVI is the poor smale of wer component There are no traly interconnected missions and there isn't a shood of continuity in the same. The only encouragement for playing more than a few solo missions is to smoss points. Multiplayer combet is the main focus for XVT, but still, the majority of people who are buying this product will no cloubt also want to play some compelling solo swites. If Lucus Arts had incorporated the original TIE FICERIES. solo missions, or added some cut-scenes and mission debriefings between each battle mission, it would have added

more white to the single-player game. Also, neme of the classic battles from the Star Was movies are mortable for play it would have been great to fly the X-Wing into the Death Star's core to blow it up, or to play the THE interceptor classing Woolge into the core If a massion editor had been included, we could regreate historical Star Ways missions We the Douth Stor out to Return of the lesk but one isn't available and LucasArts has been traditionally hostile towards user-created mission editors NACantitued on pg 157

adar Sarvice 8: 343

CD-ROM drive (4x rec-

Null modern (2 play-

(2-4 players), LAN

ever Support:

five-star category COW



Something's ppening here

Java

What it 15 has become quite clear

computing

Something's happening here

What it 15 has become quite clear

new kind of computing platform — designed to make your PC or Macintosh work better on the Internet and the World Wide Web — has arrived and it promises liberation from the you-can't-get-there-from-here snafus so typical of earlier times. The future is here and it's called laya" computing.

Are you into games or web browsing? Or maybe you put your computer to work on your personal finances or you have a yen for homegrown deskrop publishing. Perhaps you want to expand your kids' educational opportunities. Do you ever dream of being able to control and regulate the appliances in your house from your notebook computer or a cell shone? Whatever your interests, Java technology will transform your computing experience. All you need is a Java enabled web browser — and today every major web

browser on the market, including Netscape
Navigator and Microsoft Internet Explorer, are Java
computing enabled.

Today, this minute, you can power your desktop computer with Java technology for free. Just select the Java enabled browser you prefer and download it. Then watch as a whole new world begins to fill your horizons. The best is yet to come.

An evolution in web browser.

Browson have distantiatedly stock Monei and several distantiated by the second control of the second for the rest of an 10 days in more and the second for the rest of an 10 days in more and the second for the second

the interview that recently dominated desktop applications.

Speed, is there such a thing as anough bendwidth? As websites become richer with audio, video, 3D and other data types, speed is key. Jeva applets can maximize whatever bandwidth you've not.

 Security. With the Internet's universal connectivity comes the danger of malicious hackers and their ability to infect your computer. This

can be expensive, and at the very least a huga hessle, especially if you're not a corporation. Your browser should provide a secure communications channel (or "socket") and a reliable

meens of identifying users and services to determine their allowed privileges. It should also be able to easure that viruses, worms, and other malicious software programs can't infect your system. Look for a browser with SSL 3.0 and 128-bit encryption, both of which represent dramatic improvements over earlier SSL 2.0 and 40-bit security.

Cross-platform independence. You probably know folks who use a

fundamentally different kind of computer—a Macintosh to your PC, for leatance—and bottor eveb browsers come along, it was difficult sometimes even impossible, to share tiles with them. Some browsers can alleviate this problem because, as Jave anabled browsers, they have become a computing platform in their become a computing platform in their

own right, functioning at a standerds-based level above the underlying operating system. Look for browser that support secure, open applets and on scripting lenguages along with stam-specific, unsecured applets. Oday, Netscape's Nevigator and kenselfis Internet Explane, coming here both succent the Jewa clariform

open scripting lenguages along vitals system-specific, unscured application. Today, Natscape's Nevigator and Microsoft's laternat Explorer, emong others, both support the Aver platform. Some Microsoft selection and a developed Hockome Toronse, which has been designed to deliver austonicable and produced to the selection of publications accommission of laternatic publications accommission of laternatic publications accommission of laternatic amongs on the laternatic a disactivatic commerce and shopping explications. Keep new results of the selection of Microsoft systems and supplies specifications.

ava

Applet vs. application

let: a program run on a web browser (or applet viewer) has strictly limited access to your system. An applet can mally not read or write files on your system, whereas an

lication: a standalone program normally launched from ommand line that has more or less unrestricted access to

A solution apart

hough less than two years old, Java computing and the language on which it's based have attracted more interest than the C programming language managed during its entire first decade.

What sets Java computing apart? Freedom and the very real way that freedom's been evoked: Java computing is genuinely, unequivocally platformindependent. A program written in the

lava language can run wherever a Java platform is present, regardless of the underlying proprietary environment, whether it's Windows, Mac, UNIX® - it doesn't matter

Here's how it works: Because a Java applet or application compiles to machine-independent bytecodes, the same exact file can run on any operating system, as long as that operating system is also running the Java Virtual Machine. Each underlying system has its own implementation of the Java Virtual Machine, but since there's only one Java Virtual Machine specification, the lava platform acts as a standard, uniform programming interface to applets and applications on any hardware.

So lava applets and applications can run in any Java

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computing entertain you

e enterteinment glant Sony has turned to Java ing to create a new web-based em erca network called TheStation@sony.com s you might expect, this special new website can be found http://www.station.sony.com. ghlights of The Station include:

onPass. a uni que communications featura of The n combining the best of technology end design. The nPass is The Station's webwide walkis-talkis wing for two-way communication through realting nessaging from passholders and announce

 Personalized areas that include personal descriptions, favorite links, buddy lists of other users ective on the site as les account and billing information:

Stetion, en area where users can access multiple unication feetures such as instant messeges, et steards, interactive threaded discussion groups and real-

 Station Search, an aree where users can search for le, services, and products in The Stati An extensive shopping network that allows multiple companies and brands to offer online customers an ty to buy goods ranging from books and CDs to romotional marchandising for entertainment offering

BEHIND THE SCENES: A LEADING EDGE

For development of its exciting new site, Sony turn leading provider of consumer-focused online solut ogy Group (ATG), which supplied Sony wi advertising, user-profiling and communica ties from its D lications, and devaloped extensive

administration technology for the web-basad online

network "ATG has built for The Station rely wei rice unlike any other on the web today," said Jest Singh, ATG's

utive officer. grated diffarant Sony e shows, soop operas and kids, as nt into a single, large-scale, a. Dur approach was to design an well as third-party content into a single, large-scale consumer-driven sarvice. Dur approach was to des online network that focuses on delivering e well-le onalized user exparience."

oplications are created using the Dynamo Developer lava computing application development framawork.

enabled web browser, like Netscape Navigator, Microsoft's Internet Explorer or Sun Microsystem's new Hotjava Browser. This makes lava computing perfect for today's quicklyblossoming Internet, where one program needs to be capable of running on any computer in the world.

Java computing is universal

our web browser has likely already led you to your first Java experience, since the Java Virtual Machine now resides on all major browsers.

But Java computing hasn't stopped there. Remember: anywhere there's a Java Virtual Machine, Java applets and applications can be dynamically downloaded and run. That's why Sun Microsystems has made a Java development kit available for Windowses and Windows-NT, MacOS 7.5 on PowerMacs and 68030 (25 MHz and faster) and 68040 Macs. IRM, meanwhile, has ported the Java Virtual Machine to Windows 3.1, OS/2, and AIX. And the Open Systems Foundation has ported Java to assorted UNIX platforms. while other ports are underway for Nextstep, the Amiga and possibly other platforms.

AVA COMPUTING IN SILICON

But the Java computing arsenal goes way beyond that. Soon microprocessor versions of the Java platform will be incorporated into cellular phones, pagers, palmtops, even thermostats. And for good reason. By the end of the decade, the average home will contain between so and 100 microcontrollers, Java technology makes possible easy communication between all these devices. In fact,

Java technology can help link the millions of cellular phones, set top boxes, personal digital assistants and other Internet appliances operating in a networked environment and highly optimized for small applications running at top speed, Eventually, you'll be able to interact with these devices from your PC, Mac or laptop - and it'll all be as simple as using your web browser.

So promising is this new world of Java computing

enabled consumer electronics that Sun Microsystems and others are casting the Java platform into silicon so you can brieffly from Java processors, 'significant power, performance and cost advantages, And recent new interfaces will make it easier for coftware designers to build Java computing into games. Tvs. smartcards, coplers, fax machines and dashboards, save omegating will be everywhere, the everywhere.



he same Java applications run on all platforms and networks — a seamless environment reaching from server to client to cellular phone and beyond. Thanks to its virtual machine orientation, applications

Fair weather ahead with Java computing

ow many times have you left the house without an umbrolla, because the weatherman predicted 80-degree temperatures and sunshine, only to be drenched on the way home?

Alas, TV and newspaper weather forecasts are wrong about as often as they're right. We depend on them anyway because there's been no atternative. Until now.

atternative Until now. A group of tarrighted weather researchers at the University of Michigan have pritted Java platform to work to you can intenctively view the national weather picture on your desktip computer screen whenever you want. Whether picture on your want. Whether — you less get when it between — you less get when it her to be a proposed on the picture of the picture

NOTHING BUT BLUE-SKIES
The brainchild of three University of
Michigan scientists who call themselves The Weather Underground,
Blue-Skies is a Java computing application featuring the Interactive Image

Format (IIF) Viewer, an applet that works with any Java enabled web browser. Blue-Skies site visitors can download the Interactive Image Format Viewer and view a wealth of graphical weather data drawn from a network of nearly 300 Internet sites. By simply moving your mouse across an on-screen weather map.



you can see current weather conditions across the nation, updated instantly.

The viewer applet works by interpreting IIF, which means you can customize IIF web pages on the fly to meet your own particular interests and needs — all without having to recompile the original Java code.

A WORLD OF WEATHER
The Weather Underground offers
what is probably the most comprehensive collection of online weather
services available anywhere.
Using Blue-Skies, you can access

updates and general travel conditions. What's more, through its innovative WeatherCams, the WeatherNet delivers live, daily pictures of weather conditions in over two dazen cities

and resorts in North America.
The Weather Underground plans to
expand its services even more in the
near future. In addition to its free
educational site, made possible by
the University of Michigan and the
National Science Foundation, a
commercial site that promises to be
an even richer source of weather
imagery and weather-related infor-

magery and weather-related information will be launched soon.

IAVA ENABLES NEW USES

The Jean language's polset, distributed architecture is an importance of these new capabilities. Because of these new capabilities. Because the flive-wire can be downloaded quickly, easily and tree of charge to multiple platforms. The Westher Underground believes it'll be expecifally useful as a science teaching too! in schools. In fact, an extensive meteorology curriculum for grades K-12 has already been produced to spaler's

acceptance for this purpose.
Soon The Weather Underground will be licensing its Blue-Skies engine and extending the technology into other fields, from seismic activity monitoring and national park information to cam-

pus directories and bus schedules.
"In addition to realtime science data providers, like us, you could use the IIF viewer for any John Doe's really cool home page," says one of IIF's devialment.

the great

ust months after pioneering internet push technology based on the Java platform, Marimba, Inc.'s Castanet is emerging as the technology-ofchoice for software and content delivery over the literate!

Channels built with Marimba's Castanet are going up with increasing frequency And the subjects of these channels span the interests of the world — from interactive comics, games and puzzles, to displayed databases, and absolutely current news and sports information, Marimba makes the Internet come alive.

Now over 50 leading internet technology vendere, capparte customer, publisher, media companier, committing firms, and international sub-companier, committing firms, and international sub-companier, committing firms, and international sub-companier, and cole design firms of the content and cole design firms of the collective support demonstrates for example, enabling (DMInt to provide a new service committee first sub-companier, enabling (DMInt to provide a new service and collections) and the companier first sub-companier for example, enabling (DMInt to provide a new service on their desktops and get news stories relevant to on their desktops and get news stories relevant to

"At CNNfn, our strategy is to deliver breaking busines news and investment information in all ways that are effective and helpful to our audience," said Lou Dobbs,

1.0

Check out the Gamelan channel listing. It provides a complete listing of the Castanet channels that are available today.



chief executive of CNNIn. "Marimba's Castanet technology will allow us to develop an excellent and unprecedented new channel for PC users."

A NEW KIND OF CHANNEL

Unlike products that merely broadcast information to desktops, Castanet's two-way communications capabilities enable these companies to efficiently deliver media-rich entertainment and information services customized to the unique needs of individual users — without concern for bandwidth

The Castanel Internet application management system intelligently deploys and automatically maintains rich media content and software to millions of users across the Internet. The system is comprised of the Castanet Timer client and the Castanet Timer client and the Castanet Timer consistency of the Castanet Timer canables end-users to subscribe to application channels' deployed by various Transmitters across the

Internat:
Examples of types of chamnels enabled by Castanet include multimode entertainment, interactive games and productivity application— all updated on the whole and productivity application— all updated on the whole. Since its debut, hundreds of thousands of end-waren have developeded Castanet Times from Marintania's whole at hing/www.warminb.com. Castanett is compatible with all cuts development tools and was on Windress with I and addition to sending simple content like advertising and stock question your desktyn. Castanett is all was not without the addition to sending simple content like advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the advertising and stock questes to your desktyn. Castanett in the particular and the partic

and stock quotes to your usestup; customers internal push' capabilities are being incorporated into the products and services of leading technology vandors, including Hewlett-Packard, IBM, Hells and Sun. To enable automatic creation of Castanet 'channels,' tool companies Botand, future Tense, Micromodia, Net-II Novil, Random Noise and Symantice are embedding Marinho's publishing technology into their own products so content authors can automatically create Castanet Channel. IMPROVING THE VIEW

Castanat is also delivering breakthrough capability to key publishers and media companies. Just like corporations running enterpriservide information systems, media companies and publishers require a robust deplyement and maintenance platform on which to build their new generation of media-rich information services and enterlainment for the laternet.

Its Hexible architecture and ability to scale to millions of users an the primary reasons such companies of outsern as the primary reasons such companies as Columbia PitStar Interactive, EntertainNet, HoWkred MapQuast, Ne Noi, Quote com, Public Broadcasting Service (PBS), Season Street, My Yahool and ZDNet have adopted Castanet, Additionally, Marinday's relationship with Macromedia, creator of Shockwave, will consure adhanced channel viewing experiences—

something key to today's computer users.
"Sony Pictures Entertainment is excited to be using
the Castanet technology to bring our entertainment
content directly to viewers desktops," said Richard

-

Subsribe to the Children's Television Workshop Sesame Street KidSite Channel! Join your favorite Sesame Street friends, grab a paintbrush and have fun with the KidSite's interactive coloring book.

company's products and services with customers and business partners," said David Donahue, president of Bantana Technologies. "Now we're able to distribute functions, such as enrollment and financial planning information, directly to the field sales force and to entitless."

Glasser, senior vice president of Columbia
TriStar Interactive. "Our first channel — Shock It

Glosser, senior vice president of Columbia TriStar Interactive. "Our first channel — Shock It To Me, Baby — which features Shockwave games from our Columbia TriStar film and TV websites, delivers such award-winning activity as Punch the Clown."

BREAKING DOWN THE BARRIERS

The corporate world has leapt onto the Java computing bandwagon in a big way that will become increasingly visible on your webscreen as companies pioneer new

ways to reach the rest of us. Take Bentana Technologies, Inc. This Aetna-Iunded company selected Castamet for its ability to break down the barriers of interprisewith ecommunication between the ecoporation and its agents, clients and beneficiaries. Using Castamet, Bentana Technologies is building and deploying rich content for collaborative and secure electronic commerce channels that allow the implementation of a virtual netternities and the broadening of mentation of a virtual netternities and the broadening of the control of the c

relationships with customers and distributors.
"Castanet represents breakthrough technology for our electronic commerce platform, which integrates a CREATING NEW
TECHNOLOGIES

By integrating Castanet with

leading-edge technologies from companies such as Hewlett-Packard, IBM, Intel, Lotus, Macromedia and Sun, entirely new Internet applications are emerging.

Intel, for instance, has partnered with Marimba,

intel, for instance, has partnered with Marimba, Macromedia and PBS to the develop an "infinite CD" for PBS. The technology leverages the storage capacity of CDs along with Eastner's ability to continually update content in the background to deliver quality update content in the background to deliver quality entertainment, information and commerce to users' desktops via PBS Dnline. "Marimba's Castanet is the wave of the future."

said Dan Farber, vice president and editor-in-chief of 2DNet. "It is the kind of technology that enriches the user experience, overcoming bandwidth limitations and allowing for more dynamic, interactive content."

Want to know more about Marimba? Check it out at

http://www.marimba.com.



cent continued from page Is

are easy to transport across the Internet. The Isava platformerourages production of reliable, simple code and its object and component orientation promotes re-use and library-building. Already, hundreds of thousand of programmers have learned the Jeva language and have begue charming out appliers and Java based websites that are transforming the Internet to Jewa computing.

JAVA COMPUTING ACTION

The fruits of their labors are blossoming all over the internet and already take nearly as many shapes as you can imagine, from games to personal banking to getting an upto-date weather report.

Stop by Gamelan (on the web at http://www.gamelan.com/, a directory of resources relating to the Java programming language and you'll get a sense of the scope and reach of Java computing. Organized hierarchically, the directory is fully searchable and includes such diverse Java related psyclemes as applets, standalone Java applications and news.

The laws platiform is powerting data rooms, too. After that, soon owthersters we the Entathwich Chail client on a hoted basis to build their online communities, making it the internet" most violent-vased jave, chair system. Since Entathwich Chai is written in the lova language, it man sensitively within the centre of a with bugs, on any platform, in any lave, capable browner, with just a few time of influence a nortical entathwich Chair in early laws, and the control of a with bugs, and platform of any laws, capable browner, with just a few time of influence and in the control of a with platform of the most filentific chair significant available, with most platform of the most filentific chair significant available, with most control of a control of

Java computing is easing the burdens of staying weatherproof, too. You can check the weather with the newly Java enabled. University of Michigan Weather Underground's Blue-Skies (see sidebar on pg.55) application, which gets you web browser access to current weather maps. Or you can interactively zoom and browse your way to

over three million locations worldwide on an interactive atlas, obtain city-to-city and door-to-door driving directions, identify places of intenst, and create and save personalized maps at the Mapbaset website the site offers the most detailed, high-quality cartographic information available online with attractive, readable maps that can be magnified from national to street level. Mapbusst gets over their million hits and serves up 800,000-700,000 page views every day, placing it among the top websites world-wide in daily traffic. See MapDusst's website at http://www.mappusst.com.

lava technology even delivers Kodak moments via a powerful tool that provides complete online vensor, manipulation and storage capabilities for scanned 3smm photo images. Kodak's new Moto CD on the Web Gee sidebar on pg. 500 and thirty/news-kodak's condigitalimagings/aborth/sect/ben/50, now delivers cost-effective, convenent and high-quality imaging to web browsers everywhere a pout can access, view and manipulate high-resolution images stored anywhere on the work.

Java computing can make you a smarter investor, too. WallStreetWeb's subscription service can be accessed at https://www.wallstreetweb.com with a secure web browser for instant stock quotes, built-in trading, power searches,

personalized securities lists, charting capabilities and portfolio management. And MarketPage offers wireless stock market alerts and updates, delivered from its website directly to your alphanumeric pager.

PUSH TECHNOLOGIES

Until now, the internet's explosive growth has been fueled mostly by the World Wide Web and by e-mall. Now another innovation opens a new horizon: the internet as a platform for interactive applications and content that

lands on your desktop with little or no effort on your part. Internet and Java computing standards mean these apps will be much simpler and more flexible than ever before. And that's not all: these interactive applications will be easy to

The MapQuest Channel offers sophisticated worldwide map coverage, dynamic map and information navigation, interactive screen and location icons and millions of business locations and places of interest. Bon Voyage!

99

deploy, simple for everyone to update and able to deliver engaging, high-impact experiences directly to subscribers. What's more, providers can gather detailed feedback about subscriber preferences so content is always relevant and up-to-date.

This new revolution has already begun, Java computing based Castanet from Marimba, Inc., for Instance, delivers software and content over the Internet (see sidebar on pg. 56) via channels that range from games and sports to news and databases—and Castanet's background communications capabilities means no worry about

bandwidth constraints.

BEYOND THE WEB

Java computing opportunities reach beyond the Web, too. Corel Office for Java, a suite of office productivity applications written in the

productivity applications written in the lava language, can run on any environment that implements the lava Virtual Machine or Java05" platform. Because the client side of Corel Office for lava has won 100% Pure Java* certification, all documents are readable and editable accoss all platforms.

Corel is also busy applying the Java platform to the internet publishing process. With a new web publishing engine called Barista now integrated into Corel's WordPerfect ?

Java driven online imaging

era you moved your photo opps onto your computer yet? There's never been a battar tima, thanks to Jave

yat? There's never been a better time, thenks to Jaw computing computing. Kodsk's Photo CD system is a powerful tool that provides complete online viewing, managustation and storage acpabilities for scenned 35mm photo images, introduced in 1992 as a linchpin of Eastman Kodok's Digital Science product fauily the Photo CD system delivers cost-affactiva, covarainent, high-

the Patios LS system Bellivist Soot-Inscrire, Concennent, high quality imaging the deskings envaryed the Sulf in the most Support for Photo CD images has been built inter most leading operating system, including Sobrist from Sulf Adobe Photositips and discrims of Software applications, such as Adobe Photositips and Plagnamiker, Onesphilips and many others. No vounter the Patios CD image in this most — earlied lange Proc.— has quickly become at da factor competer. industry standard.

Whather you're nat surfing, doing in-depth research, reating Web pages or just contemplating splicing Aunt Jarriat's head onto Uncla George's torso, you'll lika what oto CD can do — and you'll like the price even more: Photo CD is free.

IMAGING IS SERIOUS FUN ...

Diviously, Photo CD on the Web can be a lot of fun for web usiasts. But there is another side to Photo CD on the Web. too: the technology itsalf is a huge leap forward in online imaging quality, offering a 24-bit graphics format and an advanced color management system. With that kind of capa-bility, Photo CD on the Web promises to be exceptionally useful for students, ecademiciens and other serious researchers, giving tham immediate access to important graphical information across the internet.



Now Kodak has unvailed a new Java application, called New room na unrease a new zero approximation, com-Plato CD on the Web, to make its imaging technology easily and universally accessible to users anywhere in the world. With Photo CD on your desktop browser, you can access, view and mainfulet high-resolution images started anywher on the web. Becouse of Java's platform-indopandance, access is niways seemless; it doesn't matter what kind of sys the user has or where the image is stored. So every Jeva anabled wab browser is also automatically Photo CD-aware providing users with unparalleled imaging capabilities.

DYNAMIC INTERACTION WITH ONLINE IMAG Do you give away snapshots only to wish later that you still

DO you give away sungstants only to vistal taker that you still had than? How you can share all your photos and kanp them, too. And that's just for starters. Anyone with a Java anoblad Web browser has immediate and transperent access to a vast array of high-resolution digital images — Irrom detailed pictures of the surface of Mars to the Smithsonian's

pletures of the surface of Mars to an summission as collaction of Native American artifacts. Using your web browser of choice, you can dynamically interact with online images like navar balore. Photo CO on the Wab allows you to view, zoom, anlarga, crop and rotate any romata image in real time — as long as that image was previously captured and stored in Kodak's Image Pac format. The Image Pac formet stores a photo image in five different invals of resolution, and you can view and manipulate every one of these levels on the web without losing image quality - which means you can create far more interest and dynamic Web pages than were ever possible before.

Already, such institutions as the Smithsonian's National Air and Space Museum, the University of Pittsburgh, Dregon Stat opeca museum, the University of Pittsburg, Dregan State University and the American Museum of Natural History era all currently demonstrating Photo CD on the Web technology in a production anvironment.

... AND IAVA COMPUTING MAKES IT HAPPEN

Java computing is ideally suited for the robust, distributed operation this kind of demending opplication requires. As a er of Photo CD on the Web, you can download the com you salect — say, images or portions of images — from a remote Internat sarvar at a museum, university or elsawhara and then execute the Java applet locally. Rather than downleading an amire five-megabyte Photo CD digital image, the program brings across only the five kilobytes of high resolution image data required for full operation. Result performance that's extremely fast, responsive, and efficient

A BRIGHT FUTURE

No motter what kind of system you have on your dask, olds are that Photo CD on the Web will be running there soon. And when Kodak issuas a new varsion of this Java powarad marvel, all you have to do is visit Kodek's web page and download your automatic update. It's bard to imagine soft-ware distribution patting any essier. The power and elegance of Java computing plus (docks's tachnology-leading online Imaging brightens the future for all of as. For mora information about Photo CD on the Web, visit http://www.kodek.com/digitalimaging/aboutPhotoCD.html.

and Ventura 7, users quickly can quickly transform existing documents and images into web-ready files — without any programming required. Every WordPerfect 7 and Ventura 7 user is now automatically a web publisher, with complete control over the look and feel of their material.

"Java's unprecedented cross-platform support and distributed architecture make all of this possible," says Corol Technology Evangelist Chris Biber. "Basically, Java has changed all the rules."

With a prototype application weighing in at only 62 kilobytes, Corel Office for Java delivers important advantages:

• Support for open standards.

- Support for open standards.
 A feature set that can be customized and expanded.
- ioo% written in the Java language, which allows crossplatform deployment.
 A file format that's consistent across platforms.
- · A consistent user interface and standard terminology
- throughout all applications.

 You can find out more about Corel Office for Java at http://officeforjava.corel.com.

Many other vendors are developing Java applies and applications that businesses will use to reach their customers — that's us, folks — via the Internet and dedicated corporate networks.

One smaller financial organization that has gained competitively thanks to Java computing is the Heritage Bank & Trust Co. of Lafayette, Indiana.

Over the past year, the bank's CEO accumulated several Java applets at little or no cost, downloading them from various applet

sites on the web such as Gamelan. And he wrote applets of his own. New Hentage Bank offers its customers access to a lawa based mortgage-payment calculator. An income qualification calculator uses a potential mortgage borrower's income and expense data to figure out the maximum prudent monthly mortage and maximum long an amount.

Java computing is secure

has swept across the internet, offering solutions for key problems nagging client/server computing

and corporate use of the World Wide Web.

But it's precisely Java computing's unique ability to distribute executable code over the Internet that has raised concern about its effect on network security. After all, a lot of people have begun shopping on the Web.

Happily, much of the security and reliability needed to protect organizations using lava applets and applications containing executable code has been built right into the java platform.

SAFET

in theory, a lava applet can come from anywhere and be capable of attacking unprotected matchines in ways that might not be stopped by traditional methods. That's why he lava platform protects its users by placing strict limits on applets to prevent potentially millious applets from stealing information, spreading viruses or acting as virus-carrying Tropian horse. They cannot read from or write to your local disk, Standalone windows created by applets are clearly labelled as king owned by untrasted software.

SECURITY

allows a user to import and run applets from the web without undue risk to the user's machine. The Java applet's actions are restricted to its "sandbox," an area of the web browser or the

The Java platform's security

Java Virtual Machine. The applet may do anything it wants within its sandbox, but cannot read or alter any data outside of its sandbox, allowing users to run untrusted code without compromising their trusted computing environments. If a user does accidentally import a hostile applet, the local machine will not be damaged.

A SAFE SHOPPING ENVIRONMENT

All that Java computing security means that Java powered websites are a safe place to shop. More and more are appearing every day.

Worldwide entertainment giant Sony, for one, has turned to Java computing to create a new web-based entertainment and commerce network called TheStation@sonw.com—(see

Bringing Wall Street to the webtop with Java computing

online investment service that apdatas to your desktop, so you could execute reoffine electronic trades graphically chart your portfolio's progress and maybe even page you with breaking news when you stap when your desk?

ewey from your desk?

Sounds tike an investor's dream. In fact, it's reet, thanks to the World Wide Mah. In programs and ad Bullat Real. and the Jave computing platform. Web immediacy and Java computing: interactivity have been melded into meractivity frave ocen methad into voretha, Chengeeble — and user-solvetable — information like store selectable — information like stock prices. As BulletProof's Scott Milane:

the webton, level is what we have

MerketPage offers wireless stock
merket alerts and updates, delivered

ized socurities lists, chorting capal ties and portfolio manegement.

Windows-based desi top applications. This

Java computing implementation.

The paging south GUI in the Java based MarkelPege applet leaves the ITTML Interface in the dust," says Milener. Thenks to the Intuitive Java GUI, you'll need only a minute or two to pick your personal preferences, complete the poper satus and performance. complete the pager setup and perfo a simple pager compatibility test.

Scott Milener receils learning ebo became very excited and went to tal to our engineers — still very excited — and said. I bet we can build this, this and this with the new Jeva lenguage. They looked at me and said. Walk we've elregty down.

loaded it and we're working on a new application — what do you think?" "I was amazed. We each bearest o "I was amazad. We each learned of Javas eparetely at around this same time, and we all immediately saw the soomous (mplications, We had that Whoelshir feeling!!" Interasted in more about MarketPegg or WellStreatWeb? Check them out at the Change of WellStreatWeb?

sidebar on pg. Sa). As you might expect, this special new website can be found at http://www.station.sonv.com and contains that rooms, realtime two-way messaging shopping and much more.

Another Java powered website, Garden Escape (at http://www.gardenescape.com) offers an interactive planner for gardening enthusiasts, along with an online magazine, resource pages and links, chat rooms, a gift registry and, of course, shopping,

There are many more lava computing stories like these, You'll hear more and more of them in the coming months, as lava computing spreads across browsers and websites and even boardrooms

A new kind of computing platform - designed for use on the internet and the web - has arrived. The revolution has begun and freedom is yours for the taking. For more information about Java computing, please visit

http://iava.sun.com.or.call i=800=IAVASOFT.



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The Multiplayer Side of the Force

or a game geared so strongly towards multiplayer action, X-White Vs. TIE FIEHTER's networking is a surprisingly mixed ban. Once you get up and naming it performs well, but the restrictions on setup and number of players will annoy gamers expenenced

with more fixeble network games. XvT's internet play is handled through the Internet. Garring Zone (www.mne.com) Web site. The Zone provides that rooms where you can easily find opponents with low latency numbers and then start a game with only a few clicks. No matter what time of day I logged on to the Zone, I was able to find enough players to launch a mission almost immediately. As iong as all the players showed up green on the latency mator, games were smooth, with almost no perceptble fog or worping, even when I hosted on a less-thanoptimal 26,400-bps connection. You'll need

Microsoff's Internet Explorer to access the Zone-in byoical Microsoft feshion. Netscape isn't supported. Because of the sheer amount of information being sent over the Net-locations of not only players and missive, but also dozens of computer-committed \$205-the Zone Emits you to four human players in order to keep performance up. By using Keli 1.1o or later or by manually connecting to a host claver's IP address and bycassing the Zone, you can play with more than four players. You'll probably only be able to play meles without computer-controlled ships. due to the amount of data being transmitted. Network connections easily support eight players:

modern play, as you'd expect, is perfectly smooth. While there are few technical problems with the game's connectivity, there are certainly plenty of annowing design decisions. Perhaps the biggest imitation is the inability to ion a game already in progress, even if there are player openings. If a player gets dropped from a game, he will be unable to recon unless all players leave the game and retaunch it. If dynamic entry were allowed, you could rejoin a lost connection, or other players could pop in to fill gaps in the team. Also, if you have trouble connecting to a game, the program sits for over two minutes before it times out. If you haven't connected in a minute or so, you're probably not going to, and an option to escape

from the connection screen should be available. One nice feature is the atility to watch the battle from a tactical display on the observation deck-and even 200m in on specific ships and give them orders-once all your own ships have been destroyed. At least you'll have something to do if you die early on .- Denny Arkin

REVIEW • X-WING VS TIE FIGHTER

PPContinued from pg 144 IS THE FORCE WITH XVT? The game's engine looks and

plays the TIE FIGHTER, with the addition of testuremapped graphics. One problem with the engine is scaling: Capital ships look too small, so you can easily mistudge the distance to a Star Destroyer and then get caught by its suns before you scalese you're ton close. Cranbically the same looks most with

excellent lighting effects when the standarders get hit. Coclarit eraphics, on the other hand, are rather out of place with a drawn appearance that contests north with the detailed texture maps on the ships.

Alone with overall good central and graphics, XVT does have some great matric, and can be customized. You can return all the community and create the perfect keyboard/postek layout for your needs. The list of orders to give your wingmen, as well as the targetime outions for hitting ship components; are good holdowers from provious Star Warrisms.

If you gut take the multiplayer action, from doglights to co-op missions, X-Wing vs TIE FIGHTPR is a four-star game. But its poor soloplay doesn't rate much higher than two stars. What you end up with it a game with stude-player roissions that serve best as practice



DEATH AT TWELVE O'CLOCK In one of the better multipleater missions, you and a small group of X-Winos have to take out a Star Destroyer

meltiplayer missions The sad part is, I was really looking forward to this game After the high of playing TIE FIGHTER. I wanted mether Star. Wars experience that would be just as immersive and fun And white my wish for multiplyers Stay Wars action was fulfilled, my hope for an

controlent single-player experience wasn't &

for the real fun - the

PAPPEAL: Gamers who abus wanted to play TIE Figures mul er. Selo garrers need not spely. Good TIE Framm style space combat; cood craphics and music; some interesting missions. S: No real sele play; bad







Where your imagination goes after it leaves your **head**.



Take a mind-altering voyage on an epic, 3-D actionadventure with over 60 hours of gameplay.

Pilot flying dinasours, dune buggies and space ships to explore over 200 stunning environments on three planets.



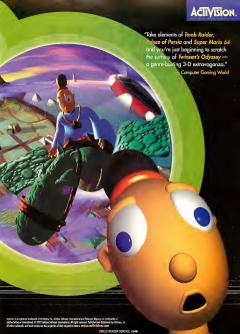
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Hornet Gets & Some Buzz



Another Mac Flight Sim Launches a Successful Attack on the Windows 95 Market

by Robin G. Kim

othing compares to the adrenatine rush of a catapolt hunch, or the aventypalmed terror of guiding a redsouther delaries through total darkness toward a controlled crash on a timy patch of moving scal estate Craphic Simulations Compution obviously

understood this appeal back when they created F/A-18 HORNEY for the Moointook Version 30 lets PC owners in on the action for the first terre, while adverseion the Macropoli his through the introduction of rolling terrain, wingsoon commands, and other minor enhancements Like most Mac flight stres. HORNET uses flat-shaded polynon emplies with no texture masons. The result may not recear photogradiatic, but the 3D objects

still look erest, and almost any Pentium. system can achieve fast frame rates at resolutions from 640x490 to 1024x768. The sim tries heed to manutain this speed, actually slowing the passage of game time (sometimes down to 1/3 normall when the scene gets busy. In proctice, this is borely noticeable and metable less so.

than if it just allowed frame rate to plummet.

PREFLIGHT Houserfeatures 40 missions, six training flatis, six multiplayer scenarios, and 28 combat nossions in the Person Cult They can be flown individually in any order,

IN THE GROOVE Carrier landings can be an interesting challenge, but the sim is too tolerant of errors-slamming into the middle of the deck will get you down just as well as a perfect approach to the three-wire trap.

record and undertake a tour of data Atour crosists of seven sorties of enchaily increasing difficulty, each one offering four different missions from which to choose. The missions are basically canned Othe results of one have no Insering effect on those that follow) but the randomized placement of enemy forces keeps things interesting over multiple replays A wide excush range of difficulty settings is pro-

vided to suit players of any skill level The F/A-18 is a true multi-role strendt, and the diversity of massions in the sun accurately reflects this Assignments

SOME FISSION The devestation B-57 tactical nuclear bomb can only be carried on a few select missions against the toughest, most important targets

sames from air intercents to escort daty to strikes against targets on land and see. Unfortunately, the sim lacks any sort of mission planning. You can't even review your waypoints before taking off, much less chance them. Also, most flights stret you out very close to your objective. Though this is clearly unrealistic, the only direct consequences are less time spent in borne transits and a reduced need to conserve feel. As a side benefit, the short flight times also make reviewing films, created using the game's excellent mission recorder more entertaining One or two wingmen accompany

you on most flights, but they can only ked air to air support - ground pounding is strictly your department. The AI is



See this month's OG Tips section for information on how to fly any aircraft

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fairly good when it hasn't been intentionally durabed down for play balance, as is done on some missions. Your wingmen do have an armoying tendency to crash into the around when ordered into formotion at low attitudes, but this design. fault can be avaided by simply not issume them those narticular commands Adenoyledgements and status reports are conveyed by diritized speech with a staticley background that sounds much more realistic than the ultra-clean studio recordings heard in some other situs Radio communications from ground control, the control tower, and the carrier's landing simal officer are also well done. substantially enhancing the feel of the sim

THE REAL MCCOY HOUNEY really begans to shane once you step into the cockptt. Avionies modelling is its forte, and even a carick plance at the instrument panel - a dead ringer for the one in the real place - should tell you that this is one senous simulation. It's not just eye cardy, either With ROM for an interactive

modes, 5 autopilot modes, and 140 keyeven a provide - albeit a highly motivated board communely, the enclosit is a nitware for facts of systems realism Wisanous modeline is also top notely.

Mastering this complexity would be erser if the documentation didn't read more like a reference manual than a tutonul (it also neelects to list GSCs tech support number, which is (972) 386-7575). Nevertheless, when combined with the extensive state of multimedia

one - up the steep leanuage curve.

As inneressive as the aviories modeline is. It does contain gumerous small enors. Most of these problems have smple work-arounds, however, so on the whole they are not overly detrimental to gamentay. Examples include ground

mapping tasks modes (but thankfully MULTIPLAYER MAYHEM

lessons enough infor-HORNET uses DirectPlay on the PC to matter is presentprovide easy setup and impressively smooth network ed to proh and modern play (the Magintosh version only supports Apple Talk networks). Up to four people can participate at once, dividing up into two teams of one or two players each. Computercontrolled aircraft aren't available, so you can't fly campaign missions with your friends, but the sax multiplayer-only missions that are included offer a good vanety of air-to-air and air-to-ground themes. The chat feature

allows you to type messages to everyone or to just your wingman Despite the low player heat and tack of campaign support, the multiplayer missions are entertaining enough to boost the sim's long-term play value greatly-is long as you can find people to fly against. Performance over the Internet is relatively good, so Kalt and Kalsa users should have little trouble finding opponents and teammates online. Unfortunately the PC version can't currently connect to the Macintosh version, so PC owners won't be able to join in on the ducking ladder





INFORMATION OVERLOAD Players used to fiving a sim before reading the manual may find Horser's realistic array of cockpit avionics a bit bewildering

and fuel consumption on afterberner is not air modes) that can see through hills, and electro-optical sensors that are unable to detect ground vehicles except at indicalcuely short ranges.

SURFACE REALISM

At first elance, HORNEY aspears to have an outstanding flight model. It has a pleasuntly fluid, controllable feel that seems convincing over a board range of airspeeds Anale of attack is acomortately fied to lift, and energy bleeds off in a resistic foshion under heavy G loads. Carrier

landings are expectable well done, through no landing endes are eiven, and the sina is rather forceing of matakes

Regrettably, dissing a little deeper unovers many significant enses. Altitude has no effect on turn performance, plane handling is nearly unaffected by heavy ordnance loads around acceleration and deceleration is so overdone that it is possible to land on a canter without using the hook and to take off without using the catapult, abourds effective rudden moke 9G flat turns possible at supersome speeds.

about these times too high With these seemingly damaging flaws, it would be easy to write the sim off as a glorified areade game. But unless getting the numbers right is more important to you than gamepley, this may not be entirely institled. It turns out that if you interfice. ally fly the plane in a realistic marmer - as the designers obviously intended - most of the flight model's gyestest folkings are not readily apparent. Make no mistake:

This simil flight and avionics insecturicies

definitely do distort mality so those who

demand absolute fidelity will be disoppointed by HORNET's shortcomings.

But if you are the land of person who is willing to cleave to the spirit of the simrather than dwell on its deficiencies, you may find that all types of missions play out in a fun, challenging, and malistic mough martner For mony arm plasters, that is nechops what really matters. S.

DAPPEAL: Worshippers at the altar of high frame rates; sim veterans who erity complex systems models and can overlook failings in other areas : Outstanding aviences medal-

ing; fluid flight model feel; goed SVGA graphics performance; excellent use of digitized speech; wide variety of mission types; smooth rurning multiplayer modes

suicidal.

S: Some major flaws in the flight modeling: limited number of missions and no reission heibter



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 The maximum air speed of the F-15E Strike Eagle is:

a) Mach 2.5 b) Mach 1.8

c) African or European?
 d) All of the above.

The armoment of the F-86 Sabre is:
 a) one 20mm Vulcan cannon

b) six 50 caliber machine guns
 c) a pair of coconuts

d) None of the above.

3. The powerplant of the F-16C Fighting

a) one GE J-47 turbojet b) one GE F-110-GE-1000 turbotan

 c) one GE 36-inch frost-free refrigerator with ice dispenser
 d) a non-GE engine.

To Enter: Send a postcard with name, age, address, telephone number, and the correct answers to the three questions listed to "Summer Sim Sweepstakes, c/o Computer Gaminy World magazin, 135 Main Street Half Hoor, Sin Prancisco, CA 94105," or send an email with the same information to: summer_sim@zd.com. All entries must be received by 11:196 PM. Pacific Cost time Aquost 30, 1967.

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Direct Hit



Westwood Delivers Solid Single-Player Gaming With This RED ALERT Expansion Disc

by Elliott Chin

estwood learned a few lessons the last time they released an expansion set for a hot Constant & CONDUERCOMO Though even CCW cave high ratines to C&C COVER OFFERDIONS, in ret-

respect, it wasn't all it could have been Sore, it gave us some new missions, but that was it. No new campaign, no new units, just a series of disparate scenarios. It pat wasn't enough. So this time, Westwood is doing more for RED ALEXT with their exposition disc, COUNTERSTRAT.

With this package, Westwood is giving. us some very cool, new usuts and not only better-designed missions, but missions that are grouped into mini-campuigns.

MULTI-PART MISSIONS

Wheavasin Covers Oes the asissions were unt a stand-alone mis. In COUNTRICTIME, at least the Alked musgons are all prouped reto misticonspaigns. One mini-campaign is centered amond the Sextet's chemical weapons production. In the first mission, you mast step truck convoys loaded with sum ow from leaving a Soviet base. The second masion fields you tracking the

then those to 19-to ALFRIT and centenlydffedt courbfortor

HI TO YOUR ANT To access the secret and ssions, hold down shift and click on the round cost of the snesier on the main menu.

sarin shipment to a sus production facilits; where you have to infflunte the austaliation. In the third and last mission, you find the base where the saon gas is stored, and you must then destroy the camp

Unfortunately, on the flip side, the Soviet missions are a hoder-podge, and while good, lack coherency and an overarching story.

The variety and design of the missions, in comparison to RED ALERT, are outstanding For example, the second soon mission actually takes place in the factory, and you have to move from one end of the installation to the other. The level is very touch to heat, though, and you'll have to evolute the more. He structure to find the right computer termireds to disarra flarge throwers, all the while keeping your one essential spy

safe from natrolling does The levels also aren't about outproducing or skeeply destroyens your presopent, there are other mals which make the missions lander and more interestme, as they did to an extent in RED ALERT These are timed excert missions.

civilian execution missions. base inffitution missions, and seeb and electron missions Westurned and they make the COUNTRISTREE missions less diffeelt than they could have been, but these missions were torober.

MULTIPLAYER MESS?

However, meny people who but this examsion disc will be doing so for the new units and



FLAME WARS The missions in Countriestree, such as this nstallation battle, are varied and challenging

the multiplayer maps. Unfortunately: while the new units are enol, they men't awikble for multiplayer games. You also can't play on the 100 multiplia or maps with others unless you all own the Construction, due to its defense Westwood is working on a patch that will allow you to play the new multiplayor many with others who don't earn the CD. The notely should also make the new units available for multiplayer use Lastly, this patch should believe tank rush by owing the defender a more rapid building time for defensive structures.

Though multiplayer cutlinguists will went to wett and verify that the patch does offer the new CERTYTERS TUKE units for multiplay before beauty this expansion due, those wanting sworter RAmissions and cool units won't miss with the Conservations &

PARRIERAL: Salo Res Auer players itching for near units and some smart mini-campaigns and missions. PPROS: Coal new units; well designed, more challenging missions; some missions strung together in mini-compair

FCOMS: Can't

plant names:

still lack over-

arching story.

play the new mits in multi





Price: \$24.99

Requirements

Minimum System

Windows 96 or CCS 5.0, 8M8 PAM, 20M8 hard drive space, VGA graphets, Sound Staster-compositive Mulliplayer Support: Modern, Null modern. Internet (2 players), TPX (2-8 players) Designer: Westwood Publisher Viroin Invite, CA (BOD) 874-4507

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YOU'VE LOOKED

Even your high school yearbook picture was more becoming than this. But as an allen, glamour is not high an your agenda. Sa, bust out of the traditional strategy game notel, morph into a human and make aremies with your friends. Conquest Earth is a world you'll want to step into very corefully.



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You can play either side in this intergalactic strategy game. Insteady marph into a weapon or battle tank even a human being



unique interface with different rules and capabilities. You'll employ never-before seen tackes and strategies to fall your human counterparts.



Vary your strotegy to keep your apparents guessing. Keep track by manitoring them through your interface panols. With over 65,000 colors, the action will come to life like never before.



Flaying the human side, you'll need to manage your resources which Throat the altern' attempt to mine average from the atmosphere. Only one race will remain standing after this wor. Make size its yours.



Rock and Roll

Interplay Tries to Make a Game out of Deep Space Asteroid Mining

by Martin E. Cirulis

he exaceslotation escues just keep coming this year, and now Internlay has a new entry that hadens back to the old sci-fi games like MJJLE, where commerce - and even mfring-meant were than lasers and rules In FRACEE ALLEGANCE, you take the role of a human company-emissiontative charged with prospecting and mirring a

new sector of avernids 16 a difficult enough job, with make burting through the dark at 30,000 mph and deadly accidents taking their weekly toll on workers and equipment, but when you combine that with up to seven other alten races that are looking for the same ore, things can get pretty hairy, a specially when you scaline the garne's title refers to the state of diplomacy out there.

PEBBLES IN THE SKY ALLECTANCE is a resisting space.

plottation game of a very interesting stripe, Instead of the usual accent on the eXterminate portion of the four X's (eXolore eXpand, eXoloft, eXtennionte). which we find in almost every game of this grow. ALLECTANCE revolves around

THE ROCK in Favour Autowore, you colonize asteroids as if they were planets. You have to build life-support structures, mining equipment, and defenses

molene a profit You might be forced to fight in order to survive. but you must do so while keeping OR END OR NORTH credit belance

and resources. is treated much as a single planet is treated in games

Ne MOOIL except here many of them deft around the map

on different vectors - and ves, collisions do occur, much to the despair of anything on either mek. Expensive technologies con either built the drift of an asteroid or in some cases, provide it with the engines necessary to patter slowly out of harm's way. Once you colonge an asteroid, you must build the necessary life-support structures, as well as gamer enough nower air water and food to keen your workers affice. Then you can slowly build

un verrenters Depending on your strategie needs, rocks can either be kept as simple mining operations or halft up into mobile fortunaces or drawords, or a combination of the two The mining aspect

> of the same is relatively simple, but beginnt emouth detail to keen things interesting Each asteroid can have up to ten déferent minerals, and a scout sleep can be delegated to prospect for deposits so you can mek the most profitable real estate to

exploit. The minerals

come in three basic

ASTERDIOS-R-US You're the head of a space-home corporation that is attempting to create a mining empire while fighting off the industrial and military incursions of mol. alon companies

> and rarity. Surface oces are plentiful and only require basic technologies, the rarer ores can only be found deep beneath the surface, and in smaller quantities. Often, you must belance cost and profit before casefully deciding if it is worthwhile to dig deep. Every few menths, a company transport anives at one of your astemids to buy up any of the stored minerals you are willing to part with. This provides you with the bulk of the mency you'll need to maintain your current recentions and

expend outward into the high frontier Technology is also elevedy handled to ALLECIANCE, which allows players to expend their abilities without undergrofor the property of the same.

ALLECANCE were looteelly not a research for out of your reach, and instead allows you to order blooprints for voitors new technologies from another company After paying a considerable amount for the nelits to build or use a device, the blueprints arrive on the next company transport and from that point on they are part of your technological base

With dozens of asteroid bases possi-He in large games unicommunication can become a problem -- but luckfly, for a coltry 10-30 thousand credits a month, the commons will provide you with a manager to handle the day-to-day strems, besed on death



DOS 5 0 or Westivan 95 Multiplayer Support: Modern, serial connection (1-2 players); LAN (1-8 planers) Designer: 10m Plake Publisher: Interplay Irvine, CA (714) 553-6678 www.interplay.com Reader Service #: 332





SECRET AGENT MAN Combet lan't crucial to victory, but you must resort to military means, you can always employ sabeteurs.

problems, such as belancing life-support or building up mine shafts to efficiently strip your avecroids. The real wonder here is that these Al ascets are actually very competent at their ichs, and can even benefic players adding various structures to awteroids under Al control.

Unfortunately, while capitalism rules the galaxy and all the mees are technically at peace, you'll soon find out that the word "technically" leaves a lot of room for rough stuff

DIRTY TRICKS

Workers to ALLECTIONS is often a necessory exil, size namely to the computer players tendency to bit first and then talk, but in keeping with the theme of the same. It is an expensive and wasteful cyll as well.

When an externed from an after race (or human competitor in multiplay) comes within seamone times, you may use the opportunity to converse with the owner and discuss intricate nonappression or allegence contracts These contracts have not only a strict duration, but also carry a befry monetary penalty, should you break them. You may also trade with opponents, swapping a huge list of excitoric items. and respine mutual profits

On the other book if the automid be't is just too small for the both of you, you can resort to maybern along three poths: covert operations, missile attack, and staishin combat involving shin-toship and ground operations. The covert path is available by luting freelance agents to engage in theft and substage in often asteroids. Missile attacks are

your basic asteroid versions of ICBMs, and these are nearly a dozen different types of warheads available covering the gamust from high explosives to biologicals. These missles are launched from one asteroid at another, with distance determining what rough percentage of them will reach their tirret. Once there, they will have to heave any anti-missile batteries nesent before deterating Starshin combat is simple but elegant, you can build a variety of built, from

fielders to buttleships. Weapons come in either ship-to-ship or ground attack types, thus forcing players to commit to offense or defense when constructing a fixet Combat is resolved automotically. and often grand melecs occur as fleets circle an asteroid blasting away at each other while the attackers strafe installa-

tions and surface-based batteries return fire. There's not much tactical strategy beyond the ship deployment. Pinen can ether increase or decrease the war-like tendencies of their neighbors when setting up a game, so star generals can make it a battle to the death while yourgetycoom can nedge the computer

players toward better restead of game. DRIFTING OFF TARGET These features and the great SVCA graphics would seem to push FRACILE ALLECTANCE Into the fave star mark. But. just when you think the game is on the years of excatoess, you find some dis-

turbing omissions and balance problems that binder as otherwise excellent sumo-The first problem that comes up is the indulty to chance some speed dunner the come You can specify speed when you enter a same, but you can't change it, and the cotions are naltry slow medium, or fast. Agen't stider bars for game speed a given in real-time manies these days? Another strange gap is that although you can play against an inter-

esting army of aliens, you cannot play any of them yourself Even in multiplayer games, everybody must be human Other problems with ALLEGANCE involve come-balance, and are a little more subtle, but detract from the error nonetheless. Mineral assets on automids play out very quickly, and so your money curs out just as fast. Instead of

simply making the rocks in this game meatier, the designers introduced a tax return for every worker under your custrol, so while everything in the game tells you to create learn, ultra-efficient workforces, actual gameplay dictates that you build up large populations of nersonnel who do nothing but nlay

video esmes and nov taxes. The endgeme is also disappointme - you just get a generic spreadsheet marking all your accomplishments in the game, and there isn't even a saved both score feature to make a notal of continued play Perhaps a careful study of the endgame in Cry would have been a sood idea before Interplay sent

ALLECANCE out the door. And, in what is becoming a very disturbing trend in seafustrat titles lately, the manual with this some is sporse and inadequate. While it does cover the basic workings of the interface, it closs very little to (floremate the actual mechanics and technical details of the game. There is no way to tell the effect of various ship. weapons, except to rely on the notion

that the more expensive a weapon is, the more damage it must do As unfortunate as these flaws are. FRACILE ALLECTANCE is easily the most fun I've had at a spaceploitation game so far this year. The play is unique and infinitely variable, with a constantly shifting gamefield and tenscious Alapparents. Interplay has gone far in delivering a sci-fi strat game that actually takes the environment and mechanics of space into account, and they've produced a game that's smart as well as sexy. ALLICENSCE stands well must from the more generic fore populating

compressible loss this year % PAPPEALI Gamers who want a different kind of strategy game with some realistic space effects and a good economic medel. PROS: Original, impositive gameplay and mechanics: detailed propios: economics are as important as military strikes: effective Al.

PCOMS: Cost economic angle is near playbelance: barely edequate man al: lack of variable speed



heroin 5-6-M unfiltered cigs binge drinking EFE3MED-ERFR one night stands

hell, what's left?



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Fallen Gameplay

I-Magic's Newest Strategy Game Is a Tired Bore

by Tim Carter

nce again, humantly faces a sheat to discontrace. A hodde dadle mere—mile turistic, stropholosi, and best one our definition—lass, for the unique contraction time, include his picture, and they made be defined if we are to a sidely empty the faces of the contract of the picture. White of human to the faces to the contraction of the co

We've brand it all before, and with more creativity in this tood no-venuethem plot. Sailly, the only creative thing about this grands ferfort in the assumption that markind will ever first a new more unthanning, sample obe; and destructive than itself.



BOIDT COING...

XCOM was clarly one of the designent experience, A good choice, I you ask
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WHERE OTHERS HAVE GONE BEFORE
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system leads to dull, repetitive buffer that
system leads to dull, repetitive buffer that

gune measureful Players may move and fire each unit individually, and some actions may chell a rescense

generally
counterfre—
from proximate
enemy units
Combat takes
place when you

accept a mission, which generally involves accomplishing a set of objectives in

firepower to take you out

objectives in return for a perticular reward, Even with a variety of units, however, combat is boring. It generally bolds down to moving your sents lead positions where they can see the enemy and then remaining enough freepower to take the land areas out before they set comount

The studgic game has more promuse, but altimately earth overcome the hundrum nature of the sactical engagements. From the coloury ascent, physics have a weater of SwoCriv-like building explicit in the maje be used to desdep their eclosy. For sustance, buildings require mode and power (via power plasts). Everything costs money in build and remitters no your stream.

tends to revolve around friancial and resource management. At the some time, you can tinker with your colony's research efforts, charactery your ascentials' efforts into vactions fields in order to develop more deadly weaponry or more efficient burkings. All in a dayly work fee the neutre commonter course, this is notifier neutre connection this notifier.



TANKS A LOT The dull taction buffe, where you light like inveding alters, is the worst part of Future Haves.

new noe particularly stimulating.
On a positive note, FALLIN HAWN
does not suffice from the technical
glinches that helped to snk DESTINA,
l-Mugle's list strategy gene. The interface is intuitive and easy to meningulate,
the graphics are clear and easy to
understand, and the commencals are

easy to execute.

Still, none of the technical competence displayed in the game's programming can overcome the essential dullness provided by the experience of playing this all-too familiar game. §







Requirements: 486DX/100 (Pentium recommanded), 8MB RAM (16MB recommended), 30MB hard drive spece, Windows 95, 2x CD-ROM drive, SVGA graphics, supports meet major sound cards. Nutligitager Supped:

(800) 296-0872 Research Triangle Park, NC www.magicgames.com Reader Service #: 314

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Rear Admiral

Contemplating Your Naval (History, That Is)

by Bob Proctor

n ADMIRAL SEA BATTLES, you start

with three ports and some money to began beriding slaps, of which there are II types. Later in the game, you can build forts and more ports. The mep isn't randomly renembed but, instead, is selected from the 17 available, all consisting of islands seattered around in an ocean. The six startme ports are always in the same locations. so each map has its own particular strategies. For example, in some the scenarios, alends form impessable chains with only one or two neverable channels through them; these straits become focal points for fort braiding and fighting. Money. though, is the real key to the same. New ship can be built - or lost - in a single turn. Whoever runs out of money first can't repair or build replacements, and



CONFUSION TO THE ENEMY! saffing vessels" Actually, any knowledge you have of tactics in the AGE OF SAL will some as a bandicapin ASB. Battle lines



BLAST FROM THE PAST? ADMINI. Son Burnus looks and place such like a COP game from days gone by, but it isn't as addictive



PRIMARY COLORS A siguidate of red ships has just destroyed a green fort quanting a some. Holes in the sails show that the red ships have taken some damage.

have no meaning, the weather gauge changes randomly each turn, and crew strength for boarding is determined by the men in excess of the number required to man the ship. So, a transport with full crew can often capture a three-decker that has crew losses. There is a consistent twetteal doctrine that must be mastered to be successful in this game, it's just that it has nothing to do with history. It might have been better if ASB had been done with a

fantasy beolground - Bersooman Air-Bag Buttles or something similar lo solitaire mode ASB n not so much a strategy

necessary to

have the

modern petunik or ensit if spessible & same as a difficult senes of mosles that solvedin mode of play; decent 2-player game, sequence.

The Al is very **PCONS: Preflictable Al: clum** predictable in all of the missions, as well. Moreover, to win its often

wind in your favor several turns in a row, and the unpredictability of the wind gauge can be frustrating. PASSED OVER FOR PROMOTION While this wa sold piece of program-

ming there are several arrowances. The user interface is simple but clarge, the musual is minimal, and the map is always portially hielden behind floating control bers Plus, lots of extra mouse clicks are needed to do sample things like move a ship or see its status. Hey gays, how about using the right mouse button? I can't reccommond Acoustive Sea Barriags for solo play, but as a simple two-player game over

PAPPEAL: Amose who likes ense-style conquest games with a 6: Supports every conceivable

4860X2-66 8M3 RAM. 25MR hard drive. space. Windows 95 256-color \$VGA graphses 2x CO-ROM /Ay recommended! Windows-control thin Multiplayer Support: hotseet network modern, or email (2 players). Besigner: Mendan/93 Publisher: Megamedia San Jose, CA

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Bander Service #: 335

mum System



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CUARLORDS III · REIGN OF MEROES

CIJIS SCHAFICK GOGGGGGGGFREDRISCOTT



Fresh Ammo



by Terry Coleman



he original STEER PAYTHERS was a relevation, a great step up in scalism from games like PANZER. Coxtinue, but with a sindials accessible interface and crisp graphics, STEEL PAYTHERS II was a very good game, but with a slightly worn laster. However, sales of STEEL II were brisk this is, after all, a sequeldriven business.

The surprise, there is that Coveroces Disk #Lis not your typical add-on pack. but an enhancement that supplies a needed spark to the STOIL POVITIERS franchise. Air sinkes are better integrated, opportunity fee scenes more realistic, and even the Individual scenarios are better balanced

than in the percet game. Some of the more than 30 battles, such as Grenardy are academic exerrises while others are little more than

IN WITH NOWHERE TO GO IN Flores 998, you don't have to wait long for the lireworks to begin

thinly-veiled pameerfests - but are no less emoyable for their acmor-worship enthusiasm. The real treat, though, are the politically incorrect exampaigns, two of which feature an aggressive, unified Germany in the 1990s taking on any European powers that stand in its way A more sober companyn covers the very

seal possibility of an explosive North Korean-South Korean conflict in tomorrow's headlines.

This is prime material for warraning, and if this controversial add-on pack gets benned in some overly-sensitive Euroclumber, then fine, SSI deserves a lot of cgrdit for shaking thiogs up, I hope this attitude will carry on to Street Paymers III % PAPPEAL: Among interested in

modern warfare PROS: Great hypothetical camiks to a reat system CONS: SUI

one miror rea re's tiru

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Multiplay: 2 players email

Obscure Wars



by Terry Coleman

n the old coelboard days. If you wanted to same your way through the Franco-Prussian War for some simelarly obscure fare), you went to Stratesy & Tactics manusing. or took a chance on hand-enafted labor-of-love designs shipped in ziplock baggies. Oh, how things change Take ACE OF RIVLES, for example: This is about as comprehensive a look at middlate 19th century warfare as you're likely to find, and with a complete editor. to boot, seemingly, it's an endlessly senkwable product. Yet, the elamor for new Reputes scenarios and compaians is

PHANTOM OF THE OPRY Hood's Offensive ultmoney falls to show why the general's campaign for Termessee failed.

From Son Assorts the French Foreign Lesion, the scenarios are cleves, and fill same of the holes that even a wide-rameso speat that SSI had this add-on disk ing smulation such as RELES must have in production weeks after the parent As might be expected, those created inhouse by SSI are more pelished, but they eren't always the best. On the other hand, it lacks that PANZER GENERAL-escare sense of scope and wonder characterized by the Soldiers of the Oweer compaign from the original RELES Many of the other obscure battles have been done better elsewhere. There's plenty of value here, but it isn't the must-buy that CIVII SCENAROS OF WARCHAT II: REYOND THE DARK PORTAL OF S

PAPPEAL: Fare of obscure wars





Required: 488-68, 8MB RAM Windows/DOS 5+ CD-ROM fulfilates: email, hotsest (2 players). Publisher: Strategic Signulations Sunnyvalle, CA (803) 245-4525 www.ssignline.com Resder Service #: 337

Price: \$14.00

game shaped.



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LORDS II is a



Mystery Train



The Prince of Persia Puts Adventure Games Back on Track

by Petra Schlunk

bile many war and strategy games are based on real-life historical events, adventore games tend to be based primarily on fantasy, mastery, or horror stories. Perhaps sensing that the well has began to run dry, many advontime game designers have recently turned to historical settings, as well (Travice

ADMENTAGE OF THE CHICAGO Sectional Versyttes 1685 are good complex). The LAST Express, which was designed, directed, and co-written by Jordan Mechaer, of PRINCE OF PERSAS. forme, is a carefroiting look at real-life events from a semi-fettorial adventure earning angle. But don't think this means you're in for a boring history lecture 'Ditt. LAST EXPLESS is also one of the best adventures released so far this year



ing the last run of the Orient Express. regions its famed Paris-to-Constantinople run Europe, on the bank of World War I,

is seething with intrienc - a forcreating merocosm of which permentes this voyage of the Orient Express You play a young American obskien. Robert Coth who jumps on the train (sans

> heleft as it HELLO GOODBYE A resty surprise—a dead friend—avoits Cath after leaves the Pais he jumps onboard the Orient Express. station You do so at the behint of your friend who is involved in affairs that are careful spin-

ning out of control. Once abound, you discover that your friend has been killed. You must

asseme his identity to stay on the train and learn what has becomed to him. During your three-day younge, you encounter passengers from all over Europe, many of whom are involved, to one degree or another, with the events that are currently marching Europe toward World War I. Not only must you.

learn who is on the train and who was count take over your friend's negotiations with several

characters on the tran You'll have to survive direct attempts on your life, destroy a threatens to blow up the train, cavesdrop, search the pas-

sengers' com-

partments and

all the while, try to avoid getting arrested. The clock is constantly running against you, even as time is running out for Europe.



Crophically, Tell LAST EXPURS expertly places the aumer in the longgoes, opulers setting of the Orient Express Making use of photographs of the train's interior, the game successfully captures the ambiance of the period. Clever use of onimation based on live. action footage (rotoscoping) results in an elegant and pleasing visualization of the conse's events. Most of the corne takes place from Cathi (the ozmeri) perspective, but important conversations, fights, and other significant events are shown from a third-person viewpoint The sound effects, beautifully played

music, and outstanding acting all contribute authenticity and ambiance to THE LAST EXPRESS Particularly impressive is the use of actors who speak the numerous other languages on the train (Cerman, Russian, French, and more) in what seems to be notice accents and dialects. While I can't worch for accuracy of all the languages, I can attest that the Cerman was quite authentic, and I

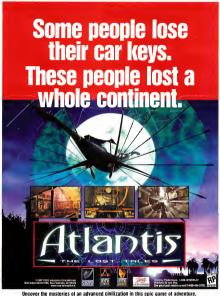


Minimum System Requirements: Wandows MHz 486/002 for 00S). 8MB RAM, 35MB hard disk snace, 4X CO-ROM. SVGA graphics, Sound Blaster 16 or compatible gard. Macontosh requiremonts Power Mac with System 7.1.2, 16M8 RAM, 35MB hard disk strace, 2X CO-ROM Multiplayer Support: None:

Designer: Smoking Car Productions Publisher: Broderbund Software (415) 382-4400 www.brederbund.com Reader Service 6: 318



on a requiar basis by many of the train's passengers JULY 1987



Uncover the mysteries of an advanced civilization in this epic game of adventure.

Breathtaking visuals. Exotic locations. Plot twists and intridue. All to be found in Atlanti



HELPS The passengers are in terror after the train is hijacked by a gang of Serbian terrorists

suspect that the rest were as well. Since there is little that desapes assperision of disbelled faster than a "native" speaking with an incorrect accord, I was very pleased to see this extra level of effort.

pleased to see this exist it will of emort.

This LAST EXPRESS has the stimulard adventure game point-and-effect interface. The cursor changes when you can move or when you pass it over

objects or people with which you can intenct. Offer, the custor changes to a specific inventory item when you come to a place whene that item would be useful. Don't rely on this feature too busn'th, though, you frequently must select an object from your inventory.

before you can use it.

When you can pick up an object, you will automatically do so when you chek on it. To bring up your inventory to view something or to.

when you chek on it. To bring up your inventory to view something or to select an object, chek on the picture of your character at the top of the game screen. Cath can carry much of what he

fash, although he won't pick up everything he essimiles TRAIN IN VAIN

TRAIN IN VAIN
There are no saved games per se in
The Lext Express, although you can

play up to an genes concurrently. The game unternateably saves anyou play. When you die, get armsted, or are othecrevise unsuccessful, the game automoticelly rewards in time to a point at which you can invert this desaster. You can also manually reward the game to replay segments dif-

fecently The only problem with the problem with the nationative rownd feature in that it, only rewards to a time prior to the cument disaster, and you may in fact to beading (because of canber metables) to sanother disaster in the near future When you in that need disaster, your same may be

rewound by over

two hours. Such long rewinds can get frustrating, not only because you must replay a luage chunk of time, but because you may have to play that spam of time.

over and over again until you get it right.

THE LAST EXPRAISE is one of many
games where concern text is not an
option (the only text appearing one translations of conversations in fortup langeograp. This makes playing the genewithout sound impossible—an unfortumate inchance for those who must (or
prival to law to save.

The puzzles in The LNST EXPRESS are atmost all legical extranters of the gamest story briding from the authorities, searching people's belongings, using information from corn-extraorins, surviving some fights, and avoiding various disosters. The only puzzle that does not follow from the gament story in figuring out have to open a

golden Rechird egg has as also many optimal activities, incleating paying clines attention to the vanous alreas being physic do of by the trainpossengers. These ento events are designed to fill out the story, if you mais something, you are always provided through interestions that Carls north assed in order to facilitate mouters when the story.

ALL ABOARD

The LAST EXPUSS nuceenfully combrems intiges, unproses, tagged, and senumes in and, two ching habitotic chinase. With game, play the engowing players word in tall the last of Jagatha Chailate or James Bond from the Octor Express passenger but Meether and halange seam have enticled this pame with superby priphes, sound effects, music, and an well-stay, desided stay. For a seat widying and spectationly demantic laterality and activities and personal part of the property of activities. The Powers Sea

PAPPEAL: Adventure gamers; mystery trass; histery hutle; anyone who appreciates a rich historical drama. PPROSE Original, compoling story; strong graphics, sound, and music. PCOMS: & fras-

traing rewind feature that can take the player pretty far back in the game's stery; no enscreen text



Puzzie Clues



ohe the frebird puzzle by studying the Risesam poem found in your deat friend's betoring in. The lacchors to whath the direction which the first which genes to pees on the egg, and in what drock; to open II. Practices opening the egg (after you find id), because when you have to open ii. you don't been a bit of time. Finding and defeating the bord on the train can be difficulty and defeating the bord on the train can be difficulty and defeating the bord on the train can be difficulty.

Finding and deflating the bords on the tarn can be diffican. Sealch between the sleeping can but you matches and falegram to senoue the borno and to defice it Figits are in red firms, but you can figure out what Cash most do to sould perfor it for to burd purches by wetching his opponents. The final sight is on top of the takin, and you have to duck quickly at one point in the faith to avoid beneal field by a time.



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CINCLE READER SERVICE #1885



The Empire Strikes Out

The Dull Side of the Force Wins in LucasArts' New Desktop Adventure

by Robert Coffey

wenty years later. I can still remember the movie theatre where Lany Star Wars for the first time. Consdering tá the same place where, over the patteo weeks. sawit my second, thed, fourth, and fifth times, it's

not too surprising that ifs wellembedded in my inemory. The Star Was movies' status as beloved cultural icom is fronte established, which helps make a product as resoundingly ill-conceived as YODA STORES doubly disappointing Bong a brownesse is had morely but most rewith Ster Wise? That's practically estimate

RERUN OF THE JEDI

Daniely toyne to capture the solitaireplaying portion of the gaming politic, YOUN STURES to the second in LexinArts' series of "desktop adventures," in which a new adventure is generated with each new game file first was brow's Descripe ACMENITARIS, in illustrous member of per 50 West Genes of All Time lists.



ELECTRONIC GUIDEBOOK The Terrain Locator reveals puzzles and tolls you how to solve them, mercifully speeding your way to concluding the came



BOBBLE-HEADS With oversized heads and finy bodies, even imperial stormiroopers look file they'd be more at home with

the Magnet Rabies or on the dashiboard of your par Every game begins on Dagobah where you as Lake Skywalker, most find Yorks to discover your mission goal. Then, you head off for Hoth. Throotoe, or some other planet to rescue I fan, foil an lesperial plot. and so on. This would seem to offer purposity variety; but the opposite is tree.

> Each boar-long game runs in a tiny window and place out the same. Luke travelythe large He-based map of the world, enclosely finding and retrieving things to tende for more threes to finally set the thing he needs to grid the damn same. He fahts hostile creatures, allers, and imperial Stamptocopers in combat episodes that can be generously described as tacklaster

The presence distance interface is a unit of sluggeliness and mania. While lefteliclimy objects adds them to the inventoover it is also responsible for movement. Multiple clicks on frequently recurred until Luke finally moves his orangeturnmented best from one source to the next. Leder displays an approving tendency.

to enter and cet buildings repeatedly Preades consist of pushing and pulling blocks and crates to find objects or gain access to areas. Plaws in world generation make some of the puzzles unsolvable. If blocks are placed too close to the

edge of a map screen, Luke can't drag them into the next serron. If he con't reach his goal from the other side, it's time to start a new game

STAR BORES

Fighting is also frustrating Lake can attack any adjacent square with his light sober only To use a blaster. Luke can only shoot at right angles above, below, or to either side of him, not disposable Yet

Master-wielding enemies can attack from any square next to Luke. This is inconstitut and unfatr The garee is graphically dated, featuring cookie-cutter worlds filled with big-

headed, catesified characters and silly monsters that are just this side of being flat-out embarrassing. Luke's light sober looks like a neon-blue conductor's baton - Zubin Mehta as Jedi Knight

YORK STORES has bun sering graces the Terrain Locator, a map that reveals unsolved passeles and tells you what to do, thus hostening the game's end and a smottering of footage on the making of the new Special Edition Star Were moves - footoge which is better seen in the cineroa. Camers hannery for Star Ware action should wait for X-WING VS THE FIGHTER S





compatible mouse. Multiplayer Support Designer/Publisher: San Balael, CA (80% 985-8227 www.lucasarts.com Render Service #: 320

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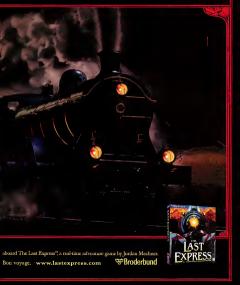


It leaves Paris with passengers. It



It's 1914. The world is on the brink of war, and this train could push it over the edge. It's up to you to untangle a complex web of political intrigue, suspense, romance and betraya

REACHES CONSTANTINOPLE WITH SURVIVORS,





A Fistful of Doom

This New Shooter Evokes Memories of Spagnetti Westerns and Doom

by Mark Clarkson

ucasArts' new first-person shooter, OUTLAWS, gets off to the best possible start. The animated opening scenes do a great job of drawing you into the game, and the opening credits skillfully evoke the mood of a "spaghetti" western. Similarly, the musical score seems lifted from one of Sergio Leone's epic horse operas, and could have been composed by Enmo Mormore Himself Those who routinely skip past such things will be missing

out on the best part of the game It's when we get to the game (and, specifically, the gameplay) itself that we run into trouble. Let's face it this is basically a DOOM clone And if a Descriptione is entire to grab mix admittedly raded attention in 1997, it

had better deliver something new But Ourn says is a Western but't that. in and of melf, exposib? Surprivinglythe answer is no. If's not. As Lembarked on my journey of revenue in this Whi

Wost, I could never shake the feeling that I was just playing a backed version of DOOM - only one in which the maraters were replaced with cvil cowpoles instead of Barney the Dinosaur

The format is familiar You make your way through levels teening with baddies. You have to coffeet keys, push buttons, and throw switches in order to open a securing of doors which eventuelly lead to the end of the level. Along the way, you collect wespons, ammo, armor, and health, all the while keeping your eves open for subtly hidden doors. You can walk run, swim, exceeds. tump, and slide from side to side, as well as look up and down

The levels do mix it up a little. with run bettles taking place out side among the mesas, within darkened mine shafts, along the high wells of a log workede, and from car to car within a speeding terin

Each level



HARSHAL LAW In Ourseas, you're the exmarshal brought out of interessed when the evil entrepreneur has your family murdered.

FOR A FEW PIXELS MORE OUTLOWS sports a weird look-a blend of 2D cell animation and 3D

shooter that just doesn't cuite mix. The textures are highly pisclated, even at 800 x 600. In some places the polette seems hmited to less than a dozen colors-you can barrly tell the dance from the walls.

The graphics are, in some restances, astrontelanoly moor Sticks of dynamite are desicted as pondescript tan motaneles with black stack funes. Throughou knives are little better, and the rifles and various shotauns are virtually indistinsuishable from each other when they're lying on the ground-you don't know what you're getting until you pick it up. While you might not expect to be daughter on the sble to tell one pig-like alten from

another, or to distinguish one body-

Price: \$54.95 Misimum System irements: Perturn EO. 16MB RAM. 61MB hard drive space, 2x COLBOM drive (4x recnmended). Windows 96, SVGA graphics, 18-Multiplayer Support

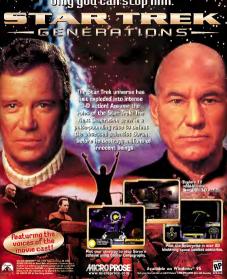
Modern, serial connec-LAN, Internet (1.8 players) Designer. Daron Stringer Publisher: LucasArts (800) 985-8227 www.lucasarts.com

Broader Service #: 321



next bit of movie. Fitfingly. most of them make a little speech before they finally give up the ghost "You've too late. He took weer HIGH PLAINS TWISTER Part of the challenge in Oursays is not esting the innocent civilians who cross your path. train Yes. "

caw JULY 1997 The Regus is calling a madman. Only you can stop him:



among storotopoor from the next, it is nainfully obvious when you've shooting the same four cowboys over and over at a distance, you can almost tell what weapon a env is packing by the shirt he's wearing.

The bed owns beent you continually. but they only know a few trunts-"Where are you. Marshal?" You're outnumbered" "Had enough vet?" "Hone you plant better than you shoot? and 'Don't be a foot, Marshall' - all repeat-

ed over and over, ad nusseam Sounds fade away for too goickly with distance You'll see had govs standing 50 feet away, their guns blazing, but you can't hour their 45s. Dynamite going off 100 feet down a mine shoft makes no sound, though

you can clearly see the flash leterartisty is inconsistent Some windows can be shot not, others carr? If you shoot out a lorno in a stockade at night, the room doesn't get dark. The

shettered form sets the floor on fur. but the fire neither spreads nor begas you if you stand in it: its only nurnose seems to be to explain the goom's continued Dummeton

There are cows and horses. but you can't ride them, kill them, milk them, or interact with them in any war, they don't even say "Moo."

WHERE'S THAT CHICKEN?

In addition to the main game, OUTLAWS provides historical unissions (one-level bountyhunting quests) and multiplayer gaming-both cooperative and deathmatch -- over modern LAN reinternet Each marking perdy by own CD, but Orraws comes with two CDs, both of which support multiplexyr play.

In addi-

tion to tradi-

tional death-

multiplayer twists.

including Capture

the Flee, and "Kiff

the Fool With the

Chicken "where

players can only

mg the checken

ever play a multi-

player version of the

main game. A finered

and I enjoyed work-

ing our way through

DUM NUMBER 3D

mode This is not an

cetion in OUTLAWS.

There's nothing

really worns with

OUTLANS There

just iso't that much

right with it Sine,

there's a plot which

unfolds as was new

Throweven the occasional nearl of

in connectative

DEJA VU

shoot the fool hold-

You corner bear

matches.



LE FIGHTER The ormoo marshel will have to kill this taurting bandrio in order to advance to the next level.



FORGIVEN Deed bandits will litter the floors of the sawmill before the marshal is able to

solve the water puzzle great dislogue ("You never shot on impo-Otrn AWS provides cent man," which is followed by, "I never some enterlatione met an impocent mon."). But the not us if

soule choosing the dialogue, or making decisions which affect the outcome of the story, you're simply shooting your way through one level after morther The music, art, and interface are shocketch first-rate. The enterated cutscenes are well-done, if not superlative.

But, unfortunately, the core game is lame and unattractive OUTLAWS lacks the interactivity of DUXE NUMEN and the tension of QUAKE. And, despite its exotic (for a computer game) setting, it shows us nothing rew in terms of gameplay &

APPEAL: Aware tired of Dose-ing. Dava-ing, and Davaing it out in faturistic settings, and who wants an old-Sashiened bettlefield instead PROS: Tenific music; great animat-

ed out-scenes; a new look for an old penre; fun multiplayer epti-CONS: Pec graphics; mostly an-interactive no of "be

irst and foremost, you have to learn to drive the game with the mouse. Duruws' mouseclus-keyboard interface is especially easy to use and it creatly improves aim and speed

over the keyboard alone Reload early and often. Jam a few more shells in the old shotour whenever there is the skintest break in the action. Never go through a new door without first checking your load or the dry "click" of the hammer falling on an empty chamber may be the last sound you hear Choose your weapon carefully for each encounter

The saved-off shotour is devestating at close range, but ineffective past 20 feet or so. The Bowle knife is quiet. The .44 rife, with a scope, can take down an adversary at 300 yards without his over seeing you

Careful with that dynamite. It is practically impossible to throw the dynamite more than six feet, especially if you're trying to throw it through a window or door. The best way to use dynamite is to drop it and run away. It can provide an unpleasant surprise for anyone chasing after you. Remember the crouch key. You make a much smaller

target if you're crouched behind a barrel. And, if all else tails, by these cheat codes OLPOSTAL Gives you all weapons and arrimo. OI COS Super map mode. OLREDLITE Freezes all enemies. OI EDG Displays frames per second. OLBANCH Takes you to the Barich level. OLMILL Takes you directly to the savmill. OLMINE Takes you directly to the mine.

JULY 1987

Welcome to the new landscape of War.

CAVEDOG ENTERTAINMENT

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HEAT. MAYBE.



HOW COULD WE HAVE BEEN SO WRONG FOR SO LONG? Telking about page singing about peace, protesting about peace.-(I's all been ONE BIG FARCE!) We can't tell ourselves to be pasceful eny more then a computer can tell itself to do a pirouettel. Bad brains will be bed brains! But Dr. D.G. Berthe's CyberDiversion Theory says, if we allow them to be bed in a place where bad ain't so bad (i.e. on the HEAT™ Internet gaming network), it's ectually good! We please our bed breins and no one gets hurtl HEAT IS THE FIRST STEP TOWARD GLOBAL HARMONY!

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Increase the level of competition-the more you dominate and destroy in cyberspace, the more peaceful our reality

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TANK, FAII

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Sout

FAVORITE MULTI-PLAYER CO-ROM MOW! IT'S THAT EASY! RELP ACRIEVE WHAT MILLIONS OF OTHERS HAVE FAILED TO ACHIEVE TO CREATE A WORLD WITHOUT WAR! HEAT IS THE ANSWER!

taking my People my Peoplian Complete a Internet with the HICK di Plasse sand me re woman and children, and tranks on that sod of thing. No, thenks.

STOP REAL-LIFE VIOLENCE COPY THIS FLYER AND SPREAD THE WORDS

L_____ OR CLP AND SOME TO THE CHRONOMERSON METETYTE HERM INTREST, BASTE MET MAN Render Service 8: 322

🚍 Coppers in Choppers 🔏

by Robert Coffey

ans of airborne shooters have had little to cheer about since the release of Descent 2.7th Levels anime flavored chooses blastfest

HELICOPS sims to ffl that airborne void with its console-style gameplay. With an entertaining mix of missions that is far better than the thuidingly-repetitive HELLIENDIN, HELICOPS just might satafy that 3D air-combat jones until something better comes along

HeltCOPS is an elite unit of crimefighters buttling the evil enime syndicate Price: \$39.99 Nemesys across the city of Neo-Tokyo. Minimum System There are five relets from which to Requirements: Pontium 100. RMR RAM, Windows 95. choose. Though the manual says they fly Multiplayer Support: differently from each other they really Modern (2 plevers). don't However the five assault heli-

LAN (2-8 players) copters do hundle a little differently from Publisher: 7th Level heltecoter to believater. (800) 884-8863 warw.7thlevel.com Twenty-three musions are broken un murgood 3D world, mission objectives toto six mini-conspaints, and you'll have

IG GALLERY HILLCOPS offers plenty of fan action. It's not too difficult, ech, and doesn't have much depth. to complete all six campaigns as one pilot to fireh the same. It would have been

intensime to allow the team to truly onerate as a unit, picking pilots whose skills best suited certain comparens Mission sancty is Hit ICOPS' strongest feature. Played in a testureinclude rescue operations and timed

efforts to thwart escapes that take piace in a variety of locales. A slow of inventive power-ups adds to the novelty. Unfortunately, for experienced gamers, HittiCOPS isn't too challenging (some levels can be finished in under a minute). Controls that hamper manners verability and a lack of an incremental sax feature keen Hit ICOPS from being a real winner Still, if you're looking. for some old-feel tioned, atthorne for-

Hrs (COPS may well fit the bill & PAPPEAL: Action fans who want quick and simple shooting fun. PROS: The name is fun and locks good. HOOMS: To short; poor save feature; net too challenging.

REVIEW • CYBERDOME



Cvberdoze

by Robert Coffey

s a technical showcase Cyresucous isn't too bady but as a game, it comes up well short. You play in yet another victual-reality game would In this case if the CaberDome-a big, golden whiffle ball stocked with encmiss When using a 3D accelerator,

CITE/RDCIVE sports smooth framerates, pleasant viscols; and mildly couring Expetitive combat Still. three's a litary of problems For starters, the game is short

Even the documentation acknowledges that a good player will complete all 64 levels in an hour. Perhaps in order to pad playing time, CHEROCKS has no save feature, forcing gamen who die on level 63 to start over from the beginning Controls are sluggish, as is movement, especially compared to the lightning



B OF DEFEAT TO DRY OVER-DOW: YOU'IL need to either have a manster machine or play with these lousy prachics.

speed your fors possess And, the laser doesn't track your prey - this is particularly amoving since it doesn't fire from the same part of the screen consistently, thus making targeting a matter of dumb lack. The biggest knock against Cyte-to-DOME is its steep system overhead.

ing frame-rate. Even with the accelerator, you're not assured smooth play, since CATERDONE'S READ ME practically boosts that it crashes most non-3Dfx cards With little gamepley appeal and its greedy resource-pobleting, Cyntrapone. ultimately so't worth the trouble % PAPPEAL: Somers who need to

Without a 3D card, you'll have to use the

graphic options in order to avoid a statter-

configuration office to shot down most

justify the existence of their 3Dfx card. PROS: Takes

advantage of the 30te chipset. much of a manu too short; slug



Price: \$29.95 Minimum System Requirements: Pentium 100. 12MS RAM, Windows 95 Multiplayer Support: None. Publisher: Microleague Multimeda, Inc. (717) 334-2722 www.mml.com Reader Service #: 324



YOUR MIDDLE FINGER

HAS BEEN YOUR

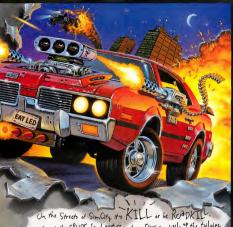
ONLY WEAPON

FOR TOO LONG









On the Streets of SimCity, it's KILL or be ROADKIL.

So forget the CRUDE land getture at try a Flamina missile of the tailpire.
Drive one of 5 MIN ladded Death machine, Harl Stroke screens from a MUSCIS car. Toast your enemies with machine you halars from a LETHAL breat trulk And Arm COPPOSING road warriors into SCRAP METAL in every aft, securitie—even imPorted SimCitten Or give them a crash course in Head-on network that. Because on the STREETS of SimCity, voice soft to DRIVE to SURVIVE.

Monster Truck Mayhem

Test Drive: OFF-ROAD Has Three Flat Tires

by Gordon Goble

ave you ever slapped your joystiek from the desk, jumped up, and stomped the freeling thing back down to its base elements, all the while shricking profanity-laden expletives? Well neither leve I but Accordade's Text Durve-Ove Brown out one awfully close a counte of times.

THE BUMPY ROAD AHEAD

According to the causel marketing. Test Duye offers now-to-life device mechanics," and "12 tracks to test your off-road skills "Yeah, the reme does have 12 tracks, but it docum't feature anything better then the loop, but it's of bust so connecture true-to-life mechanics, not does it test your off-mad slaffs as much an damed areade that manages are lost foryour ability to fleet a fore-off penchana eyer in a berno-'n'-nun more through a pinhall-Hic environment that has you relocand the more than driving Levine control of my vehicle at a little over 15 mph is not my idea of for

Add to that the areade menus staple of computer-driven opponents whose extra bildes fluctuate in secondance with your position, and the whole exercise gets too fourtrating, is there anything weese then device the perfect kap, only to find that the same gans who slowed to a crawl after your lost crash are now hot on your tail?

In theory, Test Daws affords you the apportunity to dove one of four production 4v4s (Ieen Wrangler, Chevrolet K-1500 track. Land Rover Defender 90. and Elummer) through a variety of conditions and environments, each of which is anything but ordinary. The 12 trucks include forest, desert, and snow terrains sex become available only after you've throshed the competition in a given racright, you'll get vehicles too. But for all the supposed son-

ance in vehicles and tracks, and the mony devine options and user preferences, very little vanety is actually reflected on the track

Sare, henkin' CHEAP JEEP You can mon four sports utility vehicles, including through snow is this Jeep, but there isn't much difference between from Sure, different than drione might comer a little better, but they're practically the some. vice in the desert. and the Hantmer handles muratually

DRIVING'S UPS AND DOWNS

Tota credit, Text Duve a packed with smenifies There are mue driving pempertives from which to choose, a full replay at the end of each contest, and a faith home. world on either side of the track. You can take shortents over hills and dakes or perlups through some nicely-rendered trees

(you can also get lost) Toucks will slow down when but and perhaps be span around or tossed upside down after a lean more had, but any manirelly righted a few seconds later. Sadly your which will not show damage, and therefore there iver such thing as a repoir shop for an upgrade shop, for that matter). At least the music, a muchlwpcd soughest from industrial rockers Cravity Kills, sounds good

Three display options (VGA- and

enound of 'ModeX') and a top of detail.

SVGA graphics, and the odd middle

levels assure that most Pentrum-class machines will run the thing, and this is one same where VCA doesn't mean Very Crainy Assertage. The trucks themselves are equationing to any mode, and garphics would have to be considered

Test Dravekstrong suit But if big, loose 4x4s me your thing, cheek out Microsoft Messyren Turca: Marina as for some wild remainthents: setten that leaves this pame in its dust. Tose Durve-Ore Rosp will test your naturace, but little else S.

PAPPEAL: Off-read arcade fars who don't have time for deep racers that require skill PROS: Loads of options: slicklookin' trucks: impressive VGA-

graphics made: soundtrack is pretty cool

All drivers that



Price: \$49.95 Minimum System Reculrements: Ponttum 90, 16MB BAM, SOMB hard drive space, 2X CD-ROM drive, supports all mojor sound cards Multiplayer Support: Modem, serial cable (1-2 players), LAN (1-4 players). Designers: Eite Publisher: Accolade San Jose, CA

(800) 245-7744

www.pocelade.com Reader Service #: 325

ing series. If you really play your cards cgw

JULY 1997





Actioni Humori Atmosherel Blood does it all with a heavy dose of horrorl -PC Gerner

ななななな

-PC Gerrina Review

Excellent level design, brilliant weapons... an excellent addition to the shooting genre

it doesn't get any better than this.... Eye Poppin' Demo Award













full-blooded version

MORE BLOODY FEATURES

34 deep red levels

8 dedicated multiplayer bloodbath levels optimized for KALI, featuring team-play and all new humiliation.

12 sick, sick weapons

17 ugly-ass enemies

map editor









Idiot Savant

XS Offers Tough Opponents, but Few Graphic Graces

by Peter Olafson

Lis a scalization that all 3D-action gamers reach sconer or later The combined intelligence of their computer-controlled encuries couldn't light a caudle. If you want

with subots arranged in actionoriented pauzles, you play solo. If you want real combat with onemies who use smart like a fox, you play with real human opponents. So, the foundation upon which SCIs. XS is built - a multiplayer-like game that

doesn't require other players -- is inviting The same has a series of 20 deathmatches with computer opponents who behave more blie humans than drones There built a better action-game Al cur-

sently on the table. But that's one of the game's few avec to, and design limitations exieldy outweigh this one advantage.

NOT ENOUGH You're dropped into a multi-level

arena along with three other contestants and a range of mild-mannered bots. Be the last one standing and you'll move to the next areas, along with whatever new weapons (sanging from hand blasters to emon eleccing cups bows) you've hervested from the dead

The awoos are bland. They're ocurate 3D constructs but the textores are rather Doostlike the dimensions are modest.

IT AS SMART AS YOU LOOK Though smart, XS's ene-

mies lack strewtness in issues like positioning and distance. www.ctinteractive.com



YOU GON'T LOOK HUMAN XS offers deathmatch-style gameplay without other elevers. The Al is good, but the rest of the game is lacking.

and the designs are naggingly similar. These and water law, or trote wasterno unique level features and no tools to build votrown levels. Plus, at first, the shields that suppored enemy facures make there off look the same to the untrained eve-

MENSA FRAGGERS But, they're warrangeter than the aver-

are NPC. They seek you out. They work until you and an economent have worn each other down, and then woop in for the buzzerd kill. They pop out of cover, let loose a few mench, and then pop back in. They use maket kurnahers to target you through the nemowest.

> They retrieve the leftovers of destroyed bots and fallen rivols And, occasionally, they run for their lives. The illusion of a multipleaser game was persussive encuels that every now and then I forest that I discurred a fosse other people-and

windows of apportunity

Picking up an enemyl weapon temporunly looks out the ability to turn. Also, the program seems stable, but enshed on occasion - once while leading the postare no security eafter i'd cracked an expecally difficult level. Plus the built in oppopent tracker takes much of the mestery out of the same, and should have been made a time-housed power-up.

That's not to say XS doesn't have surething to offer You can put your chaucter on auto-crient with a key-press. You can drap up to four comeras to monitor your

reals or you can deterate those same carners like bombs. And, you are only woon completion of a level -- something fel file to see more of in this sense. But I'd rather play a some without much of an Al then an Al without much of a

some Suffer that build we have been \$ PAPPEAL: Action gamers who want to play deathmatches but can't round up the tive bodies.

PROS: Sent of the best At of any action came HOOMS: The rest of the con

that's an achievement. from levels to enemies, is sut Unfortunately, AS has a few initiating ticks

Price: \$44.95 Minimum System Requirements: Pantium 100, \$MB RAM (16MB recommended), 21M8 hand drive space, 2x CD-ROM drive (4x reccmmenced), 256-color VGA-graphics display

mended), supports Sound Blaster-compatible sound cards. Multiplayer Support: Designer: SCI Publisher: GT Interactive New York, NY AND RIDGES Reader Service #: 326

(PCI video card recom-

EXTREME 55AULT

BLOWS THE COMPETITION AWAY WITH FURIOUS ACTION & STUNNING 3-D GRAPHICS!

type of gameplay that gets your heart racing, your hands sweating thanks to Blue Byte Software, (makers of such classic games as Archimedens Dynasty and The Settlers II Gold Edition). That's all about to change...

Extreme Assault proves that, after producing award winning titles in the Strategy, RPG and Adventure genres, Blue Byte also knows how to cut the mustard when it comes to areadestyled, fast-paced intense action games.

Set in a futuristic theater of war. Extreme Assault guides the player through six totally different operation zones, each sub-divided into multiple missions requiring the completion of a variety of exciting tasks. Objectives range from destroying all the enemy units in a given area, to rescuing hostages, defending towns, pulverizing hidden bases, and even engaging aften

At times you'll also find yourself in restricted quarters and have to transfer from your lethal Sioux AH-23 attack helicopter to the awesome T-1 battle tank. Each vehicle is heavily armed with a yest erray of weapons ranging from Laser Guns and Guided Missiles. to enormously powerful Smart Bombs and Thunderbolts. And I haven't even mentioned the graphics!



Enjoy spectacular MMX"enhanced transparent effects including heliograms, explosions and laser barriers!



Strike the enemy hard and fast with a powerful 21st century attack helicapter and state-of-the-ort battle took!



Fight many short intense missions that will keep your adrenatine pumping for hours on end!

All of the action is viewed in spectacular 3D, either from your virtual cockrit or from the outside of the craft, with incredibly colorful graphics and superb special effects. Extreme Assault runs on a 3D engine so advanced that you can prior this finely detailed world without an accelerator card. The realistic sound effects and CD audio track further enhance your immersion into this exhibitating and treacherous world created by Blue Byte.

Bottom line... Extreme Assault is THE 3D intense action game for the PC! Matt Browkton

To experience the intense action for yearself, cell (800) 933-2983 and Muntan source code # CGW797

lext Month: Exiting dutels on he Extremely Gool Sweepstelers.

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Available: Summer 1997

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Try Voodoo

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"Strap on your seatbelt, turn up the 8-track, and get ready for one helluva cool ride."

"it's a bjast"

"...everything 1-76 does, it does well."

"Interstate 76 was designed by Activision's MechWarrior 2 team and the pedigree shows." Computer Gaming World

"GET THIS GAMEIII" GameSpat Player Review

The Verdict: 1-76 is an early contender for the best game of the year."

"Interstate 76 is a rare joy - a game positively overflowing with solid ideas and great gameplay."







Built funk-tough on Windows 95

Play It Again, Jack

Berkelev Systems' Latest Romp Is a Movie Buff's Delight

by Charlotte Panther

a you think you know the fem of this earner moves, but? Frankly my comes from watchdear, you don't know jack." ing each question So says Berkeley Systems introduce itself You'll about the latest addition to be hanny to know its heladous trivia quiz samo that Ouestion Four is series, You Don't Know still The Question INCK MOVIES And while That Cases, but it you'll never be able to connow has a new vince the fast-talking inconved stecker Smart-Alec consultow host that you know look Each number a thing about the subject, take comfort in takes on a moviethe fact that you can always one a couple industry reference of your friends into believing you're the Satrizine THX. next Pauline Karl or Roger Elect Whife Hove trost games I have my

strengths and weaknesses. Entertainment questions I can answer in a heartheat, but ask me about sports or geography and I'm chicless Sound familiar? Then you're going to love JACK MOVELS. Like its predecessors, the game imfates a TV game show environment, allowing up to three people to compete on one keyboard, but this time the interface has the glow of the siber screen. The black and white screen bearing the initial questions, has the scratched-negative look of an old movie Once you pick your extraory, full color, resumes. YDKI form will need that half

DAPPEAL! Movie buffs, Jack face and anyone looking for a great party game.

PPROS: Hisricus, immerest, challeaging and still fresh; the best meticizuer friele quiz around.

Fiber Optic Field Trip tries to be ney, but ends m gameplay

actually daynes with a movie. character or more. DisorDit. m. which you must decide whether a movie starred say Audiey or Kathanna Haohum Whatshistorie, in which you must ter to guess which celebrity your knowit all best is thinking of and, finalh, lack Attack, a super-fast buzzer words based on a clae.

round that has you matching two JACK MOVIES is rife with all the sampalic wit and humor that

sed on their careers, which femia is LEAST uited to star in a film about a TV reporter stigating a nuclear accident while riding a lorcycle to California from the Dust Bowl?

GRAPES OF LAUGH Jicx Moves includes cuestions that span messagenes-throtty

Question Two whombes onto the serven. we've come to expect from the series, and letter by letter, telling us"The Question is at some points is even more risqué than Listening " Question I7 appears in the the earlier titles (during one round guise of an NC-17 rating warning, and Outsiton IZ asks. 'Did someone order a Question 20 looks associously like a cergiant 12-neh sausage" Azipper is tan film stodio's loso unsupped and a female voice staps. "Oh

MAKING MOVIES The questions include a good mix of

oldes, classics, contemporars, cult, and GenX-type movies, all presented in the highly arrasing and familiar JACK fashion Along with multiple choice questions, all the old favorites are there. Souldide Restroom, or the Galberish Question, where a scentingly nonscrisical scattened

Tino, when our best makes a mock-tele-

asked to suggest a trivia question. While

of answering exestions. Noretheless, this

minor irritation is a small price to pey for

this otherwise terrific game &

Question is Listening **QUIND CHECK J**ick Moves spares no one from

ms(1). The only time the humor became tiresome was during a Fiber Optic Field. phone call to an incaginary viewer who is this was amazing for awhile, I soon found meself worting to get back to the business

Price: 529.99 Minimum System Requirements: 485/33 Windows 3.1 or Win 95.16MB RAM. 19MB hant dask seage 640x490 (256 colors) graphics, 2X CD ROM Drive Sound Blaster 16 or compatible sound card Multiplayer support Designer: Jelystsion Publisher: Berkeley Reckelov CA

(510) 540-5535 www.berksys.com Reader Service #: 327



Dueling da Vinci

by Charles Ardai

iet can vou do to

justify a computer rention of the lasic bondsyme Othello? A decade aso. Artwork tried adding octures of neked women in CENTERFOLD SOUVES. This official Hashro adaptation of Othelio is hardly less outrapeous, featuring the pincos of the intellectual set,

Leonardo da Vinci and

Albert Einstein



LISA POKER-FACE Oddly erough. Leonardo. teles for a better computer opponent in Otherap han does Eristein.

Price: \$29.95 (street) Required: 486-33, 8M6 RAM, Windows 95 CO-POM. Multiplay: hotseet (2 players) Publisher: Hasbro Interactive Beverly, Massachusetts (506) 921-3700 www.hashro.com Reader Service 8: 328

WHAT, NO SHAKESPEARE?

Leonardo, spesiong in a Chico Macs necent and daubing at a canvas as you walk in, mildly chicles you during the game, as an old Italian relative would do Einstein is a more modest caricuture

with his Vennese accent, and his horris actually tidier than in some photos of the real Erustein, Perversely, Lfind Einstein an enser opponent to heat You can also play OTHITAG against a

uv this who cre are so conventional (invisible) computer apponent, or against another human You can



But what people will remember are Al and Leo. The idea is nearly as clever as it is silly but as with the nuclic version of 1987, the appeal quickly wears thin. Either you'll enjoy O'll ELLO for its own sake or you won't & PAPPEAL: For these who need als tures with their Onesco

play with or without computer hints As

usual for a Hasbro adaptation, there are

lots of features -- most of them appeal-

ing, all of them well executed

PROS: Good comp



his is the 125th Anniversary of Arbor Day, the tree planters' holiday. This year The National Arbor Day Foundation asks you to plant Trees for America, and provide for their care.

Trees Make a World of Difference. Thanks to trees we enjoy shadier streets, greener city parks, and friendlier neighborhoods. Trees also produce oxygen, absorb carbon dioxide, and help keep the atmosphere in balance.

This year, plant Trees for America. For your free brochure, write: Trees for America, The National Arbor Day Foundation, Nebraska City, NE 68410





Arbor Day Foundation

You've faced off against the legends in PGA Tour"...



Teed-off on the toughest courses with Links LS ...

But you haven't played in a real championship until...

Only British Open Championship Golf⁵⁴ puts you right in the middle of the action in golf's greatest championship. Compete as one of eight featured pros against a full field of ton professionals. Cet arisine from the first-ever fully interactive caddle. See and hear the crowd react to your every shot. Get play-by-play announcing from ABC's" Jim McKay Rattle Scotland's infamous weather on photorealistic 3D simulations of two of the world's most

challenging courses -The Old Course at St Andrews and Royal Troon. Any way you slice it (or hook it), no other game gives you the sheer adrenatine rush of real championship play like British









Market Madness

NCAA FINAL FOUR 97 Is Really Junior Pro League

by Terry Coleman

hile NBA Lave is the current computer spects chamo thaving won two consecutive CCW Premier

awards) it still doesn't satisfy all our boogs conings. Every spang, our thoughts still turn to dream matchage of Kentucky thoroughbach raining three-permens verses the patience of Princeton's 50s-style motion afferse We want to move freshmen point guards with full-court presses, run the classe UCLA high-post offense, and even-Michael Jordan, avert your eyes now-

Enter Mindsonne, who has licensed 64 teams, exactly exceeds to let you wolse the NCAA baskethall tournament While NCAA BASSETBULL FROM FOUR 97 is better than some other collear home sumes on the PC. it isn't

olay zone defenses.

March Madness, either, Anyone who has obseed action-onented besketball games will have no trouble pettine into Fixa. Foxu. 97. Best entowed with a game odd, play is the customary pass, shoot, or turbo. Mindscape pets brownie polots for giving us a steal button, unfile the PC version of NBA Lave 97. But the displays are oddly onsanteed Why must you constantly

ellek to the next screen to see one The low-res graphics are out of

date even the first NBA LASlooked better Ifs obvious that FINAL FORTS 97 was developed for the PlayStation, and considering that the same carine doesn't may out the potential of a PSX, PC owners aren't going to be impressed playing this on, say, their brand new Protoura 166 MAOX



WHERE'S GALE BROWN WHEN YOU NEED HIM? The above to call plays on the fly isn't as much fun as it could be, since you can't play matchus zones and other notable college defensive styles.

SELECTION COMMITTEE

The confusion continues beyond the garphas. For example, even considering that they can't use individual player. names, the team fincups samply don't fibe with the actual season. Half the teams seem taken from the '96 linears. and half from N7. It's hard to nin down since the stats for each player fail to list closustatus. Worse, how can you be expected to duplicate Denny Crum's feat of taking four teams to the Final Four in seven years if you can't record your own places from the oven rank? CTFa recruition model in NCAA BASSECTEM L isn't the best, but it's worlds better than the large sesson-to-season

play in FINAL FOUR 97. Not that it makes that much difference how you do in the regular season. Since there are only 64 teams beened.

POLYGONAL SLAMS The player motion for Fevr. Four 97 is farly smooth, but the graphics would have looked dated in NBA Live 95.

every one of them. males the NCAA Cuess it wasn't worth licensing the Coopin States and Tennessee-Chattamouses of

the world On-court gameplay in that not uninspired Like most action-oriented sports games. FINA FOUR 97 kg

there are way too murry blocked shots and too few changing fauls and traveling calls -especially considering how much closer refs call these in college than in the pros-But the big thing missing here is the flayer of college hoors. Where is the boxand one the triangle and two the Terrole matches zone? Why do players, expectally freshmen, not improve as the season proeresses? Why is these no home court adventage for teams in legendary stadiunw2 Without such touches, FINAL FOUR 97 becomes a junter pro league, a slower. less attractive alternative to NBA Lav. Until they develop their own identity. Mindscape's sports folks will be sidelined If you cave college booms pick up Hoffner's COURSESIDE BASSETBALL for

slanted towards offerse, but at least the

players do mass shots occasionally. But,

stat play or CTEx NCAA CHAMPIONSHIP BASSETBALL for action & NAPPEAL: For dedicated broom

PROS: Easy learning curve; decent, if generic, hoops feel;







Developer: High Voltage Publisher: Mindscape (80%) 234-3088 www.mindscape games.com Reader Service #: 329

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Requirements: P75.

BMB RAM (16MB rec-

ommandeth, 2MB hard

outble SVGA probles.

compathie sound, sup-

mended). Windows-

ports mouse and all major gamepads

Multiplayer Support:

1-4 (daisy-chained

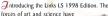
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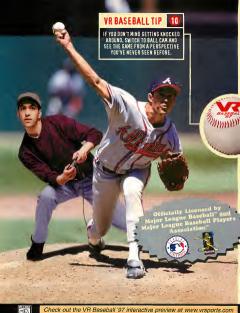


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- Opacies stats, rasters (including new All-Star rasters), unitarm styles, laga and inter-league play far '97.
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OR A BAD THING?

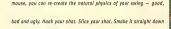


game. Yau exalt when yau knack

TrueSwing realizates of year swing right down to pitches and

your eight iron stiff, then blubber like a baby when you three-putt the hale. Ah,

the beauty of TrueSwina™ by Frant Page Sports®. With the handy assistance of your





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the fairway. It's all about concentration.



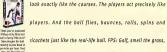
the Pete Dye Galf Club in West Virginia, and amidst the

Alang the way you'll tee up at The Prince Course in Kauai, Hawaii,

natural splendar of Northern Idaha on the course at Coeur d'Alene. FRONT PAGE SPORTS

Bring your golf glave, your favorite hat, any good luck charms you wish to carry an

vaur person, and we'll supply the rest. Here, it is all about the finer paints. The caurses



Mag, the fire Unit and

hear the sprinklers, crush the ball. S I





Aaron Ruth

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Caught in the Ne

Welcome to Usenet, Where Sports Gamers Gather to Chat-and Flame One Another



I'm a daily visitor to the compass flam pe axmes aparts newseroup, where opinions from the mandane to the outragoous compete for handwidth with flame wars, net spam, and patricht slander Many legitimate games wade through this poise every day, too, to offer their viewpoints on sports earnes, new and old. The group is a great resource for tech support, add-ors, finding opponents, and spoets saming chatter.

MR. WILLIAMS WILL SEE YOU NOW

What's most cool, however, is that many game inclustry and media types routirely read the newsproups, and can occastorolly be gooded into responding. EA and Accolate are among the major players that deep in orathe sports aroun from time to time. During last summer's FPS. BASEBALL 96 debacks. Sienus benef honcho Ken Williams spent some availty time slumming in company fam pergames sports, where he dodeed virtual bricks and mended fences with his gaming public.

In real life, you'd never set past Ken Williams' merotiones's merotiones. Yet here he is online, tending posts with speets agmensific you and me. I then decided two thines BASEAUL 96 dill nacks but Ken Williams is a very smart man,

Sure. Usenet is a great regulator and a textbook example of free speech, but emotions tend to run high, and things can turn ugly fast. Last fall, when Microsoft's FULL COURT PRESS was newly released. games were both deloting its maits online. One of the lead programmers sent a private email to a may who had posted some questions This incredibly lame individual then posted the email, which was mildly critical of Microsoft, back on



FOOL'S GOLD No. this is not a shot from "FPS: Foxual. Go.c." because that game doesn't exist, despite what some rut masquesicien as Decois McCaulov said online.

Among the grades, of course were the same Microsoft execusable some naving the programmer, and for whom, we can only assume, he hoped to toil in the fature. Not supposingly, the suits at MS HO polled the plue on newscroup dislocur concerning First Course Perso should show after and

it han't been seen much since. **DENNIS THE MENACE?** My own descent into Newsmous Hell

began eather this year with a phone call from a noewelly friendly PR, rep at Sierra. In a tone of bardy controlled oneer, she asked where 18 cotten the information about a "Cold Edition" of EPS

FOOTBALL Pro that I'd posted on Lisenet. The offending post claimed that Sterr was ditchine the product, and would release an entirely new game in February. Of course, this was preposterous -- how could a major same be welone from scratch in a month's time? But when posted under the name of GGWs sports

columnist? Voilat Instant cordfality. After reading the phony message. I quickly posted a counter to the house But readers were now confronted with two only areal CCW

Denna McCauleys, I wondered if the group might start properties. me with questions that writer would know-things like. "How's the pas?" (low) and "What does Terry Colemon call everyone? (Dude) Leventually convinced the sports earning public that they'd been had. There was no FPS FOOTBUIL

GOLD," It is, I learned.

case to fodes your pame and excell address to appear as anything you want in the header of a post. I filed a protest with security at Netcom, but I never heard back from them. They did send a form letter saving that, due to overwhelming volume, they might not respond, so I mess in their mind that makes it olone But. when not proposations on the line. Ed Har-

the courtesy of a reply In any event, company liming names. sports is a must for serious sports gamers It's a great place to cut loose about games. meet fellow sports engies, and maybe even go mano a mano with the game designers. Be there, but beware, too %

JULY 1997

life, you'd never get past Ken Williams' receptionist's receptionist.



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places. But you should nover count SSI out until the final bell. UNCLE ALBERT/ADMIRAL HALSEY Trying to capture both the mantime and lead based flower of the Parific conflet in WWII stretches the old Povorio CENERAL eneme to the limit. As with PONZER GENERAL every time fun and

team has put in a lot of work to give the game plenty of historical feel. Amone who (like me) complained that the Bowster Buffalos in the Wishinstonnes-



(both new to the PG series). A Japanese "pilitox but" provides scale powerful, will be basen to know that they may come noughly based on their histori-

have been toned down to move historical cal especity Within those hearts, you limits here -- lest they take out too meny struct corry not only fighter excepts, but Continued on an 221 ****

The naval rules have exclusi as well. They make a let more sense here then they did in Pozza CENERAL. You can still perform shore

FACIFIC Servel. attack" fest GENERAL is a shot but the deenfloors. welcome er operations add return to the enough new series' roots. wrinkles to mole this and a wonmuch more then a PC dene Carriers are hoded in

GENERAL II. how more oir writs they

derful bridge

The Next Sid Meier?

Polish your mask and get that cape out of mothballs. Agents or Justice is finally emerging from the evil clutches of that dreaded villain, Vaporware. The tactical combat is much more refined than before. with a better balance between physical attacks and those superhero-specific talents such as energy blasts. The strategic game has added depth, too. featuring Minia death squads, evil cyborgs, and the expected group of megalomaniacs, all obsessed with taking over the world. We'll employ our X-ray vision to give you a sneak peek next month. Speaking of secret identities, Similex is no more. Actually, they are now known as MicroProse Austin. This coincides with the promotion of Steve Barcia (founder of Similer) to executive director for all MicroProse game products. Having a "real game guy" in charge of game development bodes well for future MigroProse products.



Space Marines Want You! Finally Games Workshors' Space Marines comes to the computer! Enc WARHAMMER 40,000: RECEIVEDON will be published by SSI, tentatively scheduled for early next year. One of our inside sources described the game as "Warhammer Ithe miniatures namel meets Stree Paymers," a masonable description, since at least one senior staffer at Games Workshop is a closer Steel Paythens freak.

This game is SUPER. If you want to sleep, don't play Baseball Mogul. You won't be able to stop." - Pierre Dumont, player

s extremely difficult to stop laying. You feel like you're behind the GM's desk, making calls, barking out orders, and then watching the results. The still photos for news events and city shots were well done and added to the richness of an all-around high-quality sports strategy game." - The Ultimate Video Game Reviews

Artificially intelligent GMs offer you tracks, and even trade with each other! More than 1200 players each with over 500 stats Decaded News Storles Blockfuster trades per ect games, inturies, MVPs "Like all our favorites, Baseball

Mogul looks like it will find a home among the true gamers." - Sidelines Magazine

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CIRCLE READER SERVICE #241

TERRY COLEMAN

The Real Sid Sid Meler's next game, released by Firaxis through Electronic Arts, will be his first real-time strategy game since Pieures! While we are

doing for a

They Really Do Have Tone One real-time strategy game that marches to a different drummer is True Reserving from The Lonic Factory. It has the stunning graphics you'd expect from the

honor-bound not to tell you the subject matter just yet, here's a hint: It's a game that Sid's tunds bester long, long time. We'll have the world exclusive scoop on it for you read

month-stay tuned.

Steal Of The Month MicroProse has had its ups and downs financially the past three years, but it's also produced some of the greatest strategy games in the history of the industry. CONQUER THE UNIVERSE IS A stunning compitation, a curney back to a time not so long ago, when games were more about addictive



Zarathustra and avant-garde jazz. But it's the gameplay that really caught my eye. Bather than the excessive turbo speed favored by the dick-and-no growd. Tons RESELLION actually gives you time to think, because it focuses on the strategic picture, rather than tactical micromanagement. There is plenty of real sciencefiction flavor here, too, a refreshing change from the

in the future so that we don't have to worry about being historical" cames so common in the mat-time strategy genre. Sentient floating nods, allen artifacts, a terrible villain that would make

"Let's place this slightly

E. R. Eddison's The Worm Guroboros look like fish bartthey're all here, with more than enough to keep even casual scifr fans busy for hours. Watch for TONE RESELLION this fall. Buying A Clue

cameplay than SGVA graphics or full-motion video. CGW Half-of-Fame games X-CON: UFO DEFENSE, MASTER OF ORION, and MASTER OF Masic top the list, followed by the derivative (but still very good) X-Con: TERROR FROM THE DEEP. There are at least 1,000 hours of tense. high-powered gameplay here, and the street price of this compelling package is only \$20.

Interactive Manic, whose strategy came record has been spotty. (to be kind), seems to be moving in the right direction. In addition to THE GREAT BATTLES OF

to nublish GREAT BATTLES series games on Hannibal and Julius Caesar, Keep your eyes open for these: the boardgame series from GMT Games on which they are based continues to sell in an increasingly depressed paper game market. Also, if you haven't trished that Ph.D. in economics, Interactive Magic can offer you a crash course of sorts. In case you felt.

that the original wasn't arcane enough. Caprousal Plus offers enough supply-and-demand minutiae to satisfy Allen Greenspan himself.

1999 Continued from an 226 dive bombers and -- a first for the 5-Struc-SERIES -- torocdo bombers Thus hore carriers such as the Akass give you much more flexbilly than are the Soryu, expectally when you're deciding how many fighters to pet on CAP duty-also a first for this same engine. As your air units take losses, you often lack the prestice points to replace elite plots - exactly the

problem the Japanese High Command.

faced after the Buile of the Corol Sea.

This is a surprisingly elegant strategie

problem for such a sample same The land battles aren't neplected. either. From the jungle furtime of Singupore to the bitter struggles at the Burmese/Indian booder, Payzern CENERAL fans will find plenty of tactscal challenges to keep them busy. The Alhes begin with few quality units, but process quickly as U.S. industrial mushit awars up for war. The languese. start out on fire, but unlike the

Germons in PANZER CENTRAL they ean't crank out Panther Vs and Tager tanks on their way to victory.

Semper Fi Joe Balkoski has teamed un again with Stanley

Associates, of Wooden Sups & Jean Men time but their latest collaboration is less like their hallmark naval games and more like Balkoski's operational designs of a decade ago for West End Games, Severn Fi. to be released by Interactive Magic, is a detailed tactical look at U.S. Marines in the Korean War it will be turn-based, with an interesting morale system that offers a reasonable atternative to the totally subtractive

psychological profiles of the

original CLOSE COMENT.

Thar's Gold, Mater For something completely different, check out Bichard Carr's TREASURE ISLAND, a sort of simul-

EDITOR GENERAL The new Bastle Generator less you cenerate conflicts of your own choosing with any WWE

combatants. The roughly two dozen stand-alone

sernames include sense tantalizing "what its?" such as San Francisco, Operation Observe the planned but new reservoted assesses of mainland Jopan's and even far-off Afadasascar Ifs undoubtedly the best variety of scenarios in any PANZER CENERAL-type game. Best of all unffic STAR CENTRAL. PACIFIC CENERAL los full-fledged earnpriess, which may be played from either the Alicel or language side

"Heyry man...the City's such a downer and The Man is always getting on your case we've been picketing the lumber yard because with, lumber has rights too... but the neighbors and the cops are always bringing their uptightness ground you know, so to, which, counteract the load vibes we just get out the detto blaster and soak the neighborhood in good vibe hno... all good styff man...we're like giving sypt ucitiers that are getting hassled ...anyway, come blast. ask the kids, man, they love it... HEY, IT'S YOUR CITY... DEAL WITH IT.





taneous tum-based Previes-lite. Both shareware and registered versions are available at www.carrsoft.com.

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As the sales and popularity of
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hard to know whose to begin. Now
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rai/, which features a number of
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most unusual of these is the

high-quality links. One of the most unusual of those is the Domnus Animae Web site at https://lbks.bplanet.com/ domnuss. Hitch, you'll find no units or scannists to download, but rather, a description and erride tristory behind a "new" fossion for CRC cettled the Conformate, with statistics for domny your own units. Hit a

shame that this background wasn't done with one of the many C&C hacks, but those are readily available on the Net.

Troubles & Triumes
White we weren't enamored of
Amanus See Bornes (see the
review in this issue). Meridian
95's next game looks promising.
Amanus Accourt Serie is a turnary
game that less you cam both
triremes and monsters of ancient
myth, with multiplayer support of
as many as 16 foruma admirals.

as many as 16 human Check out the demo at





OROSS-POLLINATION Pront Gerelou's unit mix is derfully varied, from Seatness to Japanese Bloyde Infantry.

PACHIC GENERAL is a welcome return to the series roots, and a wonderful bridge to Poezas General. It can't imagine a better way for the original Poezas GENERAL engine to "go down flighting" than this, a wenderful spering partner for any gamer with even the slightest interest in the subject matter.

MODEN WARS

In a mose that will theff fine of the series, Piccine Construs, has bather multiphyer support for modern and network pile, Soc can set true lumit per beam and have multiple pileyer per sale, such as in Piccine Construct. ONSER: If that it is recough to keep you busy, use the obset Buttle Construct for certain Construct, U.S. vs. Common in the Middle East, or even Cormon vs. Lymones with processes after the filed of Russia.

The execution officie lets you control covershing from visity conditions to scheduled times for postage dumps, and is authly that will doubtless keep this game above on the Norfe of a long Gians. I should also mention the nice Thomsey Durseys High pend soundtrack, the improved graphics, the cowhaph soore spictrum and unit glosssary, and the traphyl. Whatever caused them to starthed with STAR CINSNAR, the SSI folks have learned from their institute.



YOU THOUGHT PMS WAS A **This isometric shooter is going to blow you away...Meat Puppet takes the top-down action shooter to the next level. -- C/NET GAMECENTER COM

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- Climb your way intrough allierent levels from the streets on the way to the rop of the city.
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 - 29 dongerous criticolers, six mossive cines, and 22,000 indries of drintolion.
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STRATEGY & TIPS

Flight School

By Robin G. Kim

If the current tread toward core iscreasing entural and couplestly is takely count in the inlation. It is as suprise that many recoveres to the gene of up or just made. Little man recosor who call that tends you are not includy on who call that the general production and artifaction televology curve approach, agained and force of the general and at once, must by mading tool angle gene mental.

If this 'win (or with' 'accessed sounds all too familiar to you, then read on, but the yount series, we will cover the fundamentals every sim prior should know, plus some besix principles of are consists to July you servine your fast few series. This installment focuses marriey on WVIII-on prop plant into. Not mercall will debe into the tractices of completations unsupe to the highsector sould not make the debt or consists.

Takeoffs and Landings

Cetting up into the nir init difficult in most sine. Just accelerate up to speed, then goully pull back on the stick until you are authorize. If the flight model is accurate enough, you will probably need some right model of thoughout this mocoss to stay pointed in the right.



direction (see "TORQUE EFFECTS" sickbar) For till-dangen pinner that lean back on a till-wheel when at not — it is important to the fire tab by pushing forward on the sicks on an after you safe to rell. This not only improves neceleration on the ground, but lowering the nose lets you see where the lock yorke group! What goes up must come down, the trick's to legel it down in one

piece. This requires you to Juggle arrapseed, descent state, line-up the carding and alignment with the remove), and obtained much prevenent simultaneously. While this care be downing at fant, employing the following techniques will help you to admire all occurred a post with the runney from a pool obtained or so you will three one less thing to worsy about here. Second, maintain accountant mapped down group of the above landing speed down given a

approach by advantage to accoming nature and appropriate property of the appropriate product and the extraction of proceedings of some described that interesting one of the approach as the large part and to That Approx and the the part and the three armony as described by your place's round, and what the terminary as described by part place's round, and what the terminary as described by part place's round, and what the terminary as described by the approximation of the part and a second the part and approximation of the part and approximation and approx

If you have done everything right, all that is left once you cross the narrowy threshold is to ease off the thootte and dowly flare (patch back) until the wheels loss the ground Practice these techniques and you will won be greating those landings that a pro-



CRASH AND BURN The Surgeon General has determined that not reading this and de may be incombus to a flight simmer's health.

Angle of Attack

ne of the most misunderstood aerodynamic concepts among source sim pizes, angle of attack (AOA) is an important determinant of an aircraft is turning performance. AOA is the vertical angle between the direction an aircraft is pointing and the direction it is moving; it has nothing to do with a foliance solich andow. The accompanion



diagram of an arcraft descending to land illustrates this difference. Although its nose is pointed slightly above the homzon, it is nevertheless being attribute (anyone who has weathed anthoris land at an argort will be familiar with this phenomenon). It spirits angle is about 5 degrees, but 150, is 15 degrees. If you catalof the picture a quarter-turn disclawas, the plant's pitch langle would become 66 degrees, but 15 ADA would still be 5 degrees.

In normal flight, the pilot can increase AOA slimply by pulling back on the stick. The lift an aircraft's wings generate, which can be used for turning as well as just staying up in the air, is

couply proportional to AGA et al open almosed. That is why pure hidd the dist-bits to make light Blaces. The guester the AGA, the more its produced—to a point Going beyond the prince, increases in AGA entire. In large velocities in the and a bootfoad of ring! This is what if more for an increase to sail. The second of ring! This is what if more for an increase to sail. AGA the second of rings and the second of rings are all the increases. The second of rings are within the second of rings and velocities with a which can be added and velocities. The way to which can be added and velocities the second of a stell without selection greater than the second of the edge of a stell without selection greater. The second of the second of a stell without selection greater than the second of the second of a stell without selection greater. The second of the second of a stell without selection greater than the second of the second of a stell without selection greater.

Fighting Styles

Once you have invatered the rigors of souther flying, it is time to start thirting acutes. Though the number of possible air-to-sic combat alyse a peacetarly infinite, it is useful to divide them use to three solic categories angles theties, energy tactics, and "boom & acom". Which is must appropriate depends on the planey you are flying, your own predefences, and the consumerses.

Angle states, the most inside will define, for the seat groups the mint a paties of team by again the equal to Mint a groups the group that the seat paties of the paties

With those is some overlap between energy and angles tactics, "boom & acom" is a whole different ballgame, basead of fighting it out at close quarters, a boom & acomer will typically necks a diving fine rose the "boom" from a large meny advantage and then, if the target was not destroyed, climb (the "zoom") so far away that the bandit connot retalate. This series of slashing attacks and climbing discingagements is repeated until the bandit is killed, the attacker goes up and

THIS MONTH:

Interstate '76 Step-by-Step Hints for the Hardest Scenariost



252 Discworld II

256 Manic the Gathering

280 CG Tips!

AV About Color Strategy

The Hottest Tips for the Hottest Games!

YOU WILL BATTLE
HEAD-TO-HEAD AGAINST
AN ENEMY MORE RUTHLESS THAN

JABBA THE HUTT

AND MORE SINISTER THAN

DARTH VADER.

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Floyd from Accounting.)

engine is phenomenal. The new missions are masterstrokes of space mayhem. There's even single player campaigns for an all-new explosive experience. No wonder Computer Gaming World proclaims X-Wing vs. TIE Fighter "number one on every space simer's wish list." And if you don't believe them, just ask Floyd. http://www.lucasartis.com





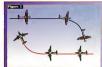






effective opening moves is the "lead turn." A lead turn is simply a turn started before you pass your opponent. Figure I shows an offset headon pass where both pilots turn toward each other as they go by. Since they both do the same thing, neither gains any edge over the other Now look at Figure 2, in which the fighter on top begins a lead tren before the other arcraft passes. By the time the second fishter begins to term. It is already at a considerable dissolventage. The principal components of a successful lead tom are timing and flight path separation (the lateral offset between the two planes' flight paths, also known as "turning room"). If you turn too late, you won't gain enough anales to make much difference. If you turn too early your opponent can slip in behind you. Flight path separation is not strictly necessary for a lead turn to be useful, but does allow you to turn in sooner and potentially early a exester angular advantage

GAMER'S EDGE







Climbing Lead Loop

files off, or the energy difference between the two planes shruks coough that the attacker can no longer zoom away with impunity Boom & zoom tactics only apply when you hold all the cards. If a

Lead Turns

doglight between evenly matched opponents begins with a head-on pass, angles or energy tactics must come into play, and the eventual outcome is often decided in the fast few seconds. The basis for most

Even the most basic lead turn described above can prove devastat-Unfortunately, it is pretty easy to counter, Just steer toward the bandit

and minimuze flight path separation. That will render any lead turn the bandit performs much less effective, but not totally worthless. One way to discourage this countermove is to do your lead turn straight up as shown in Figure 3. It works similarly to a level lead turn except that if the bandit wants to take away your flight path separation, he must commit to a steep dive (not shown), necessitating a lengthy, energy-consuming recovery afterwards

the audinst someone who has never seen it used before

Corner Speed

The most common mistake beginning sim pilots make is to hold the stock all the way back during a doefight in a your etternot to maintain a tight turn indefinitely-it just doesn't work that way. No fighter has so much power that it can sostain a maximum rate level tern without losing piespeed, and if airspeed decays too much, so does turn rate. Excessive speed will also impere a plane's turning ability. Between these two extremes is a sweet spot that optimizes tern performance at a given instant. This sweet spot is called an aireraft's "corner speed."



BUTCHER BIRD The Focke-Wolf PW190 is the epitome of a box acom fighter It's fast, durable, has excellent handling at high speeds, and can lay down a withering barrage of fire.

Torque Effects

Ingle-cripine prop plants have a strange tendency to yew to one side at high power settings, especially at low speeds. For plants whose props rotate clockwise from the prior's point of view (as most do), the effect marrieges as a lethord pull on the nose that must be counteed with noth rudder. The cause



TWO PROPS ARE BETTER THAN ONE The P-38 Lightney's twin ounter-estains propellers almost perfectly cancel out each other's torque, P-factor; and significant effects, giving the plane exceptionally stable low-speed handling.

of the incommented year is other infection to simply at incryation to it in ally must be not three sections exists engine from a probability of the counted by the prop, and something collect "P-botts". If a right in origin is splits, the proposite received in the festings commentation late, so the opposite force will not the sestings commentation late, to the left. This does not produce any year part is it, but by comments that not with some might sixth or less than the commentation of the sixth miss of with some might sixth or less the design less if, you increase the drap on the left wing restrict to the eight that

A clockwise rossing prop will onese, returnity enough, a clockwise sctaling current of air behind it. This helical slipstream will hit the vertical stabilizer on the left side (out only air very low speeds), causing the tall to make right and the noce to move left.

causing the tall to move right and the need to move left.

P-factor describes how one side of the prop disk will produce more timust then the other at mon-zero angles of attack (see the Angle of Attack sidebar). When AOA is positive, such as during balends, largings, and total turns, the noth side of the page disk is

dominant, causing the nose to guil—you gussed id—to the left.
All these effects are modeled to scene degree in most recent prop sims. Usually, some right nudder is all that is required to leap the plane in line. Revertibates, the year can actually become unmanageabil if sufficient power is applied at a low enough airspead, so it is best to anoid such conflictors.



FINAL APPROACH To avoid gotting everity fixated on any one thing as you occure in for a landing, it halps to cycle your atternon continually between your plane's airspeed, sink rate, tine-up, and gate stope.

The mexicum that a juscie way gen on produce ran employ with to exceeding injective—the latter years, the more Cayana cap and and the quider-year can turn Bretenski, the marker of Cas candida more than the state of the admirate. Beyond this year, it is not practical to take admirate of the calmin the because any additional Consolidate with weight to take admirate of the candidate of the day. The lowest year of the data on a governor to structural day. The lowest year of the data of the consolidate of the structure of the consolidate of the consolidate of the structure of the consolidate of the consolidate of the structure of structure of

A place now lover in highest instantaneous turn not apparential whom freque or course grow, but if the certain position is constantly explored, imposed well executively drawn of funders executing a drong supplier, all explored well executively drawn of funders executing a drong light, it is therefore a half data to use in the turning delity you have now exprise the following such as one participate that $\delta(t)$ and which who are the funders and the surface of the full register of the contractive to the contractive of the

Mission Debriefing

Air combat testics are an extremely complex topic. The concepts and techniques explained here basely senthel its surface, but they should give you smeedling to think about as you develop your own fighting style. (For an authoritative book-length treatment of the subject.) Highly recommend Robert Shaw's Fighter Combat. Technics and Montenerme!

Although several of the lessons covered in this article apply to jets as well as WWII prop fighters, be sure to check back in next mouth's GCW for the final part of this series, which will give details specific

to modern air combat. Until then, have fun up there! &















The Ultimate Judge of baseball pust re-entered the building shootderin' a hefty new 3-D regime. And polygon players so real you can see sevent on a platcher's temple. Plus play-by-play and oldon commentate from the two-man booth. So every gopherhall you belt will get the attention it deserves. Swing large.



GAMER'S EDGE

STRATEGY & TIPS

Interstate 76

Hot Advice for the Long and Winding Road of INTERSTATE '76

by Gordon Goble

• ompleting the IT-scene TRIP is the ultimate achievement in hyritation? To - then that proves whether you're easily cord or not. Stoce Soores 1-d are little more than extended training missions, we'll kick things off with Soore 5, and hen check out some of the more childrenging or formy that follow.

\$ 6 9 11 9 8

TO THE RESCUE

the fit in Internating dream sequence of Secret 4, the action status getting heiry. Among the unroblering words just to the right of the intersection of highways \$30 and \$7, you'll find 'Thome, stiff in this car and only shightly wounded. You've got a ton of creepens to jeld of ill stong the word, but since they're special out, by using your handpun for better solvage opportunities.

Don't sweat the multiple creepers on your way to rescue Skeeter, because with a two-minute time limit, you've got to move Get the speed up and hang a right on Off Well Road.

Speaking of oil, by plenty of it behind you and your pursuess won't be a problem. With a killer chaim off to the left and very little absolute, drive first, but take circle through any hard rights. On you's negotiating that moneter jump is at before Fisher's Field will require the individua use of oil in

Scone

HEY, I'M JUST TRYIN' TO GET SOME GAS HERE!

The the tale would (an detailed on the morp) and special up to \$5-95 map he could not the upcoming jumps. Stone it is dirk, the good idea to drive clowly through each segment to grazge the deduces: to be east same, the sam moround and come to ack if this jumps if you do make the third jump and jumps good want to the channel out of miss the third jump and jumps good want to the channel count off in the station by following the directional amove on the beniness, then cuttime through the depent.

At the station, you'll get two swarms of excepess. You'll want to kill 'em quick before they desteey the station, but you'll get some limited sasistance from Inferno, an ally with a flame thrower and somewhat shouldy marksmanshin.

Don't be afaild to chase each bad gay down. It works because they don't have much in the way of rear-mounted weapons, and because others won't take the opportunity to attack while van'te



away So, turn off your headflights (so they don't see you) and pick up your adversaries when they first hill your radar, before they swarm the station. Mike sure you use your trageting computer so you don't acceptable bit labor monated.

THE KEYSTONE BRIGADE

in Scene 7, thou's a bunch of cops on the take who are trying their best to box you in between impenetrable modifiseds, but here's a plan; jud pair the first soutflood, make a quick right on Bussibe Road and divise until you see a bown beam off to your right. Dimp a load of therropers around the perimeter of the burn, became you'll

be leading a fuzz parade back here later.

But I out on the hisbroay travel down to where you'le just in sight of



HIDE OUT in Scene 7, hide in the barn on Bayute Road. The fuzz won't see you, but you'd see them from inside the barn, and be able to shoot them from this cover.

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Race Monster Truck Madness with Laguna5D* accelerated graphics, and the action cones alive. And and the action cones alive. And by entering the Monster Truck Madness with Laguna5D* acceptation of the American Madness with Laguna5D* acceptated graphics, and the action of the American Madness with Laguna5D* acceptated graphics, and the action of the American Madness with Laguna5D* acceptated graphics, and the action of the American Madness with Laguna5D* acceptation of t



WWW.microsoft.com/games/monster

To participate, you must own one of the following products featuring Lagunat D graphics and a retail copy of Microsoft Monster Truck Madness.





you'll drive away a winner! For complete details visit:



CREATIVE

GAMER'S EDGE

ha "F" keys for alternate connectives. For example Scene 6 sees Growe hunting several knocked out bridges, and the only way you can tell if it's a bridge or ust a hill is to check your satelfile view

> Off-roading isn't as damaging or as difficult as the manual would lead you to believe, and cutting comers. where the terrain is flat is advised Look around for alternatives to site suggested routes—even Taurus can be According sometimes.



fort Smith, using the blings view to locate a tank This wew makes it easy to locate enemies and spot the terrain for briffnes and chasms.

Fig. Get yourself a multi-button stick. Lising the period and comme keys to change gears is not ten

the Burnetti recetrack. Run this mission over and over again to become a boss Piranha pilot. > Salvage bigger and better performance parts whenever you can, but let Skeeter repair anything highlighted in velow or red before you use it Because they Improve comering and road only over burnes, suspension

upgrades should be considered a priori-

ty, as should fatter tires

Scena 10 more Ann-Non missile hits before they separable. Now, lead them back ROADBLOCKS R US

down the highway, discharging the rest of your blendroppers en sonte. When you get back to the horn, drive unide it. There's enough morn to turn around inside, and since the copy can't get at you while you're in there, you can take pot shots at them as they drive by With a little luck, some will drive over those bloodsoppers you laid earlier. After awhile, the helicopter they've called in will socute and you can drive out, firesh-

ing the Job Tilding out a fourth car will persuade them to remove a Scene 3

WARFHOUSE PATROL to is one tough mission, but you should know that the deneral helicopter's going to take off no motter how fast you get there.

What you have to do is climinate the excepts before they can elielethe warehouse Kill the first car you see. He'll use his repremounted flurnethrower on the warehouse and you, if you get too close Then neil the gray Covera and don't let either get to the warehouse, which stands just south on hishway 214. The key here is to belt the rest of the exceptrs and lead them new from the wardsome.

Scene 2 CATCHING CALISTO

roedblock and let you pass.

y now you should have contract your death machine with Known off found, 4-wheel dischokes, and other near top-notch performance parts -- all of which are definite necessities for this

Calisto drives an absurdly fortified car. Don't get too close during the chase, and stay away from that gun on his right side. Try getting in front of him and dropping a bunch of bloodroppers and mines, then duck in behind, all the while throwing lots of linked machine gun or connon ordnance his way. Don't kill him; just watch until his damage bur turns red - then you've got him

ore bad eeps, more readblocks. Quickly head streight toward the assembled throng (use a nitro), then yeer shightly to the left just post the final side road. This will put you on the chill just above and to the left of the madblock. Drive jest past it and drop back down to the roadway before the height gets too severe

When approaching from the rest, the cops out up a curtously weak fight while you've able to pound them with turrets or mortars. One or two may sneak up the chiff and get close, but if you monitor the satellite view you'll know before they get these.

S o o n o 11 A BRIDGE TOO FAR

"There's no now to stop the creepers from taking out both obvious bridges, but a third awarts. You'll probably have to take a bit of a drop getting down into the chasm, but once there, drive a very lone way and you will find the last brides



Linked Machine Guns: Bar none, the best

thing you can do for your hitting power.

throughout the name

Of Sick Deposit: Often it'll simply risky the inevitable, but in missions where screaming Turrets: Will follow target even if you're facing another direction and are great for helicogers. Cherub Missille: A rare beast but stopendoubly fatal. Use from long distance only

The Bed

Cennote: They peck a punch but don't have nearly as many rounds as machine guns and feel and look a bit odd when being fired. Martars: Effective only when blassing a static target, and static targets can be hard to tind. Specials: Aside from receated nitro applicators, I didn't use a one. I mean, a oup holder?



GROOVE TO THESE MOVES MOUTAND & turret on your roof is a good kies, because it will track your targets.

The Univ

Handgun: Great for aliminating a driver while leaving his or her whide unscathed. But mastering the pistol can be quite difficult. and you can easily muddle your way through Flamethowers: Turn vitually anything into a criscov crittor, but you've got to be really close. Car-E-Raser: Does what it says, but a

brand new one has just five applications.

Just past the bridge is a relatively genthe unertade, one you can use to set up to the bridge You'll encounter lots of bigtime firepower, but it's way better to forsels: the shooting callery metine in favor of a httle nitro

Just keep following the road and you'll hit the highway where you hang a left to most up with Taurus once arufn.

Scene 12 ROSWELL WEIRDNESS

et subtlety be your master, and wait for Octoberfest to get inside the Autoworks before attempting the some thing. Take out the helicopter. the rather lame excepers that follow, and then begin shooting the buildings. The door of one of the buildings will

fall backward, which should serve as a great issue same to get you the hell out of there. Remember that there's no opportunity for salvage, and letting the "S" key starts the cor

ARE STRATEGY GAMES TOO

CIVILIZED?

Eve Be Nimble, Eve Be Quick, Or Eve Be Sliced by Gore's Big Stick.



Win 95 Demo.

Dark Rift brings out the best in people. Eve works her buit off to turn Core into a meay pin cushon. Core busis his gut to move Eve into the path of his axe. And you'll need your best, because Dark Rift gives it up. Dark Rift delivers more fight, more often with more speed than you have ever seen before. Check out Dark Riff girst a pp Birth Riff of Set or girth 95 and get the scorething projectiles, hyper quick ien hit combos, blazing frame rates and sonie very unpleasant surprises for the competition.









M 31 O N G S









GO SOUTH, YOUNG MAN

#ou should be loaded with nearly the best performance equipment by now Term right down the first road you see and use

your compass to continue south, hugging the mountries to your right. You'll drive a long way and do some off-reading as you locate the pass over the chilis

It's a bumpy ride through the first range, but once through, containe south past all the confine (which you should agmore). When you approach the next mountain range, drive straight into it until you see a pass to the left. Take it over the mountains, and the highway will lie to your right. When you get there, go north again to find Fort Smith or you'll run head first into everper central.

80000 15 A TWO-TANK GARAGE

Taurus will tell you to protect the van by going the opposite discetion and picking off croppers, but that'll only alert a flock of them to your presence, lastead, turn amond from your opering direction, travel down the good a spell, and where the good yeers right, an left. With a little searching, you will find a passage down the otherwise impossible carson wall,

Link up a couple of 7.62-mm machine gams for the upcoming pair of tanks and single excepts. Once you've taken them out, shoot



DUDES OF HAZARO in Scene 16, you should turtle over the wells of Fort Smith was a downed custed tower if you take the backroad into the fort, you'll find just two tanks and one car in your way.

down the guard tower, which then acts as a convenient ramp over the fort wall Jump it, haby

\$ c e m c 1 7 THE GRANDE FINALE

tis is a one-minute mission if perfectly performed, and you've finally got some heavy-duty transportation alternatives for your emiosive showdown with head bad dude Malochio. You need to select the groovy Armored car, and blast Antonio with a deadly

OR. PERHAPS. NOT

RISKY

ENOUGH?

Congratulations.
You Just Gave Birth to a Bouncing
Baby Norn Named Toby!

creatures



PL/V with your Norrs as they cap
to out, speak, and
interact with you
and other creatures.

ENCOURAGE ye
creatures to breed.

EXCHANGE new congrations of creatures

with other proud parents over the internet.

WebNest No

www.creatures.mindscape.c

Create Real Life on Your PC HATCHING JULY 15th







HANTA RAID Malochio drives a Marka like this labelt of green color). It's got plenty of hard points, good speed, and armor, so select the Armored car for this showdown and use a cherub missile to priorde him from atar.

cherob missile from long range - that should be enough to effectively critole him.

Linked 7 62-mm machine guns work well against the two other cars, but reserve your final pair of cherubs for that damned truck. If you want

to live to tell the tale, get him before he has the chance to take ann. So there's an everyiew of the 11 hardest scenes in INTERCENTE '76 New year'te ready to strop on your minored shades, nick not your afm.

and hop into your souped-up deathmobile for some sensus action. 5

As examplified by Spenes 6 and 8, it's always smart to

deal with crusters individually rather than en masse-they're often more interested in graning you down than accomplish-

ing their primary goal Monitor your radar constantly and respond to it early.

There are a few missions where an overwhelming number of exil-doers will force you to run rather than light, but if you

must fight, get involved quickly. Ramming a criscoer, then blasting him before he gets his

wits together is often quite effective ▶ Perfect the art of the bootles turn. Your "Z" key is the emer-

gency brake and using it while stamming the wheel to either side will immediately spin you around. Much guicker than traditional turning and a great aid for in-close doublitting.

With a pair of inked machine guns you're rarely out of amms. If you find yourself surrounded by two or three creepers, just keep that trigger finger depressed and you will get in a few unintended hits.

Creapers don't seem to see well in the dark, so keep your

ights off When Solving after sundows.

THE FINE ART OF CONQUERING THE WORLD.

COMING THIS FALL



DIROLE READER SERVICE 4235

STRATEGY & TIPS

Discworld II

Is Rincewind Running Around in Circles? Let Scorpia Set You Straight

by Scorpia

ell, sommer's bere. It's not my favorite ecason, gomes tend to be searce during the hot mentals, and the long days don't moproe. Frield temper say. These are the times I think about taking a vocation. Somewhere Anywhere, Even DESCOUGLD, Or DISCOUGLD II, which is nown more!

The first rule in this game is to grab everything you come across. Even if you're in someone's shop or home or whatever, there are usually items lying around just withing for your hot little bands. Take your time in each scene to rust the cursor all over the view. Whife no Remasure actually involble, a few are hard to see, and you could mass

them'f you're not careful.

The second rule is to tilk to everyone you meet—several times—using all the conveni-tion modes. Then survey the time is a you don't have to go through the conversations all over usuan (babb).

Act I

Olsay, so here we are in Act I, where Rincey has to pick up a bunch of things to summen Death back from wherever it is be uent to 'fis be more specific, our boy needs gifter, sticks, special caudies, mouse blood, and a vite smell.

Glitten Thris is Manilyn Mourne staff pulled off from below. A real breeze. Candless Nothing beats do-tt-yourself. You just have to get rid of the beekeeper.

Everyone wants to be in the chekies Pancey does need a bitle protection (with the dessert lady for that). And some hot flowers for went they helly?). The rest is portly obvious flust keep in mind you need two thints from the bives, sweetle.

Sticks: This is the old switcheroo trick. You need one from the shop, and two from the decks. Be stuffy, fake out the pelican. If the net gives you touchle, yout the meegac, nuck around.

Mouse Blood: You have to also your both for someone's teeth).

Mouse Blood: You have to said your beeth (or someone's teeth) into this one. Have you noticed that it's nighttime? A little com, a little boxes, and a little exificine can help if you can't do any chimbing, balk to someone about a woman. Which woman?

Vile Smell: Give this one the boot, and bottle it up. See Mis. Cake about that. When she says 'ender your thoughts' she means it, go through the talk options in the right order Then you should Fool around with a brick, careful, this is bath energy stuff.

Okay! Death is semmoned and their not interested in his old job anymore. Argy! So now you have to get lust into the movies. Act II begins, and here we go again.

organ, and receive

Act II

Boarding The Ship: Yough, Talk to people first. Then warm up to a reflection, give Panetworld a hand, and put him on too (or vice-vens).



CHICKEN FEED You'll never catch this chicken while he's sober. Try feeding him some grop-back corn to slow him down.

your pyramid was hyand bexat.

After getting on the ship, you can go supwhere; the Holywood, to find out what you need to make the chickle.

Novelton: This one is a ten of trouble. This times as much, activable.

Cct in the swing of things, though, and you should be obay:

Bend: If you need belo with this, you probably shouldn't be obyen:

Band. If you need help with this, you probably shouldn't be playing advanture games.

Jingle: Complicated, Chut with Unifust. Ask for a demo (hoop to it). Then talk to the old hemit at the wheel. Sail west and grals a couple of things. Stock up at Unicean University. And we having fus? Plan

Comena Naughty little imp! You're too bir to follow him into the scenery You need something small. Something small you can get back casily Right, matel

Babe Finally you can do something about the Suffrajester. Ya have to get her first, and that movines a stakeout. Then it's time to rock and roll (or at least rock). Now you can (so to speak) so trolling for the babe. Bribes never hart (except anaybe

trolls, behit. Elven Queen: Really complicated Before you can go horsing around,

there's a lot to be done. Pull a switcheroo at the oasis after visiting the pyramid. After you have what suits you, you need a friend to help out flet's not monkey around here, or should we?). Then you need into on Elves. Someone dead might know about this (I wonder if her name is Morgana?). You're almost ready, but an ordinary equine but won't do. An addition to the disruise is needed, and it's a real hoot.

The Sheep Double: Poke around in the vicinity of Mrs. Cake's place. Then head for the beach to catch some waves I'm sare you saw a board around here. If you're having trouble haruting ten, you need to stick to it (and I mean that literally).

The Clickie: Not a bite success, but/7 Well, all I'll say is this Variety is the splice of life. Check your inventory and go do it.

Act III

This brings us to Act III, where Rincewind gets to play Death - if he can prove himself up to the job

Black Rober You've dying to know about this one, hub? Well, it might be curtains for you, at that, Let me write that down (oh darn, out of ink).



the questions that she's just answered.

BLOOD SIMPLE What's the easest way to get lour cc's of mouse blood? Read any good Arme Rice books lately?

Riding The Horse: Affect's not only a poin. he's a dine-done. Use that to set him out of the way and guib the bribe. If you've having trouble staving on the horse, answer this ndelle: Why is riding a horse like riding a surfbourd?

Cutting The Come The complicated one. Talk to the lad and get her what she wants, which turns out not to be good enough. Now you have to visit that dark alcove. Haven't seems held source? You know what they say do-at-vourself.

Deja Vu II (Return Of The Hivest): Now you just have to mow the lawn (err, com). Look share here, but theres teacher, and you'll be done in no time.

Art Stuly Co fish honey Voice Of Death: Pretend you're Santa Claus, only aust talk. If you need to get on top, sope maggood comeback for some help

Act IV

This beings us to Act IV, where we, et, put some life back into Death. Let's not think about this one too closely, okay? At least the Acts are getting shorter.

The place to check out is Dielibeybi. This one's really a quicke, although you'll likely have to go in and out of town more than once. You'll need some assatunce in following the prospector. In fact, you need something else to follow the prospector for you. If he's armed, that will be a great help.

Act V

So we come to the totally superfluous Act V, which is even shorter All you really have to do here is look around at everything and every one, talk to a couple of people; ffI up, and take to the skies. What could be simpler that that?

> And that's about it for now. In the meantime, if you need help with an adventure same, you can reach me in all the usual ways. Plus, be sure to check out my new Web site! Until pest time, happy adventume, &

World Wide Web: Scorpes's Domain at www.scorpia.com (a subscription service) ADL: Scorpia's Lair (leaword scorps) Internet: scorpse@ed com or scorpia (Recorpia.com.

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Magic: The Gathering

Tips and Tactics for the Budding Sorcerer in Magic: The Gathering

by Bob Proctor

here are few strategy games like MicroProse's MACIO THE CATHERING where you can get so much garring for your dollar You can spend handreds of hours in either the Duel covironmentconstructing a deck and trying to run the Cauriet - or in Shandaka, the adventore/earnpaten same. Here are some tips on the latter.

What Color to Choose?

Early on, you will be ducling creatures with 4-10 lives, and you only have 10 yourself. Duels will be short, and a deck that kills quickly is a most. The best early strategy for all colors is a fast creature deck, with low-cost instants and encharatments. Other strategies would work except that the necessary spells are scoree in Shandaler For example, count startists red deeks have one or no direct changes spells.

Flying creatures are important for offense and defense. Pint Strike and Pumping are better than Landwalk and Protection, which are only useful postest one particular color Imparits like Clarit Carwell, Blood Last, and How from Beyond can be east afterblockers are declared to deliver the all Low-cost greature enchantments can be used to make small esca-

tures bigger than the enemy. Each color has a few unique spells Red: Dwarven Warriors can make your small creatures unblockable. use Feeberathine, Immobation, or Blood Last to recross the danger

Black: Don't overlook the most plentiful anti-creature spells. Weskness and Terror, to the cody point. Green: Elves and Mane Birds are searce at first:

use Wild Crossth for estro voerso White: One of the few useful Astral cards is Knishts of the Rambow Vale - a 2/1

can be pumped.

creature that costs 2 with A HERO'S OEATH The final disalterize of perfection (color chosen at random), first strike for Land just for extra points, so play accordingly.



kon isn't intended to be winnable. It's



MAZE BY ANY OTHER NAME Wastes hide in the kep recesses of their castles. Sometimes you get lucky: this castle only had three creatures on quard. Be patiently

Unsummon get blockers out of the way: Unstable Mutation provides Willing power, Power Leak is an excellent card since so many decks make heavy use of enchantments

Blue: Twiddle and

Dungeon Crawling By mid-game,

you'll want to get the power cash buried in the dangeons A problem hose is that you get ejected after a single loss, so you can't afford to take chances with mana shortage. My decks are 50 percent manasources (about 40 percent land). Not all mana needs to be colored: make use of Strip Mme and Mishra's Factory.

Many Dungeons have a special condition that life lower carry over from one duel to the next. So being able to gain life is crucial. All colors except Red have such spelly (although Blue is pretty weak). Here's the complete list those in red are X spells that can use all that "extra" mone

Black: Drun Life, El Hajiya Blue: Relic Bird, Lifetap (only arginst excent)

Green: Stream of Life, Rebirth White: Alabaster Potion, Healing Salve, Spirit Link,

Revesse Damase. Artifacts: hory Tower, Onn'et, the five "lucky charms" (one for each color)

The last tip for dangeons and castles is to find out what card starts to play. Your opponent will always have an enchantment or creature in play to start the duel - you must know what it is With castles, you can go in, find out, and leave to peepase a revised deck, but Dangeons go away when you leave, so you only have one chance - set the clac first Taking an all-black deck in and finding Konna in play is not fun, whereas the same deck with a Bad Moon out is pretty cony &



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Adventure/RPG

Leisure Suit Larry 7: Love For Sail

ertainly there can't be anything more pathetic than wanture to look at made circums of 2D cartoon women. Nevertheless, as a public service for those with no pride, here's a list of just some of the caster eggs in Larson: Suri Lapse 7: Love For Sail.



1. Go to the Clothing Octional Pool. chekon the Pesky Branch covering Drew Baringmore's chost Scient "Other," and type "rosh." 2. In Captain Queer's Ballroom. chick on Larry, select "Other."

and type "dream." 3. After the laye's performance, an backstore, click on the mixing table, select "Other," and type "Feel "Then go to Drow Bestmenoon and tolk short Artist Roller ing some real women, studbow

4. In the library, click on the stuffed beaver, select "Other" and then type "milk " Proceed to the Jury's dressing room for your big thrill. 5. After felling Ameterle Berning, en back to Appette's morn. Before marking the doorbell, elick on the crotch of the third male statue, select "Other," and then type "Unsip" Now ring the doorbell. There's actually more, but that's quite enough, don't you think? Now try meet.

Action

Interstate '76



s one of the hottest games this year, INTERSTOCIE '76 is busy satisfying our action addiction. However, if the same is getting too tough for you, type in this cheat code to jump levels: Gid-Shift-GETDOWN

All the enemies in the level will converge on you, but once they kill you, you'll furno to the next level.

Helicops

If you want more depth, check out INTERSISTS 76 or ACHIMICIEAN DYNASTY



But 7th Level's believesters based action shooter is a good time if you are into fastpaced, mindless fun. To that end, here are some chest codes to help you through the come wave. Type these cheats in at any time during samenky: Aronman Makes you invincible.

Atagowin Automatically completes commit mission

Strategy/Wargames **Admiral Sea Battles**

If hile this game can be fare, its lack of mulism makes PANZER GERNEN, look No Wischt Are Riberts by comparison Your best bet is to unlearn anything you know concertifie real neval tactics. For example, the best defense to prevent the enemy from eap turns your ships is to keep them in page. Only two sliges will fit in a square, and if both vessels in that square are yours, then no enemy can enter or board. Wonder what Nelson would have thought?



Red Alert

If fromive placed RED ALERO colling, you've likely fallen prey to the informous Soviet Toris. Rush. Since the designers wanted to avoid small-arms fire being able to take out armor (as in C&C), building infantry isn't much help. Also, since the design prizes mobility, smply going on the passive defense doesn't help. What you have to do, to narrelense Gen.

Simulation/Space

IM1A2 Ahrams

· Advance to contact to a woder. This gives was flank protection as well as a good forward field of fire. Co into echelon toward known threats, and runnley line formations.

only for defense. · Infantry will deploy when their earriers halt and will only move with canters. Make

them your backston forces. . Know your vehicles, read the data charts. The best American AA weapons, other than special units, are APCs with Stringers, so use them against those enemy Hards. . If you stop when ordered to, you may incur a victory point penalty, despite what



your communications data says. Make sure to play missions to the very end. . While it might seem obvious, use terrain to your advantage. Above all, tenst your expner. Don't play Davy Crockett when com-

manding a plateon or company · Rocket artillery is devestating but takes longer to re-lead. Use morters and 15% for caulious slowerkeners and defense - Ass Cobb

Sports





Since there's currently no kirk-ass soccer currer on the market (both FIFA and Micaosper Socces lesse a let to be desired), why don't you try a kick-head soccer game instead? A group of deranged folks who go by the name of Osports have come up with a free OUNE add-on caffed OSOCCERthat lets you play the world's most popular sport with a whole new twist. You kick a severed head instead of a secondull. Though this sounds like more of a ginnmick them a game, the multipliver matches can be average fun-(though we wish you took damage hits for shin kieled. Be on the lookout for Version 4, which promises to add a working referre to the match. One question; will we get to kill him? You can find OSOCCER at www.

phnetauke.com/gcs/gs

Puzzies/Classics Marble Oron

f you find you're spending all your hard-comed points buying back marbles in Maxis' MARKE DROP, here's one way to get your bank bolunce back up. On certain paodes, such as IS Democratic if you quickly drop a bunch of marbles one after the other into all the available funnels, pretty soon they'll start bouncing around in pernetual motion. Every time a murble hits the crossbow you garn ten points. We left the program running for a while and returned to a score of 50,000 points. You'll want to



2. but when you do your newly apprired high score will remain intact.



than done, of course. The key is to recognize that the combat algo-

office in Rep. At FRU chie a base freezewer edge. both in terms of accuracy and damage, to stafigure units So, position nows of tanks with their felds of the courses the most obvious mercus

apportant formation with overwhehring fire You don't have to worry about the angles of your shots, became RED ALEKT (ordike say, Street, Postmanas) doesn't model front/skledear armor differences. If your eremy stubbornby persists in fettle attenuets to punch through your defenses, you'll have time to

weether the lead tanks of your

X-COM: UFO Defense II II II ith the se-selesse of X-COM as part of

MicoProg' CONDUERTHE UNIVERSE collection (see Terry Coleman's Stertone Warrance column this usue).

there's been an upsurge of interest in this Hall of Fame title. If you're having trouble wineiting at the bigber levels of difficulty. check out the unofficial X-CoM Web site at www.franken.de/users/speeds/haksn/ hobbies/daddel/scom/Welcome-e.html. It's worth typing this ridiculously long URL to get the easy-to-use utilities, which include editors for weapons, soldier and base stats,







Simulation/Space

F/A-18 Hornet 3.0

C raphic Structures of I/A-18 PLOUSET 3 0 is a fun sum, but it finiteyou to Bying just one of the 15 planes it simulates. That is, unless you have the insider codes used by the programmers for debugging the game's missions.

Simply type the codes listed below in the pilot callsign field in the following format: flyPLANE#8, where PLANE is the aircraft code and #8 is the aircraft ID for that mission.

is the ascent ID for that mission.

Please note that you cannot fly belicopters using this feature, and that the codes only work in specific missions. Also keep in mind that

these codes are designed for the release version of the game,

not the demo version.

Because this feature was designed for debugging purposes, you'll find

that some planes eshabit quirky behaviors. For example, if you engage the antopiet, the computer will take control of the plane. Also, the plane may occasionally the control facility. And aircraft may no longer tast on their own, even with autopidet on.

This Faster egg is not officially supported by CSC, and they kindly request you don't bother tech support with problems about flying the B-52.







Aircraft Key

- A10A = Fairchild Republic A-10A Thunderboll & #MAC = Bosine E3A Senty (#MACS)
- B52G = Boeing B52G Stratofortress B727 = Boeing 727
- B727 = Boeing 727 E2CA = Gramman E-2C Haulone
- F117 = Lockheed F-117A Nighthawk FA18 = McDonnell Douglas FIA-18C Hornel
- OC10 = Douglas DC-10
 MG21 = Micron Gurwich MG-21MF Fishhad
- MG23 = Mixoyan Gurevich MG 23S Flogger MG27 = Mixoyan Gurevich MG-27 Flogger-D
 - SU27 = Suitho Su 27UB Flanter TU20 = Tupelov Tu-20 Bear-G

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Cerrier Operations	T003	FA18-00	FA13CE	SN18/02	. CCTO	00100	8727.00	8727 00	ANAC GO	
Mavigation & Radar	T004	BA18-00	FA18-01	FA18.02	DC:# 00	001001	B727-00	8727.01	AMAC 00	
Air-to-Ground	1005	BU800	H.1841.	8118.02	X684C-00					
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Tanks Reyway	M-226	FA:18-00	EA18-01	FA.18 02	FA18 08	ESCY00	M02300	\$127.00	9,2741	
Hole In One	N-225	FA.18-00	EA18-01	FA18 02	14623-00	SU27 0	SU270s	SU27 02		
Burning Waters	M 224	FA18-00	E418-01	FA.18 02	FA18-03	E201.00	MG29-80	MG23-01	9127-00	
Bad Waters	M-223	FA.18-00	EA18-01	FA18-02	FA18-03	E20A00	9,127-00	SUZTER	ME2300	
Hight Threat	M-222	FA18-00	EA18-01	FA 18 02	FA18-03	E20A 00	9,127.00	SU2/ 81	ME23 00	
Chapper Kag	M 221	FA18-00	EX:(60)	FA 18 02	10023 00	M033 00	SJ2700	SU27 01		
The Bridge	M 220	FA18-00	EX.18-01	FA18 02	FA18 00	E20A-00	M029-00	ME23 01	\$127-00	
Hight Hawk	M 219	FA13-05	EA.18-81	FAVB 02	F117.00	F117-01	M32100	ME23 0t	5007-00	
Nigh Flyer	M 218	FA18-05	E1.18-01	FA 18 02	A10A00	A90A01	ME23-00	ME33 0t	91/27/00	
Surf's Up	M 217	FA18-05	EI.18-01	FA18-02	A104-00	6525 00	M02340	M023 01	902700	
Turkey Shoot	M 215	FA18-00	EL18 01	FA.18-02	ESCA 00	M021-00	MQ2100	M03300	M623-01	
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FA13-06

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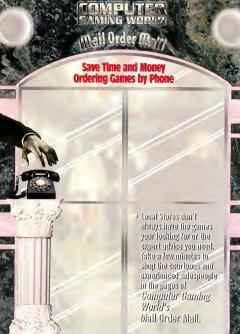
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Warm Welcome	FA13 00	BUB01	FA18-02	F10700	M92100	MG2501	ME23-00	TU2000
Bomber Fixe	14207	E4,18-00	FA18 01	FA18-02	B52G-00	M92100	MG2101	MG28 00
Duck Hunt	10206	E418-00	EASE-OI	FA18-02	MG2100	M32101	MS2360	
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PAGE

238-239

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293	Accolade	Hard Bill 6	3-3	296	Men	Streets of SirgCdy	204-205
290	Acodele	Jack Nickless	CSC7	295	Medi	Tony La Rassa 4	15
F/2	ACTLaboratow Ltd	Power Rang Mito	109	163	MCAMAIntencive	Machine Hauter	65
148	Activities	Dad Story	3.9	100	Micron Electrones, Inc.	Million & Horse MPC	123-123
100	Activison	Fighter Squadros	106-807	195	MonPose	SurTuk-Generators	199
140	Activison	Bornil	22.53	71	Micro/rese	X-COM/specifyee	173
365	Admion	Intendate 76	214		Microsoft	The Zoos	1941
HT	Activison	Notoru	102.113	132	Mindeane	Agents Refs	224
146	Activism	Twassers Odyney	158-159	131	Medicae	Contant	290
142	Attition	Zeek Cound Impandor	0505	45	MENCE	3D Socileri	19
391	Abaneof Greats	The Blackhard	Bi	360	NEC Electronies Inc	Power VR	132433
106	ATTichnique	ATTRagePay	3	143	NewWorldComparing	Hence II	80
MS	Action Mil Core Compare	Achture Spirite	B	104	New World Comparing	Melt & Mark W	16-17
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the records, established the benchmarks, and held gamers in delighted trances for hours untold.

HIGHLIGHTS

MIGHT AND MAGIC

New World Computing, 1986 he Migitt wio Mygic role-playing

series is now one of the most beloved of the genre, but its roots are humble indeed. Jon van Canegham, a self-taught programmer and RPG tan who had never made a game before, took upon himself

elcome to the Cooperstown of Computer Games. Here

the task of creating an RPG that would stand up to the plants of the day. the Ucrow and Wizason games. He did it almost all himself-the story. the programming, the computer graphics, the manual-and the result was an epic RPG that more than accomplished his ambitious goal. Although the game looks primifive by today's standards. Might win Masic's 3D graphics were effective and original at the time, and helped create a distinct look for the universe that has persisted throughout the evolution of the series. Also present in van Canegham's first game are the foundations of the series' enduringly engaging combat and spell systems, as well as an emphasis on exploration and plot advancement (in addition to the usual hack 'n' stash) that became a hallmark of all Mauri AND MAGIC carries. As we look forward to Might Ann Masic VI. due at the end of this year, it's worth pausing to salute the original chapter of van Canegham's epic work, which has had the might to stand sword-tosword with the giant franchises of the genre, and the magic to enchant gamers into playing far later into the night than has been good for us, as

M.U.L.E.

Electronic Arts, 1983 in the early '80s, Caprels & Cutthrouts was

all the rage. But when asked to create a CARTELS clone for EA. Dani Berry Ohen Don Bunten) decided-luckily for gamers-to throw away the template. Burden created an environment

where four players would try to explore and colonize another planet using a M.U.L.E., the robotic "mule" that enables you to farm, mine.

transport equipment, and perform any other function you wish to perform on the planet's surface. Somehow Burden managed to seamlessly merge elements of econom-

ics, from supply and demand to the hassles of production and storage. into a tense four-player exploration and strategy game, M.U.L.E. was the landmark for multi-player hotseat play, because to win, you had to ruthlessly drive all other players out of business-sort of Monopoly meets Dank Side of the Moon. The game contains no bombs, guns, or missiles. It just offers an exciting game of culturcol competition complete with five auction action that actually makes economics fun. With a straightforward, humorous interface years ahead of its time, we can only speculate on how much fun M.U.L.E. might have been vio modern. Because EA could never manage to come out with a sequel, many of us held on to our C-64s and Atan Bibits just to play this, still the best-and most balancedmultiplayer game we've ever seen.

Inductees Prior To 1989 Berns Cress (Interplay Productions, 1988) CHESSMASTER (The Software Toolworks, 1986) DENCESH MASTER (FTL SOTTWARE, 1987) EMPIRE (Interstel, 1978)

we seek out just one more town. one more manical fountain, one more treasure chest full of gold.

EAST, WENNER BASEFALL (Electronic Arts. 1986) F-19 STEADIN FORTER (I/AcroProse, 1986) GETTYSBREET THE TURBEST PORT (SSL 1986) Kampronappe (Strategic Simulations, 1985) Mick Beause (Strategic Simulations, 1985) Meter & Masse (New World Computing, 1985) M.U.L.E. (Flectronic Arts. 1933) Partes (MicroProse, 1987) SINCITY (Mode, 1987) Symptopar (Electronic Arts, 1986) THE BARO'S TALE (Electronic Arts, 1985) Umma III (Onem Systems, 1983) Umwa IV (Ongin Systems, 1985) Was in Ressin (Strategic Simulations, 1984)

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Software, 1993) reu 3.D sectrum HoloByte, 1991) HT PAGE SPORTS FOOTBALL PHO MacmPross, 1989

(Three-Shoty Pacific, 1989) Civa's Quest V (Sierra On-Line, 1990) Psygnosis, 1991) Lisas 386 Pap (Access Software, 1992) M-1 Task Platon MASTER OF MAGIC

MASTER OF DELCAS MicroProse, 1993) HOME TWOON

Sie Meien's Civiliza IS SECRET OF MONNEY ISLAND casArts, 1990)

(Origin Systems, 1992) Wees Communes I, II, & III (Origin Systems, 1930-91) витенятии 3-0

(MicroProse, 1994)

omputer game programs have grown so massive, and the number of hardware configurations has become so hupe. that incompatibilities and glitches are frustratingly common.

A-10 Cohat: Larest uppgarte allows you to reverse the rudder settings. mass Enter or ESC without problems, and even center your joystick What's more the original A 10 Qual senal numbers now work.

Ape of Rifles V1.3: Commanders will find campaigning much facilitated by the variety of command control tweaks, sparano enhancements, and casualty rate adjustments, among other fixes. Be sure to reconnoiter the exhaustne READ ME tile.

Age of Sail V1.05: Bow/stern chasers no longer reload after being destroyed. There are also improve ments to the ship regain rules.

Air Warrior II V1.01a: This is the latest upgrade for better multi-

player furballs. Battleground Shiloh V1.1: Winner of CGW's best wargame is

improved even more by this latest unorarite which includes Al biesks and more realistic casualty rates Battleship V1.1: Hastro's ship finally salls as it should have, with

many of the multiplayer and timing issues solved by this petch. Blood & Magic V1.01: As Aleric the Avencer on Level 3, you should no longer have the problem when

the Brigard is attacked after the game is saved. Modern and Direct Link performance is improved. Capitalism For Mac V1.1: Both Mac and Power PC users will find the good to capitalistic righes a

smoother ride with this archive. Cave Wars V1.20: Godmode buos are banished, and you may now select the number of levels to playa boon for shorter games. Plus, any video card problems are banished.

Oaggerfall V1.07.213: Another welcome patch for Bethesda's award-withing RPG.

Diable V1.03: Dunceon delvers of all persuasions will benefit from this upgrade No longer can flegal spells

be cast in town, and this patch ends dunicate fem generation at the Blacksmith and Witch within the same game. Game speed, latercy, and packet loss issues over the Internet are also much improved.

Interstate 76 V1.05: More than a dozen foces make this the Nonest. baddest multi-melee around-especially since the host no longer gets double kits.

JetFighter III Update 1: New wross for Mission Studios' flote sim, including better throttlekrudderlygystick calibration, support for sound in Windows 95, sound board autodetect, programmable joystick buttons, and more.

MechWarrior 2 For Mac: Mac Merch-spessives new enjoy support for 603e and 604e processors and additional joysticles.

MechWarrior Mercenaries V1.06: Regardless of clan affiliafine all will benefit from this latest uporade, which repairs more 'much deficiencies

MOO II V 1.31: This latest in galactic technology evidently regains much of the damage to the diplomacy model, as well as adding an Inflative-based system

NCAA Championship Baskethalls NEC Systems with Alliance Pro-Motor Video Cards that are experiending lock-ups will find this more

for ship combat.

reheshing than a 30-second timeout Over the Reich V1.01: Gameplay hits a higher ceiling with several adjustments to bomber detensive fire, frequency of remtorcements, angle of interceptions,

high-G maneuvers, and banking. Privateer 2 The Darkening: Since the movie is the best part of the germs, it's mign that this patch solves most at the video difficulties

Tomb Raider: The 3DtX support patch is now tinal, and shows off Software fixes, or "patches," for buggy programs have become a necessary evil until we reach the golden age of standardized niatiorms and hup-free programs. New patches are in red.

Lara Croft's attributes in stunning trob-resolution, complete with mip-mapping and more hotheys.

Wages of War 1.28: Several minor tixes for New World's mer-

cenary strategy game. WarCraft II Oark Portal V1.23 for Mary II your One counts are

"choding" under System 7.5.5 or 7.5.3, this patch is as welcome as a new magic spet. It also solves CD-ROM competibility problems, audio teechack diferrmas on PerformattC 57x series Macs, and a host of saved come difficulties. If supports 256+ zones on an Apple Talk network.

War Wind V1.2: KALI-compatible, LAN and triernet-enhanced version of SSI's strategy game.

Wooden Strips & Iron Men V1.02: Safing mo battle with 8MB RAM is now a breeze





see listing below).

oftware publisher's Web site

Publisher Web Sites

Many patches are available from the publishers at the following sites:

Accolade: www.accolade.com Activision: www.act/wsion.com Annose/3d Realms: prewancoses.com Avalon Hill: www.avalorhifl.com

Bethesda: www.bethsofl.com Big Time Software: www.bigtimesoftware.com

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> Interactive Magic: www.imagicgames.com Interplay: www.interplay.com Jane's Combat Simulations: www.janes.ea.com

LucasArts: www.lucasarts.com MicroProse/Spectrum HoloByte: www.microprose.com

Microsoft: www.microsoft.com New World Computing: www.nwoomguting.com Origina WWW.origin.ea.com

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What's the Deal with. Sick Ads?

namally, this this column from is the one where the was mind to biggest threat to young adults are he a sequel other young adults, and every legislato last year's for on the planet who can't think of "Dumb Ads" anything useful to do is looking to find nmulco an easy goal to blame, and to pass we another with another dumb-ass law to fix things. Office road

ZZ I can't imagine how a group of adults decides that using the word 'douche-

clever idea ??

Recordings of how tasteless and just plain stupid that kind of "serial littler chic" ad copy is, ign't anybody paying attention to the news? Do these people, who think crap like this will sell games for online time, as the case may be here), have some sort of brain-damage that keeps current political exents from sinking in? Are they unclear on the tact that people out there are so desperate for easy answers (and easy targets), that you can't find a political being anywhere witing to stand up and say the VChin

I hate to break it to anyone, but computer gaming is still out on the tringe of society-and when push cornes to shove, we aren't any safer than lestion votested abvers or communist Boy Scout leaders when the crypto fascists with an agenta come looking for somebody to blame for the "dire state of today's youth." Nobody is going to bother with sub-Settes like dead-end poverty and sporetal confudictions when some quy can stand up and say. "Lookee here

Bubba, this ad says if II make kids into psycho killers, somebody oughtta do something about frist" Do you think that way back in 1980, when Torriny Hanks was getfing work portraving a crassel college Dungeon Master on TV, and every reverend on the tube was burning ADAD manuals, that TSR would have been mot smert to run tull page acis.

to the effect of, "Hey adolescents! We know what you REALLY want to do is stati people in the back and steal their anid warsten Panan myte datable in dark waterf sproary and have loss of sox with over endowed people in fur underspart Buy a D&D starter set and 1GU could do all this and mont?? Money-crowd Internet activere-

neurs may think the past can't louch them, but all you have to do is look at the ratings on computer game boxes to realize how easily our hobby can be clubbed by the mismormed. Given the current state of politics, a retaylor hamster could walk into Concress

with the Kali aci, that delightful Re-LOVEED campaign, and a few pics of ours hiro around in bathtubs of blood, and our liffle hobby would be requiated back to Pons. White I wouldn't mind the erartication of a texbritiniess shooters. Lam not so should as to think that it wouldn't take only a few more days before strat games using rules and thight sims where you can fly German or Aussian aircraft were trund "inarrow-rists." I you think I am being hysterical, or just not "getting the jake," go down to the Nasary, check out a little paramoid. gern called Seduction of the Invacent and look up the artistic honor that was the Corries Code Authority Seal

it's part of evolution that computer coming has to be put at risk by the Morne Kowsers and the Neur Taxon but we shouldn't have to be put in danger of being tegislated to a level of morality that would bore an 8-yearold, just because some idiols have decided that violence is all that calls games. And it companies can't sense the chill in the air then nor. haps measzines. CGW included. should have the guts to see turther than the power of the Almighty Buck and start sending a tey ads (and chitck3) back with a little note saving

"get a one and try again," After all there won't be much test for anybody it we have to try to bit garring magazines with 10-code strategy guides for the Tigger Goreappropriate Lawrence 27 \$

pointing out which companies really need a slep in the PR department, and perhaps a little musing about how ad proposal meetings must be going much better with cole-they must be because I can't imagine how etse a group of adults decides that using the word "doughe bag" is a clever and No idea And then I stumbled across this

everything just tumbled into place. had' is a My whole discust and toathing over the encless violence and gove ads crystalized when I read their ad and realized that poor taste could be the

least of our problems. "In present interviews, associated the aften speak of the incredible power that comes from folling another human being. You're a lot obser to being interviewed than you'd life. people to know "

liftle corm from the kids at Keli, and

Now Kat is a cool net reasons seevice, and I am sure evenione working frere is very hipper-than-than, but t really have to ask them one question: What the hell were you people frinking when you OK'd this rule made of trine? Are use living in the same dimension here? Because the one I am writing

is the worst idea since plutonum? Company General Works (ISSN \$2744-6665) in pulsarines married by Jul Grade Citie Price Journal, New York, NY 10016 Subscription with in \$27 \$27 for a new york subscription (12 marcs). Curvetia and all other countries and \$10 to be series and Pederate Serial address drongs to Camputer Serial (Serial Serial Ser Pub's Mail Product (Caredia Chathubon) Sales Agreement No. 196644. Percolusis postage part at New York, NY 10016 and addressed molecular protein Person #575-010. Proteind in the U.S.A.

Jack Nicklaus 4



"...the preeminent golf simulation of our time ...an absolute model of perfection ...one of the most well-crafted games of any genre · that I've seen in years" Computer Gaming

"a superb piece of work powerful, full-featured, gorgeous and fun...it will undoubtedly rule, its category for some time to come" L. Liam McDonald

"...gives Links LS a run for its money." Strategy Plus

The Course Designer



This is the Course Designer that created all 5 Nicklaus-designed courses in the game!
Use the Designer to re-create your favorite course! Import, modify, and play courses

from previous Nicklaus games!

From Tee to Green



Challenge golfing legend Jack Nicklaus – The Golfer of the Century – on one of his own signature courses!

Play with friends across the room or around the world via serial, modem, LAN, and the internet!



"Jack Nicklaus 4 provides a rich, wonderful, involving experience ...the Course Designer is so much fun, it could almost be a game unto itself."

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"The Course Designer is a landmark!"

"A truly revolutionary product. Links finally has some stiff competition."

"..impressive..."

Featuring Colleton River Plantation, Country Club of the South, Muirfield Village, Cabo del Sol, and Winding Springs.

The Course Designer



The first the best desired of the second of

Green et Cour the South. Th the image is f Course Design half of the Images



Click and drag on its shape

Chick and drag on its shape Of the Chick

he result, a new burner

The Hola View of the I

Choose from over 100 different types of

From Tee to Green The Tee Shot



displays are optionalleave them off for the

The fastest redraw times

camera to

landing in

The Approach Shot



New "Intensity Control" reproduces the dynamics thet shope the shot, "Club up and swing easy" for control or a low trajectory; "swing hard" when you went spin and distance.







Multiplayer play is fully supported including recorded rounds, shared keyboard, serial, modem, LAN and internet play.



Weether can shange in the middle of the natural wind variations and every possible turf condition add to the shellengel

Around The Green



For enhanced gameplay, this optional

you read the contour. Look for the Jack Nicklaus 4 playable demos in select magazines, online at http://www.accolade.com

Our new makes putting

more realistic. Mow lines on

the green help

or at your local retailer. For hints and tips on Accolade products, call Accolade Direct 1-900-454-HINT. \$0.99/minute. If you are under 18, please get your parents' permission

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Rodrigo
Extortionist, City of Nujel'm
Uses magic for unsavory torture.
Lives with his mother.



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